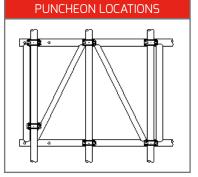


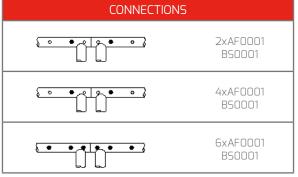
TECHNICAL INFORMATION D78 ALUMINIUM SCAFFOLD BEAM TIS17001C

ARTICLE	IMAGE	DESCRIPTION	WEIGHT (kg)
BA0018		D78 Ridge 18°	7.68
BA0036		D78 Ridge 36°	10.92
BA0118		D78 Eaves Beam	5.61
BA1000		D78 Beam 1.0m	6.35
BA2000		D78 Beam 2.0m	11.52

ARTICLE	IMAGE	DESCRIPTION	WEIGHT (kg)
BA3000		D78 Beam 3.0m	16.82
BA4000		D78 Beam 4.0m	22.14
BA5000		D78 Beam 5.0m	27.62
BA6000		D78 Beam 6.0m	32.67
BS0001		D78 Spigot 6HS	1.41

CROSS SECTIONAL PROPERTIES Cx: 2.415 cm Cz: 36.60 cm Ax: 12.3 cm² lxx: 16519.9 cm⁴ lzz: 29.9 cm⁴ E: 70,000 N/mm²





PERMISSIBLE BENDING MOME	PERMISSIBLE SHEAR FORCE (kN)			
Joint, 1 bolt each side, all lacing intervals (not recommended) :	18.80	All control in bind on all a	22.71	
Joint, 2 bolts each side, all lacing intervals:	36.70	All restraint intervals :	23.71	
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 IX) :	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 IX) :	31.86 * req. 4 bolts total at each joint			

COMPRECEION CLIORD LACING AT 1 O 1 DM C/C SEENOTE VIII			SPAN (m)				
COMPRESSION CHORD LACING AT 1.0-1.3M C/C SEE NOTE VIII		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 SPANS	Deflection (mm)	4.66	12.84	22.76	35.41	50.72	
THREE DOINT LOAD AT OLIADTED CRANC	(kN)	15.81	12.92	9.66	7.69	6.38	
THREE POINT LOAD AT QUARTER SPANS	Deflection (mm)	4.33	11.94	21.15	32.91	47.14	

NOTES

- i) Safe load data given for guidance only and assumes simple supports each end. Based on global member capacities, local forces should be assessed.
- ii) This TI sheet is to be read in conjunction with the Beam User Guide USGOO1.
- iii) Material specification for all members EN AW 6082 T6.
- iv) Data provided is calculated in accordance with EN 1999-1-1:2007+A2:2013 using net load factor of 1.65 and factored to EN 12811.
- v) Data provided assumes connection using DESSA steel spigot BS0001, secured using 6no. G8.8 M12x60 Bolts with nut.
- vi) All loads must be applied across 2 chords within 150mm from a node point.
- vii) All supports must have a minimum width of 35mm.
- viii) 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 BS 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.
- ix) For 4 bolt connections joint moment is decisive. Higher values may only be used where joint positions can be planned.

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