

Captrad Ltd - GRP Deck500

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 pro-file.

DECK500 gives a solid floor with a gritted anti-slip surface. It will span 1.5m at a design load of 5kN/m² 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 9000 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 easy of joining provide important benefits.

For example:

- Top deck covers for cooling towers
- Baffles in water treatment tanks
- Stop locks
- Floor 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 ² | 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 | 10.02 | 5.63 | 3.61 | 2.50 | 1.84 |

