

TECHNICAL INFORMATION

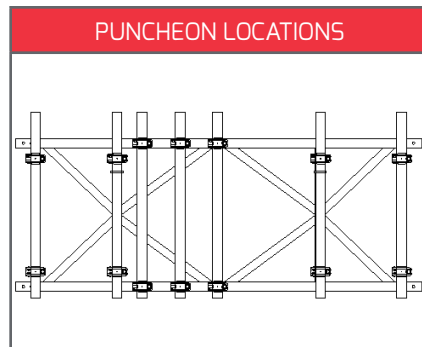
ASTERIX BEAM

TIS14002-

ARTICLE	IMAGE	DESCRIPTION	kg
BC0018		ASTERIX ridge beam 18°	9.5
BC0036		ASTERIX ridge beam 36°	9.9
BC0118		ASTERIX eaves beam 0.75x18°	7.4
BC0600		ASTERIX aluminium beam 0.75x0.6m	4.8
BC1000		ASTERIX aluminium beam 0.75x1.0m	7.9

ARTICLE	IMAGE	DESCRIPTION	kg
BC2000		ASTERIX aluminium beam 0.75x2.0m	13.9
BC3000		ASTERIX aluminium beam 0.75x3.0m	19.8
BC4000		ASTERIX aluminium beam 0.75x4.0m	25.7
BC5000		ASTERIX aluminium beam 0.75x5.0m	31.7
BC6000		ASTERIX aluminium beam 0.75x6.0m	37.6
BS0005		BS0005 6HS	0.72

CROSS SECTIONAL PROPERTIES	
	<p>Cx: 2.415 cm Cz: 37.52 cm Ax: 12.3 cm² Ixx: 15195.9 cm⁴ Izz: 29.9 cm⁴</p>



CONNECTIONS	
	4xPin AF0001 Spigot BS0005
	4xPin AF0001 Spigot BS0005
	6xPin AF0001 Spigot BS0005

PERMISSIBLE BENDING MOMENT (kNm):	
Joint, 1 bolt each side, all lacing intervals (not recommended)	17.20
Joint, 2 bolts each side, all lacing intervals	34.20
Joint, 3 bolts each side, all lacing intervals	51.30
Beam, compression chord lacing at 1.0m c/c ^(See Note 9)	41.31 (requires 6 bolts total at each joint)
Beam, compression chord lacing at 1.2m c/c ^(See Note 9)	35.60 (requires 6 bolts total at each joint)
PERMISSIBLE SHEAR FORCE (kN)-ALL RESTRAINT INTERVALS :	23.73

COMPRESSION CHORD LACING AT 1.0-1.3m C/C		SPAN (m)				
		4.0	6.0	8.0	10.0	12.0
UNIFORM LOAD	(kN/m)	15.82	9.48	6.72	4.05	2.26
	Deflection (mm)	4.96	15.04	33.69	49.58	57.42
SINGLE POINT LOAD AT MID SPAN	(kN)	23.70	23.70	23.52	18.23	13.57
	Deflection (mm)	2.97	10.03	23.58	35.70	45.94
TWO POINT LOADS AT THIRD SPANS	(kN)	23.70	23.70	17.64	13.67	10.18
	Deflection (mm)	5.06	17.08	30.13	45.61	58.70
THREE POINT LOAD AT QUARTER SPANS	(kN)	15.82	15.80	11.76	9.11	6.79
	Deflection (mm)	4.71	15.87	28.00	42.39	54.55

MAXIMUM SINGLE POINT LOAD LIMITED TO 23.7kN ACROSS 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 U5G001.
3. Data provided is calculated in accordance with EN 1999 and factored to EN 12811.
4. Data provided assumes spigoted connections using DESSA steel spigot BS0005.
5. All spigoted connections secured using quick release pin AF0001 or G8.8 M12x60 Bolt with nut AF0007
6. All loads must be applied at node points.
7. All supports must have a minimum width of 35mm.
8. Lacing tubes must be connected using a minimum 3kN connection.
9. For 4 bolt connections joint moment is decisive. Higher values may only be used where joint positions can be planned.

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