



## FYBACORE PANELS

### General Technical Specification

#### GENERAL DESCRIPTION

**Fybacore panels** – manufactured by press bonding Fybatex GRP onto a range of core materials to produce attractive cladding / infill solutions for a wide range of new build and refurbishment applications.

#### 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 <sup>2</sup> ]	THICKNESS [mm]	WEIGHT [kg/m <sup>2</sup> ]
24mm Ply	18.00	48mm Foam	11.00
24mm Foam	9.00	57mm Foam	13.00

#### FIRE RESISTANCE

Products can be manufactured to either:

- |   |  |
|---|--|
| * General Purpose (GP) Grade (all products) | * BS 476 Part 7 Classes 1 or II (all products) |
|---|--|

#### THERMAL CO-EFFICIENT OF EXPANSION 30 x 10<sup>-6</sup> / °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

FYBACORE: The thermal conductivity is entirely dependent on the chosen substrate, but better than 0.35 “U” value is achievable.

#### COLOUR RANGE

Panels can be manufactured to the following:

B.S. 4800 Colour Range

RAL Colour Range

B.S. 5252 Colour Range

A colour matching service is also available

#### SIZE & THICKNESS

Panels can be manufactured to any length (normally not longer than 3300mm though) and with a width restriction of 1525mm. Standard product range can be made to literally any thickness from 9mm up.

#### 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.

\* These figures relate directly to the Fybatex skins, the actual values vary according to the cores used.

#### 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.

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.