

# SOLAR PROTECTIVE GELCOATED TRANSLUCENT ROOFING

 **Topglass® GC SPF**



## Introduction

A revolutionary and innovative Gelcoated natural lighting product developed using Laserlite Building Products 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 infrared (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

## Weather Surface Coating

Laserlite Building Products 100 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%

 **LASERLITE**  
BUILDING PRODUCTS



## 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. Safety mesh should be installed under all translucent roofing.

## 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: 2400g/m<sup>2</sup> (1.1mm), 3050g/m<sup>2</sup> (1.8mm) to 3660g/m<sup>2</sup> (2.5mm) Flat sheet: 2400g/m<sup>2</sup> (1.1mm)

## Specification

The translucent roofing shall be Topglass® GC SPF 4 and SPF 8 gelcoated natural roof lighting system, JAS-ANZ Certified and as manufactured by Laserlite Building Products to comply with AS 4256:3.2006, Licence No. 2349. The sheeting shall be measured in g/m<sup>2</sup> or mm (sheet thickness) and manufactured to conform to the nominated roofing and cladding profile. Installation shall be carried out in accordance with the requirements of AS 1562.3: 2006.

## Test Reports

Full Vipac test reports are available on Topglass® GC SPF 4 and SPF 8 for Single Skin and Twinskin System applications. Measurement and Calculation of Twinskin 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® 2400gsm and Topglass® GC Ultra-Safe series, August 2014 available on request.