

July 2009



Topglass GC

Gel Coated Natural Roof Lighting

translucent
roofing



www.fgwcorp.com.au

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Gel-Coated Natural Roof Lighting

Introduction

Topglass GC is a recent development in the Topglass® Natural Lighting family of products, and uses an innovative manufacturing process as developed by Alsynite NZ, whereby Silmar 100micron** Gel-coat is applied to the weather surface of the sheeting.

Offering exceptional resistance against corrosive atmospheres, and providing protection against solar deterioration Topglass GC brings additional benefits to Building Designers and owners.

Topglass GC can also be supplied in "solid colours" providing an excellent alternative to metal roofing and cladding systems in Corrosive environments. See Topclad page 10.

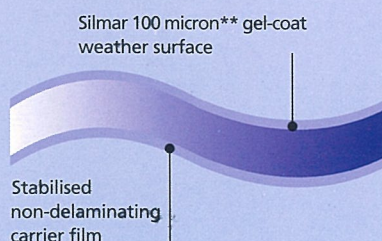


Key Benefits

- Manufactured from an acrylic modified polyester resin system and incorporating additional ultra violet stabilisers, Topglass GC utilises anti-static high quality glass fibre rovings to give maximum strength during the curing and bonding process;
- The ultimate benefit of the Topglass GC product over general purpose grades of GRP natural roof lighting products is the addition of a UV-stabilised 100 micron** Silmar gel-coated surface which is reactive thermo-set to provide a high gloss surface;
- Topglass GC, which is manufactured to meet the requirements of AS/NZS 4256:3.1994, is economical and provides flexibility whilst resisting UV degradation and yellowing much longer than is commonly experienced with general purpose grade translucent roofing products;
- Harmful Ultra Violet Rays remain a major concern for today's building designers. Topglass GC UV Smart pigment specifically developed by Alsynite NZ, provides 100% UVB Block. This innovative pigment is also available included in Topglass GC Cool.

Applications

- Roof and wall lighting to all commercial, industrial, institutional and other buildings requiring long term natural lighting without early surface degradation;
- School/Childcare Centres and public outdoor areas requiring good UV protection.



Special Applications

- Topglass GC can be pigmented to meet varying light and solar transmission requirements;
- Heavy duty solid colour-fast roofing and cladding can be supplied to replace traditional roofing and cladding products for use where corrosion exists. These are manufactured as Topclad.

Surface Coatings

The Silmar 100 micron** gel coat used in the manufacture of Topglass GC gives very good protection against solar deterioration. The reverse side of the sheeting is protected with a 20 micron Polyester film.

Where corrosive atmospheres exist which affect the underside of the sheeting, FGW Proprietary high-sheen corrosive resistant surface can be supplied in place of the film.

Colours and Tints

Topglass GC is available in standard colours of Clear, Opal, SPF, UV Smart, A cool version can be supplied using an Ultra White reflective surface as is used in the manufacture of Topglass Cool. Other colours to suit specific design criteria are available on request. Consult

FGW Corporation Ltd as minimum quantities apply.

Heat Reducing Sheeting

Topglass GC can be supplied as heat reflective translucent roof sheeting. See: Topglass Cool and Topglass SPF.

Operating Temperature

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



Visible Light and Solar Transmission

Weight	Clear		Opal		UV Smart	
	Light	Solar	Light	Solar	Light	Solar
1800g/m2	84%	75%	78%	69%	49%	38%
2400g/m2	74%	65%	65%	60%	40%	34%
3660g/m2	62%	58%	60%	56%	36%	32%

Light and Solar transmission information is issued as a guide only and based on interpretation of natural exposure testing. Full test information is available from FGW Corporation Ltd Topglass® Solar, Optical and Ultra Violet Transmission information is contained in the FGW Technical Catalogue see www.fgwcorp.com.au

Fire Retardant

Topglass GC can be supplied as fire retardant sheeting. See Topglass FR Page 8.

Safety

To comply with the requirements of AS/NZS 1562.3: 1996 Part 3 Plastic, translucent roofing products are classified as "Brittle Roofing" and therefore not suitable to support foot traffic.

Severe Corrosion Environments

In areas where corrosion is severe Topglass GC can be manufactured using a special purpose Vinyl Ester corrosion-resistant resin system.

Specification

The Translucent roofing shall be Topglass GC (Insert tint/colour) reinforced Polyester roof sheeting as manufactured by FGW Corporation Pty Ltd to comply with AS/NZS 4256.3: 1994

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: 1996, Topglass® technical literature and FGW Corporation Technical Catalogue.

Warranty

Topglass GC is supported by a comprehensive 25 year warranty. For written project warranties, contact FGW Corporation Pty Ltd.

Manufactured

These products are manufactured by FGW Corporation Pty Ltd at 14 Reihill Road Maddington WA under license to Alsynite New Zealand.



WARRANTY

Topglass GC 2400gsm series

FGW Corporation Pty Ltd warrants Topglass GC 2400gsm for a period of:

A period of 25 years (pro rata cover) for the following:

1. The product will not allow water to penetrate through the solid sheet.
2. The product will not delaminate.

A period of 10 years (pro rata cover) for the following:

1. Topglass GC shall remain hail resistant for any hailstones with a diameter up to 20mm in winds up to 100km/hr. We warrant that the sheet shall remain in usable condition and remain leakproof.
2. Discolouration and loss of light transmission due to the yellowing of the sheet is covered only if 12% or more of the original sheet colour has been lost and only if due to yellowing that a loss of 12% or more of original light transmission.

Warranty conditions

1. The product must be installed in accordance with the AS/NZS 1562.3:1996 plastic building sheets - general installation requirements and design of roofing systems as well as the manufactures requirements when installed below a latitude of 20 (degrees) South of the equator, installations above this latitude will be covered by individual warranty based on area climate conditions.
2. The product is maintained is kept clean and free of surface debris and atmospheric contaminants.
3. The product does not suffer from any mechanical or other damage by agents or chemicals during handling , storage, fixing, and after installation.
4. Any sheet failure due to natural disaster eg fire, gale force winds, improper installation and or vandalism are not covered.
5. Cost of removal and reinstallation are not covered, however replacement sheets will be granted on a pro-rata calculation, only after the damaged sheets are returned to the manufacturer for assessment.
6. The warranty is not transferable and the original proof of purchase must be presented with any claim.

Technical Information

Load Span Capabilities (Recommended for wind loads up to 1kpa)

Grade	1800g/m ²	2400g/m ²	3050g/m ²	3660g/m ²
Profile (to match)				
Corrugated, Custom Orb	1.000(s)	1.200	1.500	1.700
5 Rib (Trimdek etc)	1.200(s)	1.500	1.700	2.000
Spandek		1.600	2.000	2.300
Longspan		1.600	2.000	2.300
Kliplok 406		1.400	1.700	2.000
Kliplok 700		1.400	1.700	2.000
LT7		1.700	2.000	2.300
Quick Rib 900		1.500	1.700	2.000
Speed-Dek		1.400	1.700	2.000
Super Six		1.500	1.650	1.900



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See our website www.fgwcorp.com.au

or see your nearest distributor for more information

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