

SMYTH COMPOSITES

FYBATEX PANELS

General Technical Specification

GENERAL DESCRIPTION

Fybatex panels - GRP solid coloured panel, designed for use in a general cladding, lining applications which are manufactured by combining hundreds of thousands of chopped glass strands laid in a multi-directional format (providing strength in all directions) with pigmented thermoset UV resins.

FINISHING SURFACE

Standard surfaces include:

- | | | |
|-----------------------------|---------------------|--------------------|
| * Smooth / Crinkle | * Smooth / Smooth | * Woodgrain / with |
| * Smooth / Leatherette | * Crinkle / Crinkle | any of the other |
| * Leatherette / Leatherette | * Smooth / Resotex | finishes offered |

WEIGHT OF A PANEL

THICKNESS [mm]	WEIGHT [kg/m ²]	THICKNESS [mm]	WEIGHT [kg/m ²]
3mm	4.00	8mm	10.20
4mm	5.10	9mm	12.24
5mm	6.80	10mm	13.60
6mm	8.10	11mm	14.96
7mm	9.52	12mm	16.20

FIRE RESISTANCE

Products can be manufactured to either:

1. General purpose (GP) grade (all products)
2. BS 476 Part 7 Class 1 (all products)
3. BS 476 Part 7 Class 2 (all products)

THERMAL CO-EFFICIENT OF EXPANSION 30 x 10⁻⁶ / °C

FACT: Compared with many other plastics GRP has minimal expansion and contraction characteristics and will not bow and warp in extremes of temperature.

THERMAL CONDUCTIVITY

FYBATEX: 0.2 w/mK

COLOUR RANGE

Panels can be manufactured to the following:

- B.S. 4800 Colour Range
- B.S. 5252 Colour Range

RAL Colour Range

A colour matching service is also available

SIZE & THICKNESS

Panels can be manufactured to any length but with a width restriction of 1525mm. Standard product range can be manufactured to literally any thickness from 2mm upward.

FLEXURAL STRENGTH 193 MPa

FACT: Flexural strength can be enhanced by the addition of woven reinforcement if required.

TENSILE STRENGTH 123 MPa

TENSILE MODULUS 7.1 GPa

FACT: GRP sheet is up to seven times stronger than mild steel on a weight for weight basis.

LOGISTICS

Panels are usually supplied on pallets and can be delivered anywhere in the UK within approximately 7-10 working days under normal circumstances. Each panel can be marked with a location code and panel size on the protective covering of the goods if required.

CLEANING & MAINTENANCE

In order to achieve an ongoing desirable aesthetic effect, panels should be cleaned as part of a regular maintenance plan. Panels can be cleaned by washing with soapy water, rinsed then wiped with a dry cloth avoiding smears – avoid using an abrasive medium on the surface of the panels. Exposed edges should be regularly re-coated with either a clear polyurethane varnish or a coloured topcoat supplied by the manufacturer. “On-site” cuts and drill holes should be appropriately sealed in a similar fashion, and mastic can be used to fill or seal drill holes.

Due to the wide variety of products within this range these Technical Specifications should be considered as a guide only. Please contact us if more specific product qualities and performance ratings are required.

Smyth Composites Limited operate as a “Toll Manufacturer” and therefore advise that Customers MUST satisfy themselves that the products they order are fit for the intended purpose.