



TECHNICAL INFORMATION

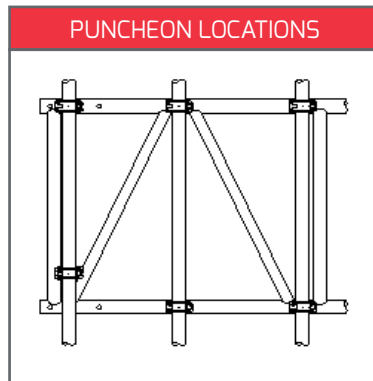
D78 ALUMINIUM SCAFFOLD BEAM

TIS17001-

| ARTICLE | IMAGE | DESCRIPTION | WEIGHT (kg) |
|---------|-------|----------------|-------------|
| BA0018 | | D78 Ridge 18° | 7.5 |
| BA0036 | | D78 Ridge 36° | 11.1 |
| BA0118 | | D78 Eaves Beam | 5.75 |
| BA1000 | | D78 Beam 1.0m | 8.17 |
| BA2000 | | D78 Beam 2.0m | 9.17 |
| BA3000 | | D78 Beam 3.0m | 17.17 |

| ARTICLE | IMAGE | DESCRIPTION | WEIGHT (kg) |
|---------|-------|----------------|-------------|
| BA4000 | | D78 Beam 4.0m | 23.07 |
| BA5000 | | D78 Beam 5.0m | 27.92 |
| BA6000 | | D78 Beam 6.0m | 33.62 |
| B50001 | | D78 Spigot 6HS | 1.50 |
| B50003 | | D78 Spigot 4HS | 1.51 |

| CROSS SECTIONAL PROPERTIES |
|---|
| <p> Cx: 2.415 cm Cz: 36.60 cm Ax: 12.3 cm² Ixx: 16519.9 cm⁴ Izz: 29.9 cm⁴ </p> |



| CONNECTIONS |
|---------------------------------------|
| <p>B50001, B50002, B50003, B50004</p> |
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| <p>B50001, B50002</p> |

| PERMISSIBLE BENDING MOMENT (kNm) | PERMISSIBLE SHEAR FORCE (kN) |
|---|----------------------------------|
| Joint, 1 bolt each side, all lacing intervals (not recommended) : 18.80 Joint, 2 bolts each side, all lacing intervals : 36.70 Joint, 3 bolts each side, all lacing intervals : 54.50 Beam, compression chord lacing at 1.0m c/c ^(See Note 9) : 38.84 * req. 6 bolts total at each joint Beam, compression chord lacing at 1.2m c/c ^(See Note 9) : 31.86 * req. 4 bolts total at each joint | All restraint intervals :- 23.71 |

| 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 |

| 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 B50001 or B50003 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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