

HIGH IMPACT TRANSLUCENT ROOFING

 **Topglass® GC Ultra-Safe**



Introduction

Industry concerns relating to Natural Roof Lighting being classified as “brittle” and therefore possibly posing a danger to foot traffic on the roof, has led to Laserlite Building Products’ purpose-developing a heavy-duty and high-impact roof lighting system to alleviate these concerns. Aply named Topglass® GC Ultra-Safe, the product utilises a heavy-duty, woven roving reinforcing system positioned within the resin matrix, providing exceptional strength.

Key Benefits

- Topglass® GC Ultra-Safe is manufactured utilising heavy-duty woven roving enclosed within the resin matrix which in turn provides a structural capability not normally available with traditional translucent roofing materials
- Topglass® GC Ultra-Safe meets the impact strength tests of AS/NZS 4040.4 and satisfies the requirements of AS 4256.3 alleviating the need for safety mesh to be installed under the sheeting (refer to Safety). This is of particular benefit to building designers who face corrosive atmospheres damaging the safety mesh zinc coating.
- As the roving matrix runs both longitudinally and laterally within the sheet, Topglass® GC Ultra-Safe demonstrates exceptional high impact strength
- Corrosion resistant when installed in wide range of aggressive environments
- Excellent spanning capabilities
- Topglass® GC Ultra-Safe meets the impact strength tests of AS 4256.3 clause 11.3, AS 4040.1, and AS 1562 alleviating the need for safety mesh, rather than just a roof lighting product

Applications

- Educational facilities and Public Assembly areas
- Fertiliser Plants
- Chemical and Powder-coating Plants
- Wool scouring facilities
- Waste water treatment plants
- Salt Extraction Facilities
- Severe marine environments
- Natural roof lighting where safety mesh is not installed
- Wood Pulp and Paper Plants

* Nominal Thickness 100 Micron.

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BUILDING PRODUCTS



Special Applications

- In severe corrosive environments, the Topglass® GC Ultra-Safe resin system can be fortified using Vinyl Ester to provide maximum protection.
- Topglass® GC Ultra-Safe can be supplied as a heavy duty solid coloured roofing and cladding material to replace metal roofing products for use in corrosive environments.

Weather Surface Coating

Laserlite Building Products 100 micron* EXO-SET 206 Premium Gelcoat weather surface used in the manufacture of Topglass® GC Ultra-Safe offers superior sheet clarity and unsurpassed long-term UV resistance against premature yellowing.

Weight/Thickness of Sheeting

Topglass® GC Ultra-Safe is supplied as standard weight of 3660g/m².

Colours

The standard colours of Topglass® GC Ultra-Safe are Clear, Opal and TopCool.

Safety

Whilst Topglass® GC Ultra-Safe is classified as heavy-duty, meets the impact test of AS 4040.4, satisfying the requirements of AS 4256.3, and can support foot traffic, long-term degradation and/or post roof installation impact damage can seriously affect the performance of the sheeting. In order to comply with the requirements of AS 1562.3:2006 Part 3 Plastic, protect the weather surface coating and provide continual structural strength, all FRP products should be protected from foot traffic, therefore a suitable proprietary aluminium walkway is always recommended. Consult Laserlite Building Products for recommended systems.

Specification

The translucent sheeting and/or roofing and cladding shall be Topglass® GC Ultra-Safe as manufactured by Laserlite Building Products to comply with AS 4256.3 JAS-ANZ Certification Licence No 2349. The sheeting shall conform to the nominated roofing and cladding profile and installed in accordance with the requirements of the Laserlite Building Products Topglass® GC Ultra-Safe proprietary safety fixing system.

Warranty

25 Year Warranty. Terms and Conditions apply.

Light and Solar Transmission		
Tint	Visible Light Transmission	Solar Transmission
Clear	61%	56%
Opal	58%	49%
TopCool	40%	22%