

ALKALI RESISTANT QUADAXIAL GLASS

JESMONITE
MADE FROM
TE®

PRODUCT DESCRIPTION

Jesmonite® Alkali Resistant Glass is stitched multi-axial glass reinforcement designed for use with Jesmonite composite materials AC730 and AC930. The product is used in combination with Jesmonite to create strong, lightweight laminates. Quadaxial Glass is made from Owens Corning® Cem-FIL® Alkali Resistant fibre. This material is backed by 40 years in service use worldwide, and has proven durability and performance. The product is manufactured under ISO 9001, and laminates made using AC730 and AC930 conform to BS/EN 1170, which is the international standard for GRC products.

SPECIFICATIONS

Fibre type	Alkali Resistant – complies with BS/EN 1170
Construction	0/-45/90/+45
Fabric weight	180 gsm +/- 5%
Tex	320 (Linear weight of roving)

TYPICAL PROPERTIES

Strand tensile strength	1.7 GPa
Elastic Modulus	72 GPa
Softening point	860°C
Fire performance	Non combustible

APPLICATION AREAS

The product is specifically designed to make hand lay-up, decorative mouldings, in combination with AC300, AC100, or for external use AC730. External cladding panels, moulded furniture, sculpture, and a full range of GRC compliant moulded products.

KEY ATTRIBUTES

Alkali resistant – Complies with the GRC standard for known external durability.
Optimal fibre orientation to achieve maximised flexural strengths and impact resistance.
Open fabric allows easy and thorough wet out of glass fibres ensuring optimal composite performance.
No free filament – easy to handle, non-itching.
Can be cut to shape and pre-formed into moulds to provide continuous filament reinforcement.

PACKAGING

Available in 25sqm rolls and 125sqm rolls – all supplied at 1.25m width.

STORAGE

Keep away from heat and moisture, and in suitable packaging. Best conditions for storage are 15°C – 35°C, within a humidity range of 35% – 65%. If the product is stored at lower temperatures it is advisable to condition it in the workshop for at least 24 hours to prevent condensation.

The above information and recommendations are based upon our experience and are offered merely for advice. They are offered in good faith but without guarantee, as conditions and methods of use are beyond our control. It is the responsibility of the end user to determine the suitability of the materials for the particular purpose intended.

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THE KEY BENEFITS OF USING JESMONITE



Stronger

Strong, flexible and more durable, making it high impact resistant.



Finer

Replicates the very finest detail.



Greener

Water-based not solvent-based making it kinder to the environment.



Lighter

Lighter than stone, glass-reinforced concrete, sand and cement products – perfect for film sets.



Safer

Fire-resistant with a class zero fire rating, reduced smoke density and toxicity characteristics. Solvent free with no VOC's.



More choice

Can be pigmented to any colour or RAL reference. It can also mimic any texture and reproduce the effect of materials such as stone, metal, wood, leather and fabric.