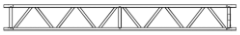
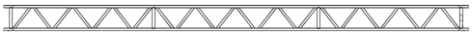
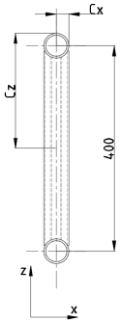
TECHNICAL INFORMATION

L45 Aluminium Scaffold Beam

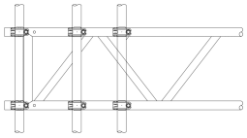
Article	Image	Description	Weight (kg)
BH2000		L45 Aluminium beam 2.0m	8.10
BH3000		L45 Aluminium beam 3.0m	12.15
BH4000		L45 Aluminium beam 4.0m	16.18
BH5000		L45 Aluminium beam 5.0m	20.10
BH6000		L45 Aluminium beam 6.0m	23.94
BH8000		L45 Aluminium beam 8.0m	31.70
BS0011		R Beam spigot 6HA	0.72
BS0012		R Beam spigot 6HS	1.19

Cross section:



Cx: 2.415 cm
Cz: 22.42 cm
Ax: 11.13 cm^2
Ixx: 4481.1 cm^4
Izz: 27.5 cm^4

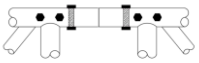
Puncheon locations:



Connections:

a)  2xPin AF0001 Spigot BS0012

b)  4xPin AF0001 Spigot BS0012

c)  6xPin AF0001 Spigot BS0012

Permissible bending moment (kNm):

a) Joint, 1 bolt each side, all lacing intervals(not recommended) :-	9.73	
b) Joint, 2 bolts each side, all lacing intervals :-	18.46	
c) Joint, 3 bolts each side, all lacing intervals :-	27.19	
Beam, compression chord lacing at 1.0m c/c (See Note 9) :-	21.98	* requires 6 bolts min at each joint, c)
Beam, compression chord lacing at 2.0m c/c (See Note 9) :-	9.75	* requires 4 bolts min at each joint, b) or c)

*** To obtain Characteristic working values multiply above values by 1.5*

Permissible shear force (kN):

All restraint intervals :- 11.69

Compression chord lacing at 1.0m c/c (See note 8) :-

		Span (m)				
		4.0	**6.0**	**8.0**	**10.0**	**12.0**
Uniform Load	(kN/m)	5.84	3.89	2.73	1.74	1.20
	Deflection (mm)	6.21	20.91	46.37	72.07	103.10
Single point load at mid span	(kN)	21.98	14.61	10.91	8.68	7.19
	Deflection (mm)	9.34	20.96	37.10	57.66	82.48
Two point loads at third spans	(kN)	11.69	10.96	8.18	6.51	5.39
	Deflection (mm)	8.46	26.78	47.40	73.67	105.39
Three point load at quarter spans	(kN)	7.79	7.30	5.45	4.34	3.59
	Deflection (mm)	7.86	24.88	44.06	68.47	97.94

Maximum single point load limited to 22kN 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 USG001.

3. Data provided is calculated in accordance with EN 1999 and factored to EN 12811.

4. Data provided assumes spigoted connections using DESSA steel or aluminium spigots.

5. All spigoted connections secured using quick release pin AF0001 or G8.8 M12x60 Bolt with nut AF0007

6. All loads must be applied 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.

DESSA Limited, Unit 25 Little End Road, Eaton Socon, St Neots, Cambridgeshire, PE19 8JH.

www.dessa.co.uk