





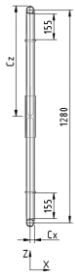
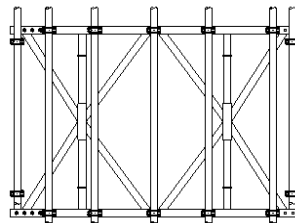
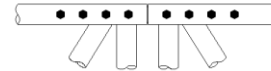


Article	Image	Description	Weight
BD0550		ASTERIX HD Aluminium Beam 0.55m	6.33 kg
BD1000		ASTERIX HD Aluminium Beam 1.0m	13.33 kg
BD2000		ASTERIX HD Aluminium Beam 2.0m	22.60 kg
BD3000		ASTERIX HD Aluminium Beam 3.0m	31.87 kg
BD4000		ASTERIX HD Aluminium Beam 4.0m	41.13 kg
BS0006		ASTERIX HD Beam Spigot 8HS	1.50 kg

Cross section:


Cx: 2.415 cm
 Cz: 66.415 cm
 Ax: 12.3 cm²
 Ixx: 50451.7 cm⁴
 Izz: 29.9 cm⁴

Puncheon locations:

Connections:


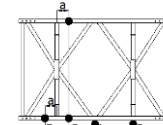
Spigot BS0006 plus
 8xAF0007 M12x60 G8.8 Bolts
 or
 8xAF0001 M12x60 Quick release pin

Permissible bending moment (kNm):

Joint, 1 bolt each side, all lacing intervals:-	31.21
Joint, 2 bolts each side, all lacing intervals:-	62.42
Joint, 3 bolts each side, all lacing intervals:-	93.63
Joint, 4 bolts each side, all lacing intervals:-	124.74
Compression chord lacing at 1.0m c/c :-	102.20
Compression chord lacing at 1.5m c/c :-	77.70

Permissible reaction (kN):

Supported:-	
A) Directly under diagonals	32.60
B) Directly under a post	32.60
C) On two chords**	42.1-(76a)
D) On one chord**	23.7-(55a)



**a=Distance in metres from nearest node to point of support. 0.05 ≤ a ≤ 0.23

Safe loads(based on support condition B):
Compression chord lacing at 1.0m c/c (See note 7) :-

		Span (m)				
		4.0	8.0	12.0	16.0	20.0
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

Compression chord lacing at 1.5m c/c (See note 7):-

		Span (m)				
		4.0	8.0	12.0	16.0	20.0
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:

- 1a. Safe load data given for guidance only and assumes simple supports each end.
- 1b. Safe load data tables based on global member capacities, local forces should be assessed specifically by project.
2. This TI sheet is to be read in conjunction with the Beam User Guide USG001.
3. Material specification for all members EN AW 6082 T6.
4. Data provided is calculated in accordance with EN 1999 and factored to EN 12811.
5. Data provided assumes connection using DESSA steel spigot BS0006, secured using 8no. G8.8 M12x60 Bolts with nut.
6. All loads must be applied across 2 chords within 150mm from a node point.
7. All supports must have a minimum width of 35mm.
8. Lacing tubes must be connected using a minimum 3kN connection.