

Fybaglaze tech. spec.



FYBAGLAZE PANELS

General Technical Specification

General description:

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

Due to the wide variety of products and variations available in the Fybaglaze range, the following **technical specifications** should be considered as a guide only. Please **contact us** directly for more accurate product qualities and performance ratings.

FINISHING SURFACE

Standard surfaces included:

1. Smooth / Crinkle
2. Smooth / Smooth
3. Smooth / Leatherette
4. Crinkle / Crinkle
5. Leatherette / Leatherette
6. Smooth / Resotex

Surfaces available for special order:

1. Woodgrain / any from standard range

WEIGHT OF A PANEL:

THICKNESS	WEIGHT
[mm]	[kg/m ²]
2mm	2.60
3mm	4.00
4mm	5.10
5mm	6.80
6mm	8.10

FIRE RESISTANCE

Products can be manufactured to either:

1. General purpose (GP) grade
2. BS 476 Part 7 Class 1
3. BS 476 Part 6 Class 'O'
4. BS 476 Part 7 Class 2
5. BS 476 Part 22 1/2 hour fire rating (Fyregard only)

THERMAL CO-EFFICIENT OF EXPANSION

30×10^{-6} /Deg C

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

IMPACT RESISTANCE

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

FACT: Steel Ball drop test conclude 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 by providing a high level of UV resistance, thus ensuring continued light transmission.

GRAFFITI RESISTANCE

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

SHEET DIMENSIONS

FYBAGARD / FYBALYTE:

Standard stock sheet size is 8 x 4 (2440 x 1220), but as all panels are manufactured to customer requirements, virtually any length can be accommodated, with a width restriction of 1525mm.

FYBAMESH:

8 x 4 (2440 x 1220), 10 x 4 (3050 x 1220), 10 x 5 (3050 x 1525) all nominal sizes, or any derivative within these sizes.

FLEXURAL STRENGTH

170 MPa

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

SHEET THICKNESS

Standard product range can be manufactured to literally any thickness with 3mm, 4mm & 6mm being standard.

TENSILE STRENGTH

100MPa

FACT: Seven times stronger than mild steel on a weight for weight basis.

TENSILE MODULUS

8 GPa

THERMAL CONDUCTIVITY

0.2 w/mK

FACT: Significantly lower than glass.

CUTTING AND HANDLING

FYBAGARD / FYBALYTE: Jig saw, Bench saw (using diamond tipped blade), Guillotine.

FYBAMESH: Guillotine abrasive disc, jig saw (using metal cutting blades).

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