

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

