

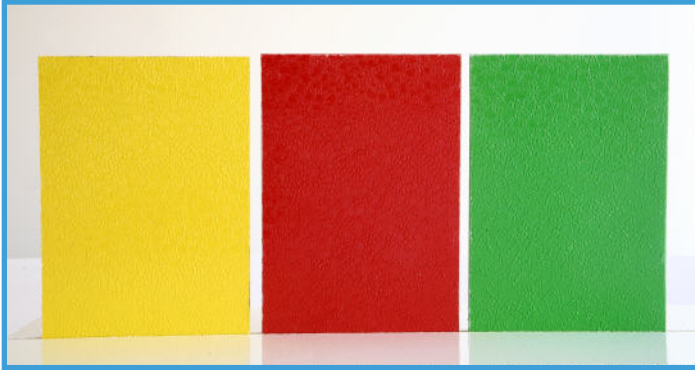
GRP Composite Panel Products



FYBATEX

GRP (Glass Reinforced Plastic) is an incredibly versatile product used in many applications where conventional materials cannot meet required specifications and standards such as fire ratings, impact resistance and weight consideration.

Since 1988, Smyth Composites have specialised in the manufacture of through colour GRP panels and have grown to become possibly the largest manufacturer of “thick sheet” products in the UK.



FYBATEX panels are manufactured by combining hundreds of thousands of glass strands with pigmented thermoset UV resins, to produce an immensely strong and durable panel whilst maintaining an attractive appearance, and can be produced to incorporate the following features :

• Any B.S. or RAL colour
• U.V. Resistant
• Impact Resistant
• Any thickness
• Low maintenance
• C.L.A.S.P approved
• Graffiti Resistant
• No minimum quantity

FIRE PERFORMANCE

Due to extensive choice of panel and core materials available, products can be manufactured to suit individual customer requirements. Where there is a risk of fire, Class 1/0 BS 476 systems come highly recommended, whereas our Phenolic laminates and foams provide the ultimate protection against fire, smoke and toxic emissions. (See separate Phenclad data sheet)

APPLICATIONS INCLUDE:

1. BALCONY PANELS
2. DOOR FACING
3. INFILL PANELS
4. CURTAIN WALLING
5. PATENT GLAZING
6. HYGIENIC LINING
7. SOFFIT PANELS
8. FASCIA PANELS



Low level FYBATEX panels installed in bus shelters.

FYBACORE

FYBACORE panels are manufactured by press bonding **FYBATEX** GRP onto a range of core materials to produce an attractive, yet functional, cladding / infill solution for a wide variety of new build and refurbishment applications.

Specialist high performance adhesive systems are used to create a structural bond between the GRP skins and core material to ensure against potential failure and de-lamination.

Panels are tailor made to suit individual customer requirements , and combinations of thickness, colour and surface texture can be incorporated to provide a wide choice of design configurations.

CORE MATERIALS MAY INCLUDE :

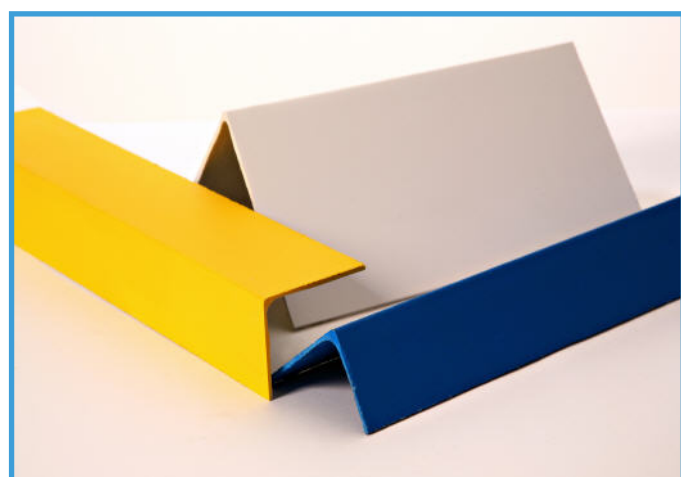
STYROFOAM	DOOR BLANKS
PHENOLIC	POLYURETHANE
POLYISOCYANURATE	BALSA WOOD
WBP PLY	M.D.F



DOCUMENT L / "U" VALUES

The "U" value measures the rate at which heat is lost through a material. The lower "U" value, the lower the amount of heat lost and the lower the amount of energy wasted.

"U" values will invariably depend on the core material chosen, but **FYBACORE** panels can be manufactured to suit Document L specifications, which require a "U" value lower than or equal to 0.35 W/m²K



Trims & angles cover plates can be produced in matching colours.

GLAZING STEPPED EDGE



REBATED HARDWOOD STEPPED EDGE



FLUSH EDGE (taped if required)



REBATED STEPPED EDGE



SURFACE TEXTURES

All **FYBATEX** panel products can be manufactured with a variety or combination of surface finishes.

The inclusion of a surface protection membrane, can significantly enhance the quality and lifespan by providing a high level of UV and graffiti resistance.

Choices include:

UV CRINKLE (LEATHERETTE)

(emboss)

UV SMOOTH

(mid gloss)

DEEP CRINKLE

(emboss, not available with UV coating)

RESOTEX

(matt, satin finish)

Other surface textures such a high-gloss and woodgrain finish can be achieved to specific customer requirements.

Please consult head office for further details.



TECHNICAL SPECIFICATION

GRP Panel Products

Colour Range

Panels can be manufactured to the following: -
B.S. 4800 Colour Range
B.S. 5252 Colour Range
RAL Colour Range
A colour match service is also available.

Tensile Strength

123MPa

Flexural Strength

193MPa
Flexural strength can be enhanced by the addition of woven reinforcement if required.

Thermal Conductivity

THERMAL CONDUCTIVITY >
FYBATEX - 0.2 W/m²K
FYBACORE - The thermal conductivity is entirely dependant on the chosen substrate, but better than 0.35 'U' value (Document L) is achievable.

To Order Please Specify

PRODUCT
SURFACE FINISH
THICKNESS
COLOUR
QUANTITY

Thermal Co-Efficient Of Expansion

$30 \times 10^{-6} / \text{DEG C}$
FACT : Compared with many other plastics GRP has minimal expansion and contraction characteristics.

Tensile Modulus

7.1GPa
GRP sheet is up to seven times stronger than mild steel on a weight for weight

Size and Thickness

Panels can be manufactured to any length but with a width restriction of up to 1525mm.

Standard product range can be produced to literally any thickness from 2mm upward.

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.

Fire Resistance

Fybatex can be manufactured to either:

General Purpose Grade
Class I Fire Retardant BS476 Part 7
Class 0 Fire Retardant BS476 Part 6
Class II Fire Retardant BS476 Part 7

Unlike other coloured plastic sheets Fybatex will not drip, soften or melt in the event of a fire.

**FYBATEX & FYBACORE PRODUCTS ARE
MANUFACTURED BY**



**PANMURE INDUSTRIAL ESTATE
CARNOUSTIE - ANGUS - DD7 7NP**

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FAX : 0 1 2 4 1 8 5 5 9 3 1

E M A I L : admin@scomp.co.uk

W E B S I T E : www.scomp.co.uk

**OTHER PRODUCTS MANUFACTURED
BY SMYTH COMPOSITES INCLUDE:**

FYBAGLAZE

Impact resistant GRP glazing.

PHENCLAD

Fibre reinforced phenolic sheet with high fire resistance and low smoke emission.

SPECIALIST SHEET PRODUCTS

GRP flat sheet suitable for a range of engineering and chemical resistance application.

ANTI-SLIP PRODUCTS

Wide range of GRP non-slip solutions. Gritted plate, GRP Stair Treads, Chequer Plate.