

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.

CERTIFICATE OF CONFORMITY

Available upon request.

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.