

# DECK500

## pultruded plank flooring

DECK500 gives a solid floor with a gritted anti-slip surface. It will span 1.5m at a design load of 5kN/m<sup>2</sup> with a deflection limit of L/200 and meets all the requirements of BS 4592-4 Industrial type flooring and stair treads – Part 5: Solid plates in metal and glass reinforced plastics (GRP) – Specification and BS EN ISO 14122 part 2 - Safety of Machinery – Permanent means of access to machinery.

DECK500 meets all the requirements of EN 13706 – Specification of grp profiles – Grade E23 and is manufactured under ISO 9001 registered quality control system.

DECK500 is suitable as a mezzanine floor, for walkways, pedestrian bridge decks and odour control covers or to keep out water penetration in potable and waste water treatment units.

DECK500 can be used in a number of other applications where its strength, light weight and ease of joining provide important benefits.

**For example:**

- Top deck covers for cooling towers
- Baffles in water treatment tanks
- Stop locks
- Flood defence barriers—easy to install, no theft value

**Mechanical Properties**

The following data has been calculated from measurements made of the full section modulus - EN 13706, Annex D

**LOAD TABLE**

**UDL Loading**

|                        |       |       |      |      |      |
|------------------------|-------|-------|------|------|------|
| Span mm                | 750   | 1000  | 1250 | 1500 | 1750 |
| Deflection = L/200     | 3.75  | 5.00  | 6.25 | 7.50 | 8.75 |
| Load kN/m <sup>2</sup> | 42.73 | 18.03 | 9.23 | 5.34 | 3.36 |

**Centre Point Loading**

|                        |       |      |      |      |      |
|------------------------|-------|------|------|------|------|
| Span mm                | 750   | 1000 | 1250 | 1500 | 1750 |
| Deflection = L/200     | 3.75  | 5.00 | 6.25 | 7.50 | 8.75 |
| Load kN/m <sup>2</sup> | 10.02 | 5.36 | 3.61 | 2.50 | 1.84 |

DECK500 is a one-piece pultruded profile, 500mm over width, with a tongue and groove joint along the length of the plank that gives a firm, sealable joint between lengths of profile.

