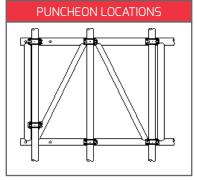


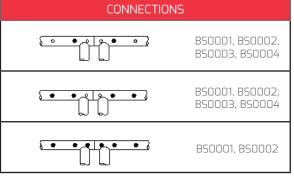
TECHNICAL INFORMATION D78 ALUMINIUM SCAFFOLD BEAM TIS17001A

ARTICLE	IMAGE	DESCRIPTION	WEIGHT (kg)
BA0018		D78 Ridge 18°	7.50
BA0036		D78 Ridge 36°	11.10
BA0118		D78 Eaves Beam	5.75
BA1000		D78 Beam 1.0m	6.34
BA2000		D78 Beam 2.0m	11.63
BA3000		D78 Beam 3.0m	16.92

IMAGE	DESCRIPTION	WEIGHT (kg)
	D78 Beam 4.0m	22.21
	D78 Beam 5.0m	27.50
	D78 Beam 6.0m	32.80
	D78 Spigot 6HS	1.41
())	D78 Spigot 4HS	1.44
		D78 Beam 4.0m D78 Beam 5.0m D78 Beam 6.0m D78 Spigot 6HS

CX: 2.415 cm Cz: 36.60 cm Ax: 12.3 cm² lxx: 16519.9 cm⁴ lzz: 29.9 cm⁴





PERMISSIBLE BENDING MOME	PERMISSIBLE SHEAR FORCE (kN)			
Joint, 1 bolt each side, all lacing intervals (not recommended) :	18.80	All receives into internals.	23.71	
Joint, 2 bolts each side, all lacing intervals : 36.70		All restraint intervals :	Z3./	
Joint, 3 bolts each side, all lacing intervals : 54.50		MAXIMUM SINGLE POINT LOAD		
Beam, compression chord lacing at 1.0m c/c ^(See Note 9) :	38.84 * req. 6 bolts total at each joint	LIMITED TO 23.7kN ACROSS AL LOAD CONDITIONS.		
Beam, compression chord lacing at 1.2m c/c ^(See Note 9) :	31.86 * req. 4 bolts total at each joint			

COMPRESSION CHORD LACING AT 1.0-1.3M C/C			SPAN (m)			
COMPRESSION CHORD LACING AT 1.0-1.5W C/C		4.0	6.0	8.0	10.0	12.0
UNIFORM LOAD	(kN/m)	11.86	7.89	4.83	3.08	2.13
	Deflection (mm)	3.42	11.52	22.26	34.64	49.62
SINGLE POINT LOAD AT MID SPAN	(kN)	23.70	23.70	19.31	15.38	12.75
SINGLE POINT LOAD AT MID SPAN	Deflection (mm)	2.73	9.22	17.81	27.71	39.70
TWO POINT LOADS AT THIRD SPANS	(kN)	23.70	19.37	14.48	11.54	9.56
I WO POINT LOADS AT THIRD SPAINS	Deflection (mm)	4.66	12.84	22.76	35.41	50.72
THREE POINT LOAD AT QUARTER SPANS	(kN)	15.81	12.92	9.66	7.69	6.38
I TREE POINT LOAD AT QUARTER SPAINS	Deflection (mm)	4.33	11.94	21.15	32.91	47.14

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 USGOO1.
- 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 BS0001 or BS0003 or aluminium B0002, B0004.
- 5. All spigoted connections secured using quick release pin AF0001 or G8.8 M12x60 Bolt with nut AF0007
- 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.
- 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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