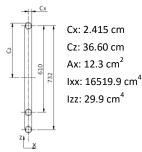
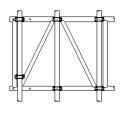


| Article | Image | Description | Weight | |
|---------|---------|----------------|--------|--|
| BA1000 | 1751 | D78 Beam 1.0m | 8.17 | |
| BA2000 | | D78 Beam 2.0m | 9.17 | |
| BA3000 | | D78 Beam 3.0m | 17.17 | |
| BA4000 | | D78 Beam 4.0m | 23.07 | |
| BA5000 | | D78 Beam 5.0m | 27.92 | |
| BA6000 | | D78 Beam 6.0m | 33.62 | |
| BS0001 | | D78 Spigot 6HS | 1.50 | |
| BS0002 | 0 5 6 6 | D78 Spigot 4HS | 0.65 | |

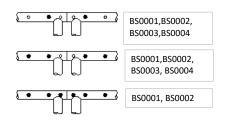
Cross section:



Puncheon locations:



Connections:



Permissible bending moment (kNm):

Joint, 1 bolt each side, all lacing intervals(not reommended) :-Joint, 2 bolts each side, all lacing intervals :-Joint, 3 bolts each side, all lacing intervals :-

Beam, compression chord lacing at 1.0m c/c $^{(See \, Note \, 9)}$:-Beam, compression chord lacing at 1.2m c/c $^{(See \, Note \, 9)}$:-

38.84 * requires 6 bolts total at each joint
31.86 * requires 4 bolts total at each joint

Permissible shear force (kN):

All restraint intervals :-

23.71

18.80

36.70

54.50

| 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) | 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 |
| | 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 |
| | 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 |
| | Deflection (mm) | 4.33 | 11.94 | 21.15 | 32.91 | 47.14 |

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 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 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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