



Topglass Ultra-Safe

High Impact, Corrosion Resistant Glass Reinforced Roofing and Cladding



Introduction

Industry concerns relating to Natural Roof-Lighting being classified as "brittle" and therefore possibly posing a danger to foot traffic on a roof, has led to Alsynite NZ Ltd purpose developing a heavy duty and high impact roof lighting system to alleviate these concerns. Aptly named Topglass Ultra-Safe, the product utilises a heavy duty, woven roving reinforcing system positioned within the resin matrix, thereby providing exceptional strength. Further, the innovative fastening system jointly developed by Alsynite NZ Ltd and the Company's fastening supplier provides maximum security to any foot traffic across the roof whether this is day, night or in times of restricted visibility.

Key Benefits

- Topglass 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 Ultra-Safe meets the impact strength tests of AS/NZS 4040 and AS/NZS 1562 alleviating the need for safety mesh to be installed under the sheeting (* see 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 Ultra-Safe demonstrates exceptional high impact strength
- A 100 micron Gel coated surface provides long term light transmission and is supported by a 20 year weather surface structure warranty
- Corrosion resistant when installed in wide range of aggressive environments
- Excellent spanning capabilities
- Topglass Ultra-Safe is marketed as a safe roof lighting system, rather than just a roof lighting product

Applications

- Educational facilities and Public Assembly areas where there is a danger of persons climbing onto a roof exists
- 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

Special Applications

- In very severe corrosive environments the Topglass Ultra – Safe resin system can be fortified using Vinyl Ester to provide maximum protection
 - Topglass Ultra-Safe can be supplied as heavy duty a solid coloured roofing and cladding material to replace metal roofing products for use in corrosive environments. See also Topclad Page 12
- Weight Thickness of sheeting
Topglass Ultra-Safe is supplied as standard weight of 3660g/m².

Colours

The standard colours of Topglass Ultra-Safe are opalescent and clear. Other pigments are available subject to minimum order quantity. For solid colours see Topclad Page 13.

Profiles

Topglass Ultra-Safe is available to match most common roofing profiles.

Spanning

Refer Load span graph

Light and Solar Transmission

| Tint | Visible Light Transmission | Solar Transmission |
|------------|----------------------------|--------------------|
| Clear | 61% | 56% |
| Opalescent | 58% | 49% |

Safety

Whilst Topglass Ultra-Safe is classified as heavy duty, meets the impact test requirements of AS/NZS 4040, and can support foot traffic, long term degradation and or post roof installation impact damage can seriously affect the performance of the sheeting. Therefore, in order to comply with the requirements of AS/NZS1562.3:1996 Part 3 Plastic, protect the weather surface coating and provide continual structural strength, all GRP roofing products should be planked prior to being walked on

Specification

The translucent sheeting and/or roofing and cladding shall be Topglass Ultra-Safe (insert colour) as manufactured by FGW Corporation Pty Ltd to comply with AS/NZS 4256.3. The sheeting shall conform to the nominated roofing and cladding profile and installed in accordance with the requirements of the FGW Corporation Topglass Ultra-Safe proprietary safety fixing system

Warranty

Topglass Ultra-Safe is supported with a comprehensive 20 Year warranty. Full warranty conditions and written project warranties are available from FGW Corporation Pty Ltd.