



Topglass SPF

Solar control gel-coated translucent roofing



Introduction

A revolutionary and innovative Gel-Coated Translucent roofing product developed by Alsynite NZ Ltd and aptly named Topglass and SPF 8 utilises a unique compound similar to that used in the design and manufacture of modern sunglass eyewear.

Topglass SPF Translucent roofing product uses this technology to differentiate between Infra-Red (heat) and visible light transmission and then absorbs and reflects the heat away from entering the structure whilst continuing to provide maximum light transmission.

Key benefits

- Provides maximum visible light transmission whilst preventing unwanted solar transmission into a building,
- Energy savings, reduces the need for artificial lighting, and air-conditioning
- Virtually eliminates harmful UVA and UVB ultra violet rays from entering a building

- Long term effective light transmission
- Excellent product warranties
- Topglass SPF is certified to AS/NZS 4256:3.1994

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 long-term natural light



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Product variations

A number of pigment variations can be achieved, however standard products are: Topglass SPF 4 and Topglass SPF 8. Please refer to the chart below for individual performance criteria.

Product	VisibleLight Transmission	Total Solar Transmission
Topglass GC SPF 4	64%	50%
Topglass GC SPF 8	49%	36%

Weather Surface Coating

100 micron gel coated weather surface

Operating temperature

The operating temperature of Topglass SPF is -20° C to + 90° C

Fire Retardant

Topglass SPF can be supplied in varying Fire Retardant grades

Trafficability

Where there is a likelihood of a person walking on Topglass SPF, contact FGW for specific technical advice

Roof profiles

Topglass SPF 4 and SPF 8 are manufactured to match all commonly available roofing and cladding profiles, including flat sheet

Severe corrosive environments

- In areas where corrosion is severe, Topglass SPF can be manufactured incorporating special purpose Vinyl-Ester Resin
- Where internal corrosion exists such as indoor swimming pools, a proprietary corrosion resistant and high polished reverse side surface can be supplied

Warranty

Topglass SPF is supported by project specific warranties pertaining to loss of light transmission and degradation for periods for up to 25 years. Please contact FGW for further information



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Weight/Thickness of sheeting

- Topglass SPF Products are manufactured in varying sheet thickness as follows:

Roof and cladding profiles : 1200g/m2 (0.9mm) - 4880g/m2 (3.06mm)

Flat sheet : 1800g/m2 (1.1mm) - 4000g/m2 (2.7mm)

Sheet lengths

As Topglass SPF Products are manufactured in Perth, Western Australia, all roofing profiles can be manufactured up to 25 metres thereby ensuring the elimination of end laps.

Load Span capabilities and Installation Instructions

Full information is contained in the Topglass Technical literature, FGW Technical catalogue and FGW Website

Specification

The translucent roofing shall be Topglass SPF 4 - SPF 8 (delete one) gel coated natural lighting system, and as manufactured by FGW Corporation to comply with AS/NZS 4256:3.1994.

The sheeting shall beg/m2 or.....mm and manufactured to conform with the nominated roofing and cladding profile. Installation shall be carried in accordance with the requirements of AS/NZS 1562.3:1996. and FGW Corporation Technical catalogue.

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