

Topglass[®] GC SPF

Solar Protective Gel-coated Natural Roof Lighting



Bidvest NZ Ltd with Alsynite One AITV 900 Ventilators

Introduction

A revolutionary and innovative Gel-Coated natural lighting product developed using Alsynite One NZ Technology and aptly named Topglass SPF - Solar Protection Feature. Encompassing a unique manufacturing process similar to that used in the design and manufacture of modern sunglass eyewear, Topglass[®] SPF Solar control roof lighting, selects and singles out Infra-Red (heat) plus harmful Ultraviolet rays, thereby preventing heat build-up and UV damage to Stock and Plant.

Key Benefits

- Provides maximum visible light transmission whilst preventing unwanted solar transmission into a building.

- Reduces energy and air-conditioning costs along with the need for additional artificial lighting.
- Virtually eliminates harmful UVA and UVB ultra violet rays from entering a building.
- The sheet is aesthetically unique, providing innovative design characteristics for building designers.
- Long term effective light transmission.
- Excellent project warranties.
- Topglass[®] SPF is JAS-ANZ certified to AS 4256:3.2006 Licence No. 2349.

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 lighting.

ALSYNITE ONE *exo-set206*
PREMIUM GRADE GEL COAT

Weather Surface Coating

Alsynite One 130 micron* EXO-SET 206 Premium Gelcoat weather surface.

Product Variations

Product	Visible Light Transmission	Total Solar Transmission
Topglass SPF 4	64%	50%
Topglass SPF 8	49%	36%



BIDVEST NZ LTD

Operating Temperature

The operating temperature of Topglass® GC SPF is -30°C to +70°C.

Safety

To comply with the requirements of AS 1562.3: 2006 Part 3 Plastic, translucent roofing products are classified as “Brittle Roofing” and therefore not suitable to support foot traffic. With the exception of Topglass® GC Ultra-Safe (see page 12.) Safety mesh should be installed under all translucent roofing.

Roof Profiles

Topglass® GC SPF 4 and Topglass® GC 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® GC 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.

Weight/Thickness of Sheeting

Topglass® GC SPF Products are manufactured in varying sheet thickness as follows: Roof profiles: 1800g/m² (1.1mm) to 3660g/m² (2.5mm) Flat sheet: 1800g/m² (1.1mm) – 4000g/ m² (2.7mm)

Specification

The translucent roofing shall be Topglass® GC SPF 4 and SPF 8 gel-coated natural roof lighting system, JAS-ANZ Certified and as manufactured by Alsynite One NZ Ltd to comply with AS 4256:3.2006, Licence No. 2349. The sheeting shall be measured in g/m² or mm (sheet thickness) and manufactured to conform to the nominated roofing and cladding profile (refer to Technical Information, page 24). Installation shall be carried out in accordance with the requirements of AS 1562.3: 2006, Topglass® technical literature and Alsynite One NZ Technical Catalogue.

Test Reports

Full Vipac test reports are available on Topglass® GC SPF 4 and SPF 8 for Single-Skin and Twin-Skin System

applications. Measurement and Calculation of Twin Skin Solar Optical Properties, 6 March 2008. Vipac Engineers and Scientists Ltd, Melbourne Vic. This information is available on request.

Full Vipac Mechanical test reports pertaining to Topglass 2400 gsm and Topglass GC Ultrasafe series, August 2014 available on request

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WARRANTY



Topglass® GC SPF is supported by a comprehensive 25 year warranty and a 20 year light transmission warranty. For written project warranties, contact Alsynite One NZ Ltd.