



Unit 10, Panmure Ind Est, Carnoustie, Angus
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FYBAGLAZE PANELS
General Technical Specification

GENERAL DESCRIPTION

Fybaglaze panels – possibly the toughest glazing material available. Panels are virtually unbreakable and have a high resistance to impact, shock and wind loading, whilst maintaining an aesthetic appearance.

FINISHING SURFACE

Standard surfaces include:

- * Smooth / Crinkle
- * Smooth / Leatherette
- * Leatherette / Leatherette
- * Smooth / Smooth
- * Crinkle / Crinkle
- * Woodgrain / any of the other 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 6 Class 'O' (all products)
4. BS 476 Part 7 Class 2 (all products)
5. BS 476 Part 22 ½ hour fire rating (Fybagard to Class 1/0 only)

THERMAL CO-EFFICIENT OF EXPANSION $30 \times 10^{-6} / ^\circ\text{C}$

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 0.2w/mK

FACT: Significantly lower than glass

IMPACT RESISTANCE

To BS 5544 (cert no: 395-1) and regulation 14 compliant.

FACT: Steel Ball drop test concluded no penetration or breakage of GRP glazing.

UV / LIGHT TRANSMISSION

Up to 83% depending on thickness and surface texture.

FACT: The inclusion of our unique surface protection membrane can significantly enhance the quality, appearance and lifespan of GRP Glazing by providing a high level of UV resistance, thus ensuring continued light transmission.

GRAFFITI RESISTANCE

A factory applied coating operation ensures simple removal of graffiti with no detrimental surface effects to the panel.

FLEXURAL STRENGTH 170 MPa

FACT: Will not bow or flex as much as other glazing plastics.

TENSILE STRENGTH 100 MPa

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

TENSILE MODULUS 8 GPa

UV Resistance

FybaGlaze products are made from either UPO -906 or DSM-6815 resin (depending on the fire rating required), both of which contain anti-UV inhibitors. All FybaGlaze panels are also finished with an anti-UV film to further guard against UV discoloration.

SHEET DIMENSIONS

FYBAGARD / FYBALYTE:

Standard stock sheet size is 8' x 4' (2440mm x 1220mm), but as all panels are manufactured to customer requirements, virtually any length can be accommodated (bearing in mind manhandling and delivery issues maximum length is generally 3500mm) – there is a width restriction of 1525mm.

FYBAMESH:

8' x 4' (2440mm x 1220mm) or any derivative within these sizes.

SHEET STRENGTH

Standard product range can be manufactured to literally any thickness with 3mm, 4mm & 6mm being standard. 12mm is *usually* maximum thickness produced.

CUTTING AND HANDLING

FYBAGARD / FYBALYTE:

Jig saw, Bench saw (using diamond tipped blade) or Guillotine.

FYBAMESH:

Guillotine abrasive disc, Jig saw (using metal cutting blades).

Cut in well-ventilated area using gloves, eye protection and dust particle masks.

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.