



Topglass Cool

Heat Reducing Translucent Roofing



Introduction

A purpose developed natural roof lighting product especially developed by Alsynite NZ Ltd that permits the transmission of quality natural light whilst providing excellent thermal and UVA, UVB Blocking benefits.

Key Benefits

- Topglass Cool is a purpose developed heat reflective translucent glass reinforced polyester sheeting which is identified by its Ultra White finish;
- Topglass Cool provides an economical means of transmitting diffused natural light to the building interior, resulting in reduced airconditioning and ventilation costs;
- While transmitting natural light, Topglass Cool reflects unnecessary solar heat and virtually eliminates harmful ultra-violet radiation, providing a more comfortable work environment;
- Unlike other Infra Red blocking products, Topglass Cool continues to allow valuable heat to enter the building during the winter months with this then retained for longer periods and resulting in reduced heating costs;
- Specifically developed for industrial and commercial buildings, Topglass Cool is a relatively inexpensive and functional sheeting which is suitable to meet a wide variety of applications.

Applications

- Food manufacturing buildings;
- Warehouses and retail outlets storing food and fresh produce;
- Shopping centres and supermarkets;
- Bulk paper stores;
- Temperature-sensitive environments requiring high quality uniform natural light.
- Where harmful UVA and UVB transmission through the roof lighting may damage goods, Plant and fixtures.

Heat Reflective Surface

Topglass Cool has an Ultra White reflective surface.

The function of the coating is to allow natural diffused light through the sheet while at the same time reflecting the bulk of the solar heat away from the building interior. Heat is retained for longer periods within a building during the winter months. The effectiveness of Topglass Cool is shown in the Heat and Light Transmission table.

Surface Coatings

The Silmar 100 micron** gel coat used in the manufacture of Topglass Cool gives very good protection against solar deterioration. The reverse side of the sheeting is protected with a 20 micron stabilised Polyester film. Where corrosive atmospheres exist which affect the underside of the sheeting, a Proprietary high-sheen corrosive resistant surface can be supplied in place of the film.

Colours

Topglass Cool is available in Ultra White finish only.

Operating Temperature

The operating temperature range of Topglass Cool is - 20 °C to +95 °C.

Fire Retardant

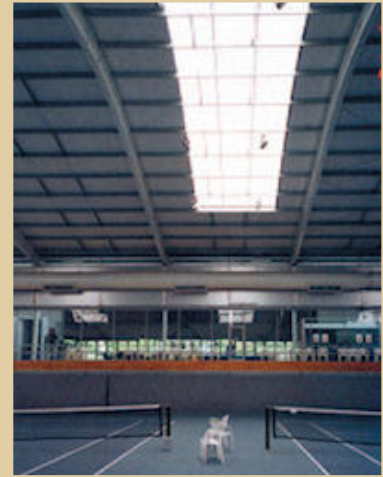
Topglass Cool can be supplied as fire retardant sheeting.

Trafficability

Where trafficability is of concern contact FGW Corporation for specific technical support.

Heat & Light Transmission

Weight	1800g/m2	2400g/m2	3050g/m2
Diffused Light Transmittance	38%	30%	26%
Total Transmitted Heat Load	31%	28%	24%
Solar Reflectance	9%	9%	9%



UVA and UVB transmission

Topglass Cool provides blocking of 99.9% UVA and 100% UVB harmful Ultra Violet light*.

Specification

The Translucent roofing shall be Topglass Cool Ultra White reinforced Polyester roof sheeting as manufactured by FGW Corporation Pty Ltd to comply with AS/NZS 4256.3: 2006.

The sheeting shall beg/m2 ormm and manufactured to conform to the nominated roofing and cladding profile. Installation shall be carried out in accordance with the requirements of AS/NZS 1562.3: 1994.

Product Handling

Care must be taken when handling and installing the product to avoid stress damage and/or scratching of the surface.

Warranty

Topglass® Cool is supported by a comprehensive 25 year warranty. Contact FGW Corporation Pty Ltd for full warranty details.

* It is possible for UVA and UVB to refract around the side of an open structure

** Nominal 100 micron gel coat