



 **Topglass[®]**

translucent
roofing
& rotary turbine ventilators

 **STEEL & TUBE**
ROOFING PRODUCTS


ALSYNITE
creating natural light

Company Profile

ALSYNITE – Providing New Zealand's Clear Roofing Solutions

Alsynite, a name synonymous with the manufacture and provision of innovative, clear roofing solutions, commenced manufacture in New Zealand in December of 1996. Since commissioning this "state of the art" manufacturing plant based in Te Rapa, Hamilton, the company has rapidly become New Zealand's largest and most respected manufacturer of domestic, commercial and industrial translucent roof sheeting.

Alsynite continues to maintain the highest standards of manufacturing processes, supplying Australasia's widest range of project specific translucent roofing products. Fully computerised and automated production lines, with advanced forming and cutting equipment, produce sheeting of high clarity manufactured in New Zealand for New Zealand conditions.

Alsynite takes particular pride and satisfaction from its recent accreditation under the Benchmark Certification Scheme and the subsequent awarding of the ConformanceMark Trademark for use with the Topglass® Products. Recognised in seventy (70) countries, and providing security in respect to our customers, the ConformanceMark not only guarantees accurate systems process, but also ensures consistent and monitored manufactured product in meeting the requirements of AS/NZS 4256.3:1994

In March 2002 the company assumed sole marketing and distribution rights for Laserlite® Polycarbonate products. These products form a natural adjunct to the translucent sheeting range and ensure that Alsynite NZ Ltd remains a truly respected and trusted supplier.

As the Alsynite product range is varied enough to meet any sheeting or ventilation application, products are in demand worldwide. Continued steady export growth through the South Pacific, Asia and South America remains an important facet of the company's overall business.

Alsynite NZ Ltd now has branches in Hamilton (Head Office) and Christchurch. New distribution outlets opened in 2003 at Invercargill and Palmerston North to meet the current rate of growth. Expected export growth, further development of the Laserlite® brand, and rapid advancement in manufacturing technology ensures Alsynite NZ Ltd is destined to further develop its success as a customer-focussed manufacturer and marketer of quality roofing and cladding products.



Successful Projects Using Topglass® Products

Topglass®	Placemakers, Whakatane
Topglass®	Superyacht Building Facilities in Whangarei, Hobsonville and Tauranga
Topglass Ultra®	Bio Extract Plant, New Plymouth
Topglass Ultra®	Mainfreight Freight Operations, Hamilton
Topglass Ultra® FR	Bunning Stores, Nationwide
Topglass FR	Blue Bird Factory, Auckland
Topglass Cool	Turners and Growers, Wellington
Topglass Cool	Turners Auctions, Auckland
Topglass Cool	Carters Bulk Paper Store, Te Rapa, Hamilton
Topglass Cool	Harvey Norman Super Centre, Mt Wellington
Topglass Cool	North Harbour Indoor Tennis Stadium (twin skin)
Topclad	Ravensdown Fertiliser Works
Topclad	Perrys Galvanising Plant, Avondale
Topclad	Rotorua Waste Treatment and Compost Plant
Topclad	Kariori Pulp Mill Effluent Treatment Tank
Topglass Extreme	James Hardie Super Bulk Store
Topglass Traffic	READAC Centre, Seaview
Topglass Traffic	Sir Edmund Hillary School, Otara

Contents










For handling, installation and further technical details refer to the Alsynite Technical Catalogue or visit www.alsynite.co.nz and www.laserlite.co.nz

To the best of our knowledge, all information contained herein is correct at the time of printing. It should not be treated as a substitute for detailed information available in the Alsynite Technical Catalogue or website www.alsynite.co.nz

Alsynite NZ Ltd reserve the right to change, modify, or withdraw products from the market, either permanently or temporarily, at any time without notice and without incurring any liability.

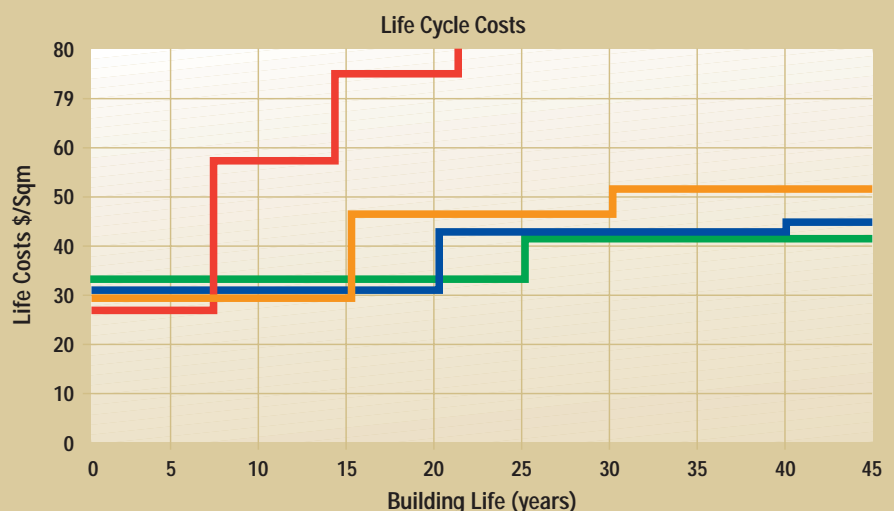
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	Topglass® UV-Stabilised Commercial Grade Reinforced Translucent Roofing	Page 4
	Topglass Ultra® High UV Resistant, Commercial Grade Translucent Roofing	Page 6
	Topglass GC Gel-Coated Roofing and Cladding	Page 8
	Topglass FR Fire Retardant Translucent Roofing	Page 10
	Topglass Cool Heat Reducing Translucent Roofing	Page 11
	Topclad Heavy Duty Corrosion Resistant Glass Reinforced Roofing and Cladding System	Page 12
	Topglass Extreme Corrosion Resistant Translucent Roof Sheetting Incorporating Du Pont Tedlar®** Surface Coatings	Page 14
	Topglass Traffic Trafficable GRP Translucent Roofing	Page 16
	Rotary Turbine Ventilators A Breath of Fresh Air	Page 17
	Installation Instructions	Page 18

Venting of Fire: In the event of fire Topglass translucent roofing products will burn and successfully provide venting to meet the requirements of NZBC C/ASI Clause 4.2.4. without causing re-ignition. The proviso is that 15% of the total roof area must be a Topglass product, distributed evenly throughout the fire cell.



This information was prepared by BRANZ using information supplied by Alsynite NZ Ltd



Introduction

Over many years a standard industrial grade, glass reinforced, polyester sheeting was the only type of GRP roofing product available to the New Zealand market. Although these types of translucent roofing products continue to perform adequately, the industry was seeking a superior product to resist New Zealand's harsh ultra violet climate. Utilising advances in fibreglass technology, Alsynite NZ Ltd worked with the company's raw material suppliers to develop a cost efficient product incorporating both UV-stabilised polyester weather surface technology and encompassing a purpose developed UV-stabilised core resin system.

Key Benefits

- Topglass® is manufactured from an acrylic modified resin system, reinforced with high quality glass fibre rovings;
- Technology developed in the United Kingdom ensures only the highest quality UV-stabilised resins and weather surface protection coating is used in the manufacturing of the Topglass® sheeting;
- Topglass® encompasses in-built UV inhibitors which prevent early degradation, yellowing and embrittlement of the sheet;
- The product is oven cured and profiled to ensure maximum binding and strength;
- The non-porous weather surface prevents water absorption and osmosis;
- Reduced fibre show in comparison to standard commercial grade translucent roofing products;
- The weather surface retains its smooth finish for a greater period of time providing self cleaning benefits;

- An extremely flexible product providing unique variation to meet design criteria;
- Topglass® is an extremely cost effective UV resistant translucent roof sheeting.

Applications

- Commercial, industrial, institutional and other projects where long-term high quality lighting is required;
- School/Kindergarten and public outdoor areas requiring excellent UV protection.

Special Applications

- Topglass® can be supplied with Du Pont Tedlar®* coating to the underside of the sheeting whenever added protection is required against internal corrosive situations e.g. wool scouring plants, fertiliser stores, powder coating plants, galvanising plants, swimming pool covers, etc.

- Topglass® can be supplied tinted with variations to reduce light and heat transmission. This is recommended due to the long term clarity of the sheet;
- Topglass® roofing profiles can be supplied in reduced width sheet if so required.

Surface Coatings

Topglass® weather surface polyester coating incorporates UV inhibitors and offers protection against early yellowing and degradation of the weather surface of the sheet.

If required for specific applications and where internal corrosion is of concern Du Pont Tedlar®*, with its excellent protection against corrosive substances, can be applied to the underside of the sheeting in place of the standard 20 micron polyester film.

Colours

Topglass® is available in standard colours of Clear, White Tint, Opalescent and Woolstore. Other colours are available on request to suit specific design applications. Consult Alsynite NZ Ltd as minimum quantities apply.



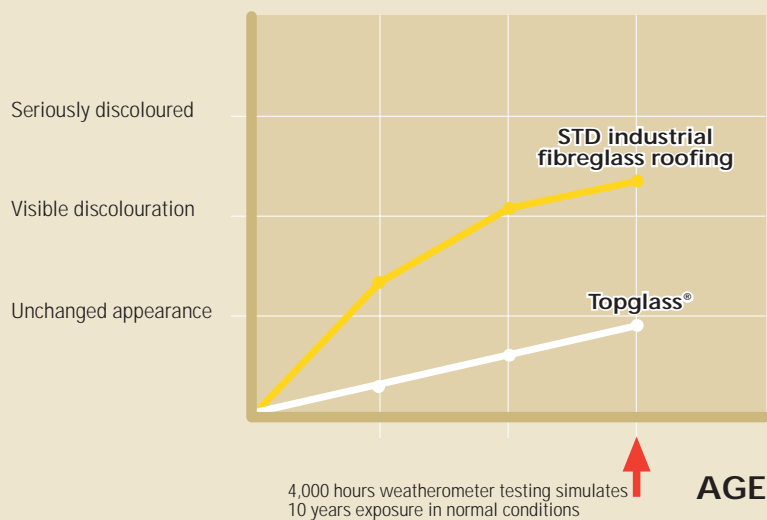
Light and Heat Transmission

Weight	Clear		White Tint		Opalescent		Woolstore	
	Light	Heat	Light	Heat	Light	Heat	Light	Heat
1800g/m ² (1.1mm)	84%	75%	78%	69%	70%	52%	49%	38%
2200g/m ² (1.3mm)	80%	70%	74%	64%	64%	50%	46%	36%
2400g/m ² (1.5mm)	74%	65%	65%	60%	58%	49%	40%	34%
3660g/m ² (2.5mm)	62%	58%	60%	56%	47%	40%	36%	32%

Light and heat transmission information is issued as a guide only and based on interpretation of natural exposure testing. Full test information is available from Alsynite NZ Ltd. UVA & UVB transmittance data is available in the Alsynite Technical Catalogue.



Compare the discolouration of sheeting after accelerated weathering



Topglass® out-performs conventional fibreglass materials. Topglass® retains light transmission and discolouration resistance after 4,000 hours continuous UV exposure (equivalent to 10 years in 'normal' conditions).

Specification

The translucent roofing shall be Topglass® reinforced polyester sheeting, as manufactured by Alsynite NZ Ltd to comply with AS/NZS 4256:3.1994.

The sheeting shall be manufactured to conform with the nominated roofing and cladding profile in accordance with weight (g/m²) or thickness (mm) requirements. Installation shall be carried out in accordance with AS/NZS 1562:3.1996 in a workmanlike manner.

Warranty

Topglass® is supported by a comprehensive 25 year water penetration warranty and a separate 15 year light transmission project warranty.

Refer to the Alsynite Technical Catalogue for warranty details, or contact Alsynite NZ Ltd.

Operating Temperature

The operating temperature range of Topglass® is - 40° to +110° C.

Fire Retardant

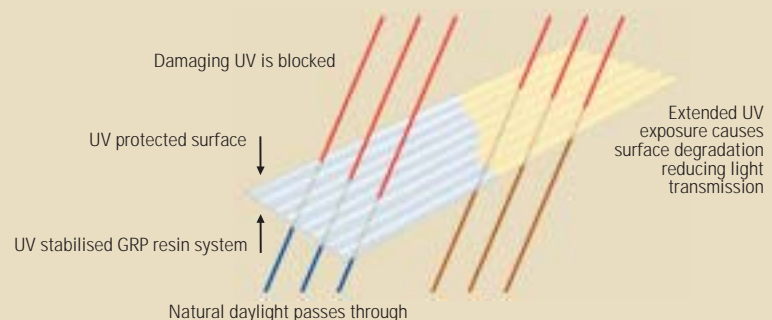
Topglass® can be supplied as fire retardant sheeting.

Trafficability

Where trafficability is of concern refer to Topglass Traffic information in this brochure.

Weathering Performance

Topglass® incorporates UV inhibitors. Extended UV testing shows a significant reduction in UV degradation and yellowing as shown. Topglass® sheeting will have a service life of at least 25 years in normal conditions.



Topglass Ultra®

High UV Resistant, Commercial Grade Translucent Roofing



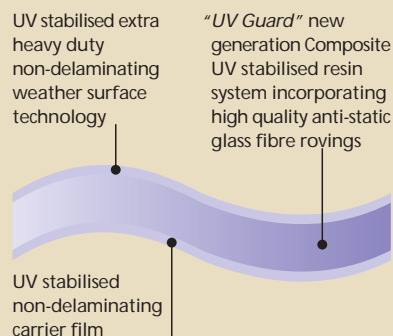
Introduction

Alsynite understands that New Zealand's high ultra violet climate poses exceptional challenges for translucent roofing products. Utilising the latest in UV stabilised weather surface technology developed by Du Pont and supported by Australasia's largest resin manufacturer, Alsynite has developed a revolutionary product appropriately branded Topglass Ultra® which successfully overcomes degradation problems as experienced in the past.

Key Benefits

- Topglass Ultra® is manufactured from a new generation composite resin system incorporating a highly UV-stabilised inhibitor known as "UV Guard" exclusive to Alsynite, which is then mixed with quality glass roving materials;
- After in-house batching of the resin achieving uniformity and extreme clarity, all roofing profiles, flat sheet and accessories, are manufactured in a continuous ultra modern and computerised production line process, achieving maximum bonding and curing of the substrate;
- The extra heavy duty non-porous weather surface prevents water absorption and osmosis;

- Reduced fibre show in comparison to standard commercial grade translucent roofing products;
- Topglass Ultra® encompasses in-built UV inhibitors which prevent early degradation, yellowing and embrittlement of the sheet;
- An extremely flexible product providing unique design criteria variations;
- New generation composite UV-stabilised resin system incorporating high quality anti-static glass fibre rovings;
- UV-stabilised non-delaminating weather surface technology;
- UV-stabilised non-delaminating carrier film.



Applications

- Roof and wall lighting to all commercial, industrial, institutional and other buildings requiring long term high quality lighting;
- School/Kindergarten and public outdoor areas requiring excellent UV protection;
- Buildings requiring specific light and heat transmission requirements.

Special Applications

Topglass Ultra® can be supplied with Du Pont Tedlar®* coating applied to the underside of the sheeting where high corrosive protection is required for the building interior.

Surface Coatings

The heavy duty UV-stabilised weather surface coating used in the manufacture of Topglass Ultra® offers excellent protection against water absorption, solar deterioration and surface embrittlement. In areas of high corrosion which may affect the underside of the sheet, consideration should be given for Du Pont Tedlar®* to be applied to the underside of the sheet.

Colours

Topglass Ultra® is available in standard colours of Clear, White Tint, Opalescent and Woolstore. Other colours are available on request to suit specific design applications. Consult Alsynite NZ Ltd as minimum quantities apply.

Operating Temperature

The operating temperature range of Topglass Ultra® is -40°C to +110°C.

Fire Retardant

Topglass Ultra® can be supplied as fire retardant sheeting.

Trafficability

Where trafficability is of concern refer to Topglass Traffic information in this brochure.

Light & Heat Transmission

Weight	Clear		White Tint		Opalescent		Woolstore	
	Light	Heat	Light	Heat	Light	Heat	Light	Heat
1800g/m ² (1.1mm)	84%	75%	78%	69%	70%	52%	49%	38%
2200g/m ² (1.3mm)	80%	70%	74%	64%	64%	50%	46%	36%
2400g/m ² (1.5mm)	74%	65%	65%	60%	58%	49%	40%	34%
3660g/m ² (2.5mm)	62%	58%	60%	56%	47%	40%	36%	32%

Light and heat transmission information is issued as a guide only and based on interpretation of natural exposure testing. Full test information is available from Alsynite NZ Ltd. UVA & UVB Transmittance Data is available in the Alsynite Technical Catalogue.



Weathering Performance

The weather surface coating and the resin core of Topglass Ultra[®] incorporate additional UV inhibitors. UV testing shows a significant reduction in UV discolouration as shown. Topglass Ultra[®] sheeting will have a service life of at least 25 years in normal conditions.

Specification

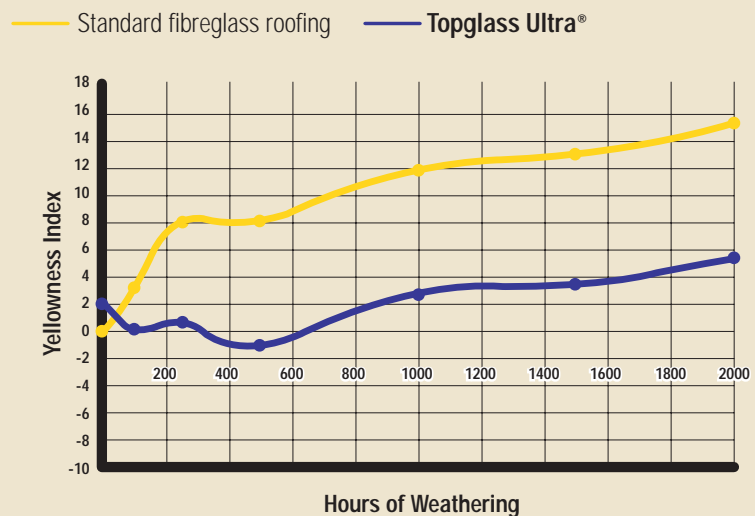
The translucent roofing shall be Topglass Ultra[®] glass reinforced polyester sheeting, with "UV Guard" as manufactured by Alsynite NZ Ltd to comply with AS/NZS 4256:3.1994.

The sheeting shall be manufactured to conform with the nominated roofing and cladding profile in accordance with weight (g/m²) or thickness (mm) requirements. Installation shall be carried out in accordance with AS/NZS 1562:3.1996 in a workmanlike manner.

Warranty

Topglass Ultra[®] is supported by a comprehensive 25 year water penetration warranty and a separate 20 year light transmission project warranty. Refer to the Alsynite Technical Catalogue for warranty details, or contact Alsynite NZ Ltd.

Compare the yellowness of sheeting after accelerated weathering



2,000 hours weatherometer testing simulates 5 years exposure in normal conditions. Full test report is available in the Alsynite Technical Catalogue.

Introduction

Traditionally glass reinforced polyester translucent roofing manufactured and supplied in New Zealand has comprised of a polyester weather surface coating and, with advancement in technology, has improved resistance against New Zealand's high ultra violet climate. Topglass GC however uses a radically different manufacturing principle in that an extra thick nominal 200 micron** gel coat is applied to the weather surface during the manufacturing process, offering very good resistance against solar deterioration and corrosive atmospheres. Topglass GC can also be supplied in "solid colours" providing an excellent alternative to traditional steel and aluminium cladding systems.

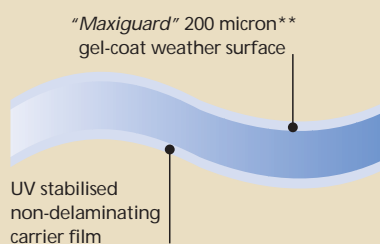


Key Benefits

- 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 "Maxiguard" 200 micron** thickness 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.

Applications

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



Special Applications

- Topglass GC can be pigmented to meet varying light transmission requirements;
- Heavy duty solid colour-fast roofing and cladding can be supplied to replace traditional cladding products for use where corrosion exists. These are manufactured as Topclad and Topglass Traffic (see product information in this brochure).

Surface Coatings

The "Maxiguard" 200 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 UV-stabilised polyester film. In areas of high corrosion which may affect the underside of the sheet, consideration should be given for Du Pont Tedlar®* to be applied to the underside of the sheet.

Colours

Topglass GC is available in standard colours of Clear, White Tint, Opalescent, Woolstore, Alsynite Green, Pool Blue, Bronze and Solar Grey. A "cool" version can be supplied using the Ultra White reflective surface film as used in the manufacture of Topglass Cool. Other colours and pigment variations are available on request to suit specific design applications. Consult Alsynite NZ Ltd as minimum quantities apply.

Heat Reducing Sheeting

Topglass GC can be supplied as a heat reflective translucent roof sheeting. See Topglass Cool in this brochure.

Operating Temperature

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



Visible Light Transmission

	Clear	White Tint	Opalescent	Woolstore	Cool	Alsynite Green	Pool Blue	Bronze	Solar Grey
1800g (1.1mm)	85%	78%	70%	50%	38%	68%	61%	48%	40%
2200g (1.3mm)	80%	74%	64%	46%	37%	62%	56%	43%	36%
2400g (1.5mm)	73%	68%	57%	43%	36%	59%	54%	41%	34%
3660g (2.5mm)	62%	60%	47%	41%	35%	44%	40%	36%	28%

Heat transmission information is contained in the Alsynite Technical Catalogue

Fire Retardant

Topglass GC can be supplied as fire retardant sheeting.

Trafficability

Where trafficability is of concern refer to Topglass Traffic information in this brochure.

Severe Corrosion Environments

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

Alternatively where extremely severe corrosive environments exist, consideration should be given to the use of Topglass Extreme (see information in this brochure).

Specification

The translucent roofing shall be Topglass GC gel-coated sheeting with "Maxiguard" 200 micron** gel coat as manufactured by Alsynite NZ to comply with AS/NZS 4256:3.1994.

The sheeting shall be manufactured to conform with the nominated roofing and cladding profile in accordance with weight (g/m²) or thickness (mm) requirements. Installation shall be carried out in accordance with AS/NZS 1562:3.1996 in a workmanlike manner.

Warranty

Topglass GC is supported by a comprehensive 20 year water penetration warranty and a separate 20 year light transmission project warranty. Refer to the Alsynite Technical Catalogue for warranty details, or contact Alsynite NZ Ltd.

Topglass FR

Fire Retardant Translucent Roofing



Introduction

One of the benefits of GRP natural lighting is that in the event of fire, the roofing burns without dropping flaming particles into the structure which cause re-ignition. At the same time heat, fumes and smoke are ventilated and the roofing web remains draped between the purlins allowing only harmless particles to fall back into the building. In instances where safer egress is required in the event of fire, the addition of fire resin systems can be included to slow the spread of flame, reduce the amount of smoke and alter the flammability point of the roofing product. Topglass FR addresses these requirements.

Key Benefits

- Topglass FR is a glass reinforced polyester fire retardant sheeting that has been specifically formulated using fire retardant materials for use in commercial building applications and educational institutions to slow the spread of flames and to reduce the level of smoke;
- The sheeting allows the transmittance of natural light into the interior of the structure while providing a fire retardance at minimal additional cost;
- Topglass FR can be specified for any industrial and commercial building that requires compliance to provide safer egress from a building in the event of fire.

Applications

- Schools and educational institutions;
- Public assembly areas;
- Combustible areas with high fire risk;
- Where egress from a building in the event of fire may be restrictive.

Special Applications

Topglass FR can be supplied incorporating the Du Pont Tedlar®* weather surface coating for extreme corrosion environments.

Surface Coatings

Topglass FR is supplied with a superior weather surface coating which has UV inbuilt inhibitors offering improved serviceable life.

In areas of extreme corrosion, the fire retardant product can be manufactured as Topglass Extreme incorporating the Du Pont Tedlar®* weather surface coating to one or both sides of the sheet.

Colours

The standard colour of Topglass FR is Neutral. Opalescent pigment can be incorporated where a heat and light transmission reduction is required.

Trafficability

Where trafficability is of concern refer to Topglass Traffic information in this brochure.

Specification

The fire retardant sheeting shall be Topglass FR as manufactured by Alsynite NZ Ltd in accordance with AS/NZS 4256:3.1994.

The sheeting shall be manufactured to conform with the nominated roofing and cladding profile in accordance with weight (g/m²) or thickness (mm) requirements. Installation shall be carried out in accordance with AS/NZS 1562:3.1996 in a workmanlike manner.

Profiles

Topglass FR is available ex stock in a limited number of roofing profiles. Refer to Technical Catalogue or contact Alsynite NZ Ltd.

Warranty

Topglass FR is supported by a comprehensive 25 year water penetration warranty. Refer to the Alsynite Technical Catalogue for warranty details, or contact Alsynite NZ Ltd.

NOMINAL COMPOSITION: FIREGLASS			
NOMINAL MASS: 1800g/m ²			
AS 1530.3-1999			
PART NO: 1 APR 92			
SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE			
RESULTS:	FACE TESTED:	BOTH SIDES	
	IGNITION TIME	MEAN	STANDARD DEVIATION
		7.18	0.25
	FLAME PROPAGATION TIME	12.1	0
	HEAT RELEASE (TOTAL)	320.1	kJ/m ²
	SMOKE RELEASE, LOG D	0.1884	0.0155
	OPTICAL DENSITY, D	1.2885	/m
	NUMBER OF SPECIMENS (LIMITED): 6		
	NUMBER OF SPECIMENS TESTED: 6		
REGULATORY INDICES:	IGNITABILITY INDEX	13	RANGE 0-20
	SPREAD OF FLAME INDEX	8	RANGE 0-10
	HEAT RELEASE INDEX	18	RANGE 0-100
	SMOKE DEVELOPED INDEX	8	RANGE 0-10

AWTA Textile Testing: Test Report No. 7-487161-CO

Full report is available in the Alsynite Technical Catalogue

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 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 air-conditioning 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;
- During the winter months the properties of Topglass Cool ensures valuable heat within the building is retained for longer periods 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.

Special Applications

Topglass Cool can be installed above mezzanine floors to vent out heat, fumes and smoke in the event of fire whilst maintaining a relatively cool environment within the building.

Reflective Surface

Topglass Cool has an Ultra White reflective surface coating applied to the underside of the sheet. 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

Alsynite NZ Ltd has provided a range of options to meet individual design criteria. These are:

- "Maxiguard" 200 micron** gel-coat;
- Topglass UV-stabilised polyester coating;
- Du Pont Tedlar®* PVF coating for high corrosive environments.

All these surface coatings provide improved weathering performance and result in extended sheet life.

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

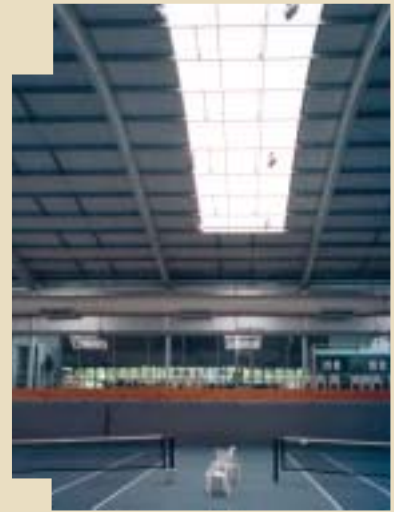
Topglass Cool can be supplied as fire retardant sheeting.

Trafficability

Where trafficability is of concern refer to Topglass Traffic information in this brochure.

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%



Specification

The translucent roofing shall be Topglass Cool, Topglass Cool Ultra, Topglass Cool GC, or Topglass Cool Extreme (specify one) reinforced polyester sheeting as manufactured by Alsynite NZ Ltd to comply with AS/NZS 4256:3.1994.

The sheeting shall be manufactured to conform with the nominated roofing and cladding profile in accordance with weight (g/m2) or thickness (mm) requirements. Installation shall be carried out in accordance with AS/NZS 1562:3.1996 in a workmanlike manner.

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 water penetration warranty. Refer to the Alsynite Technical Catalogue for warranty details, or contact Alsynite NZ Ltd.



Heavy Duty Corrosion Resistant Glass Reinforced Roofing and Cladding System



Introduction

In some highly corrosive industrial sites and areas of high salt contamination, high build paint coatings on roofing and cladding substrates such as aluminium and steel may not perform as expected. To meet this need, Alsynite NZ Ltd has developed a unique heavy duty roofing and cladding material utilising advanced GRP technology to formulate a corrosive resistant cladding system for use as an innovative replacement for traditional materials.

Key Benefits

- The weather surface coatings of Topclad are designed specifically to withstand corrosive atmospheres and are supplied as "Maxiguard" 200 micron** gel coat or incorporating a Du Pont Tedlar®** coating. Both products offer very good protection in corrosive environments, however to obtain the most effective protection, Du Pont Tedlar®** or "Maxiguard" 200 micron** gel coat incorporating a vinyl ester resin system should be used;
- In developing Topclad, Alsynite NZ Ltd determined that whilst corrosive resistant materials were available, most focussed on the exterior of the roof and cladding material only, when in a large number of situations, corrosion to the underside of the roofing gave the most

concern. Where corrosion is of concern to the underside of the roofing, the application of Du Pont Tedlar®** with a Clear or Shell White colour coating can be applied to the underside of the product;

- Available as Du Pont Tedlar®** Shell White and coloured gel coat finishes subject to colour availability and minimum quantity order;
- Available to match a wide range of roofing profiles;
- Long term durability;
- Both external and internal corrosion resistance;
- Lightweight cladding for easy handling and installation;
- Reduces heat build up;
- Manufactured to any length.

Applications

- Wool scouring plants;
- Fertiliser buildings;
- Poultry and animal sheds;
- Acid plants and smelters;
- Galvanising plants;
- Effluent tank cladding;
- Extreme marine environments;
- Buildings in geothermal areas;
- Compost plants;
- Tanneries.

Special Applications

- Where cost considerations are paramount and internal corrosion is considered not severe, the Du Pont Tedlar®** on the underside of the sheet can be supplemented with a commercial-grade UV-stabilised polyester carrier film;
- Fire retardant resin can be incorporated into the Topclad product.

Surface Coatings

Topclad can be supplied with the choice of Shell White Tedlar®**, Clear Tedlar®** or "Maxiguard" 200 micron** gel-coat solid colour weather surface finishes. The reverse side of gel coat can be tinted to grey if required.

Weight/Thickness of Sheeting

The standard weight for Topclad is 2800g/m² (1.9mm).

Other weights up to 4880g/m² (3.06mm) are available subject to minimum order.



Du Pont Tedlar® Laboratory Test Information:**

Hydrochloric Acid (10%)	1 year immersion at room temperature
Hydrochloric Acid (10% & 30%)	31 days immersion at 75°C
Hydrochloric Acid (10%)	2 hours immersion at boil
Nitric Acid (20%)	1 year immersion at room temperature
Nitric Acid (10% & 40%)	31 days immersion at 75°C
Sulphuric Acid (20%)	1 year immersion at room temperature
Sulphuric Acid (30%)	31 days immersion at 75°C
Acetone	1 year immersion at room temperature
Benzene	1 year immersion at room temperature
Kerosene	1 year immersion at room temperature
Toluene	31 days immersion at 75°C
Sodium Sulphide (9%)	31 days immersion at 75°C

Under test in the above environments the Tedlar®* coating has shown no significant change in tensile strength, elongation to break or pneumatic impact system.

Colours

The standard colour of Topclad is Shell White Tedlar®* which can also be applied to the underside of the sheet. Other solid colours are available on request to suit specific design applications. Consult Alsynite NZ Ltd as minimum quantities apply.

Operating Temperature

Topclad will not become brittle with age and will not soften or crack within the designed temperature operating range of -30°C to +70°C.

Fire Retardant

Topclad can be supplied as fire retardant sheeting.

Trafficability

Where trafficability is of concern refer to Topglass Traffic information in this brochure.

Moisture

Topclad is not considered suitable where continuous contact with moisture is prevalent, although adequate ventilation in this situation may alleviate problems. Refer to the Alsynite Technical Catalogue, or contact Alsynite NZ Ltd.

Thermal Expansion

$2.2 \times 10.5 \text{ cm} / \text{cm} / ^\circ\text{C}$

E.g. 7m long sheet with a 40°C temperature change = $2.2 \times 10.5 \times (10 \times 100) \times 7 \times 40 = 6.16\text{mm}$ per 7m length at 40°C temperature rise.

Chemical Resistance

- Topclad has no known chemical reaction with any construction materials;
- The sheeting is resistant to solar deterioration and most corrosive atmospheres;
- Unaffected by solvents, including hydrocarbons, and provides excellent resistance to most corrosive acids and alkalis.

Specification

The roof sheeting/cladding shall be Alsynite Topclad reinforced corrosion resistant roof sheeting as manufactured by Alsynite NZ Ltd to comply with AS/NZS 4256:3.1994.

The sheeting shall be manufactured to conform with the nominated roofing and cladding profile in accordance with weight (g/m²) or thickness (mm) requirements. Installation shall be carried out in accordance with AS/NZS 1562:3.1996 in a workmanlike manner.



Flashings

For flashings information contact Alsynite NZ Ltd.

Product Handling

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

Warranty

Topclad is supported by a comprehensive 25 year water penetration warranty. Refer to the Alsynite Technical Catalogue for warranty details, or contact Alsynite NZ Ltd.

Topglass Extreme

Corrosion Resistant Translucent Roof Sheeting
Incorporating Du Pont Tedlar®* Surface Coatings



Introduction

Topglass Extreme offers long term light transmission benefits whilst providing maximum protection in high corrosive environments. Topglass Extreme comprises of an acrylic modified polyester resin system which is, in turn, reinforced with high quality glass rovings. Ultimately the product draws its excellent corrosion resistance from its weather surface protected Du Pont Tedlar®* coating which prevents atmospheric pollutants from attaching and then degrading the product. Topglass Extreme also has the added advantage of providing virtually 100% UVA and UVB protection.

Key Benefits

- Resistant to most corrosive acids and alkalis;
- Non-porous weather surface prevents water absorption and osmosis;
- Unaffected by solvents and most corrosive substances;
- Resistant to solar deterioration;
- Excellent long term light transmission;
- 100% UVA and UVB protection through the sheet;
- Topglass Extreme uses the extra protection of the Du Pont Tedlar®* coating applied to either one or both sides of the sheet to give maximum protection in severe corrosive atmospheres;
- Proven in New Zealand's harsh UV climate for 25 years.

Applications

- Smelters, wool scourers, galvanising, composting plants, fertiliser storage buildings, and waste treatment facilities;
- Swimming pool covers;
- All commercial, industrial, institutional and other buildings requiring long term effective light transmission;
- Salt-laden environments;
- School/Kindergarten and public outdoor areas requiring maximum protection against UV exposure.

Special Applications

- In order to extract the maximum long term benefit from the product in installations such as swimming pool roofing, fertiliser stores, etc where internal corrosion is of concern, it is important that the standard 20 micron polyester film on the underside of the sheet be replaced with Du Pont Tedlar®* for maximum corrosion protection.

- Topglass Extreme can be supplied in Clear or tinted to White Tint, Opalescent, Woolstore or Pool Blue grades to meet design criteria. Due to the excellent light transmission through Topglass Extreme, it is important that the pigmented options are considered due to the possibility of excessive heat and glare being transmitted.

Colours

Other colours are available on request to suit specific design applications. Consult Alsynite NZ Ltd as minimum quantities apply.

Operating Temperature

The operating temperature range of Topglass Extreme is -40°C to +110°C.

Fire Retardant

Topglass Extreme can be supplied as fire retardant sheeting.

Trafficability

Where trafficability is of concern refer to Topglass Traffic information in this brochure.

Stains

The self cleaning and smooth surface of Tedlar®* coating provides excellent resistance. During laboratory tests, Tedlar®* resisted staining from Iodine, citrus juices, grease, Mercurochrome, Carters black ink and even where the product has been buried in the soil for five years.

Biological Resistance

Topglass Extreme is resistant to micro-organisms and resists the build-up of fungi and mildew.

Light and Heat Transmission

Weight/Thickness	Clear		White Tint		Opalescent		Woolstore	
	Light	Heat	Light	Heat	Light	Heat	Light	Heat
1800g/m ² (1.1mm)	89%	76%	78%	69%	70%	52%	49%	38%
2200g/m ² (1.3mm)	81%	70%	74%	64%	64%	50%	46%	36%
2400g/m ² (1.5mm)	74%	65%	65%	60%	58%	49%	40%	34%
3660g/m ² (2.5mm)	62%	58%	60%	56%	47%	40%	36%	32%

Also available in Pool Blue – figures on application, contact Alsynite NZ Ltd.

Light and heat transmission information is issued as a guide only and based on interpretation of natural exposure testing.

Du Pont Tedlar®* Laboratory Test Information:

Hydrochloric Acid (10%)	1 year immersion at room temperature
Hydrochloric Acid (10% & 30%)	31 days immersion at 75°C
Hydrochloric Acid (10%)	2 hours immersion at boil
Nitric Acid (20%)	1 year immersion at room temperature
Nitric Acid (10% & 40%)	31 days immersion at 75°C
Sulphuric Acid (20%)	1 year immersion at room temperature
Sulphuric Acid (30%)	31 days immersion at 75°C
Acetone	1 year immersion at room temperature
Benzene	1 year immersion at room temperature
Kerosene	1 year immersion at room temperature
Toluene	31 days immersion at 75°C
Sodium Sulphide (9%)	31 days immersion at 75°C

Under test in the above environments the Tedlar®* coating has shown no significant change in tensile strength, elongation to break or pneumatic impact system.



Specification

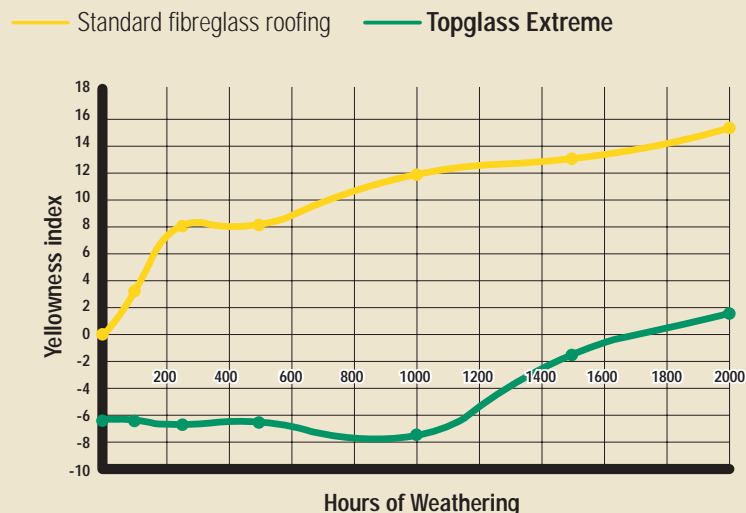
The translucent roofing shall be Topglass Extreme glass reinforced polyester sheeting as manufactured by Alsynite NZ Ltd to comply with AS/NZS 4256:3.1994.

The sheeting shall be manufactured to conform with the nominated roofing and cladding profile in accordance with weight (g/m²) or thickness (mm) requirements. Installation shall be carried out in accordance with AS/NZS 1562:3.1996 in a workmanlike manner.

Warranty

Alsynite NZ Ltd offers a comprehensive 25 year water penetration warranty, and a separate 15 year light transmission project warranty. Refer to the Alsynite Technical Catalogue for warranty details, or contact Alsynite NZ Ltd.

Compare the yellowness of sheeting after accelerated weathering



2,000 hours weatherometer testing simulates 5 years exposure in normal conditions. Full test report is available in the Alsynite Technical Catalogue.

Topglass Traffic

Trafficable GRP Translucent Roofing

Introduction

To comply with the requirements of AS/NZS 1562:3.1996 Part 3 Plastic, all translucent roofing products must have safety mesh installed under the sheeting unless specifically designated as being of trafficable grade. Details including any allowable variations are promulgated in the Alsynite Technical Catalogue. Test information to meet the requirements of trafficable grade is covered in AS/NZS 4040:4.1996 Sand Impact Test.

Alsynite recognises that specifiers may wish to dispense with the use of safety mesh while still providing safer work areas for roof traffic. Topglass Traffic, which doubles as a heavy duty corrosive resistant natural light or coloured roofing and cladding product, has been developed specifically to meet these requirements.

Key Benefits

- Topglass Traffic is manufactured utilising a purpose-designed heavy duty polyester UV-stabilised resin system, coupled with a glass fibre matrix to form an extremely strong product with a tensile strength of greater than 130MPa;
- The product is formulated and manufactured on a computerised continuous production line using a unique process to ensure thorough “wet out” of the glass core, ultimately achieving maximum bonding and strength;
- Non-delaminating surface technology offers many years of effective use, with the product resisting the harshest of corrosive environments and weather degradation;
- Extremely durable, heavy duty GRP roofing product;
- High impact resistance;
- Resistant against corrosion and surface deterioration;
- Superior 25 year warranty.

Applications

- Corrosive environments where the installation of safety mesh is not required;
- Where safety is paramount, and a danger exists that a workman may fall through sky lighting;
- Heavy duty natural light or coloured roofing and cladding product for use in corrosive environments.

Specification

The translucent roofing shall be Topglass Traffic heavy duty glass reinforced polyester sheeting as manufactured by Alsynite NZ Ltd to comply with AS/NZS 4256:3.1994.

The sheeting shall be manufactured to conform with the nominated roofing and cladding profile at a thickness and strength meeting the test requirements of AS/NZS 4040.4.1996 and AS/NZS 1562.3.1996. Installation shall be carried out strictly in accordance with Alsynite Installation Instructions.

Weight/Thickness of Sheeting

Typically, commercial roofing profiles need a weight of 3660g/m² (2.5mm) to meet the test requirements of AS/NZS 4040.4.1996. Theoretically, a lighter weight product may meet the sand bag test requirement at a given purlin spacing, however consideration must be given to the actual performance of the sheet including weakening or other damage which could be expected over the life of the sheet when installed on the building over a considerable period of time.

Other weights up to 4880g/m² (3.06mm) are available subject to minimum order.

Light Transmission

Due to the thickness of the product, natural light transmission through Topglass Traffic will be reduced in comparison to standard weight sheeting, and accordingly the percentage of roof lighting may need to be increased to meet ideal design requirements. Contact Alsynite NZ Ltd for further details.

Colours

Topglass Traffic is available in standard colours of Clear, White Tint, Opalescent and Woolstore. Solid colours are available on request to suit specific design applications. Consult Alsynite NZ Ltd as minimum quantities apply.

Operating Temperature

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

Fire Retardant

Topglass Traffic can be supplied as fire retardant sheeting.

Warranty

Topglass Traffic is supported by a 25 year water penetration warranty. Refer to the Alsynite Technical Catalogue for warranty details, or contact Alsynite NZ Ltd.



Rotary Turbine Ventilators

A Breath of Fresh Air

Introduction

Factories, warehouses, workshops, houses and even community buildings are frequently constructed without an efficient natural ventilation system for the benefit of occupants.

Should the interior become hot or stale, doors and windows can be opened, however stale and hot air will not disperse by itself. As a result the opening of doors and windows is simply not sufficient to provide ventilation in most buildings.

Unlike doors, windows and static ventilation, Rotary ventilators draw air upwards creating a convection current and in the process they extract stale air, together with air which has become hot as the result of the building's exposure to long hours of sunlight. Heat from manufacturing equipment within the building is also extracted by these efficient ventilators. As the stale and hot air is extracted it is replaced by fresh air at ambient

temperature entering through doorways and openings thus completing the convection cycle current and improving the internal environment.

Needless to say, fresh air makes people feel more alive and vital whilst stale air causes people to feel lethargic and disinterested. On hot days the movement of air over the body causes evaporation to occur which is the natural way to cool down and helps prevent moderate heat stress.

Alsynite Turbine Ventilators also help prevent condensation by extracting condensation-forming air, and in case of fire will extract smoke and fumes, preventing the building from becoming smoke filled and assisting the occupants to escape to safety.

Ventilation is the natural partner to Alsynite roof sheeting.

Key Benefits

- Low cost;
- Silent running;
- Robust aluminium construction;
- Easy to install;
- Fresh air provides a healthy work environment;
- Removes smoke and fumes;
- Removes damp stale air.

Construction

All Alsynite ventilators are constructed from mill finish high grade aluminium alloy (grade 5005-H34) and utilise long life free running stainless steel bearing systems.

Calculating Vent Requirements

Refer to the Alsynite Technical Catalogue for full calculation charts or contact Alsynite NZ Ltd.

Variable Pitch Base and Flashing

All ventilators, with the exception of 150mm and 800mm throat Alsynite Industrial ventilators, are supplied with a variable pitch base and base flashing which is simply adjusted and fixed in position to suit the pitch of the roof. 150mm and 800mm throat Alsynite Industrial ventilators can be fitted with purpose-made aluminium bases and in the case of the 150mm version can be attached to a pipe penetration. Refer to the Alsynite Technical Catalogue for full details.

Colours

Powder coating options are available to match modern roof colours. Colours are promulgated in the Dulux Powdercoating colour range brochure. Note: Ventilators not supplied or powdercoated by Alsynite NZ Ltd will result in the warranty being void.

Installation Instructions

Each ventilator is supplied with assembly and installation instructions. Refer to the Alsynite Technical Catalogue for full installation instructions.

Maximum Roof Pitch

Factory Supplied Variable Pitch Base

Spinaway	Roofvent	Alsynite Industrial
45°	22.5°	22.5°

Accessories

- Manual, draw-cord and powered damper systems available on request;
- White acrylic adjustable ceiling vents are available for use with the Spinaway ventilator;
- Purpose-made ventilator bases can be manufactured for "through ridge" installations and for use with the 150mm and 800mm throat Alsynite Industrial ventilators which are supplied without the variable pitch base i.e. head only.

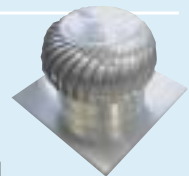
Spinaway

300mm throat. Passive ventilation of roof cavities in homes & offices. Excellent silent running passive turbine ventilator for removing smoke, damp, hot and stale air. Supplied ready to install. High quality bearing system. Warranty*: 15 Years.



Roofvent 500

Light commercial and residential applications. Economically priced, the Roofvent 500mm throat is maintenance free, rotating freely and reliably due to the permanently lubricated bearing system. Warranty*: 10 Years.



Alsynite Industrial Ventilators

150mm, 300mm, 450mm, 600mm & 800mm throats. Passive ventilation of commercial & industrial buildings. A robust silent running passive turbine ventilator for removing smoke, damp, hot and stale air. High quality bearing system supplied ready to install. Warranty*: 15 Years.



*Warranty periods stated herein are subject to strict adherence to installation instructions. Refer to Alsynite Technical Catalogue for more information.

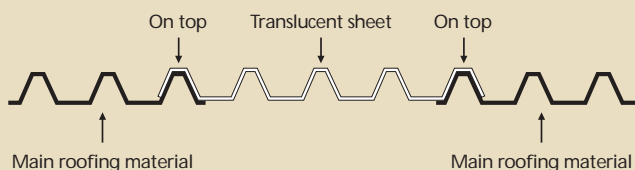
Installation Instructions

Product Handling and Storage Instructions for All Products

- Store sheeting in a dry location and protect from possible wind damage prior to installation.
- Sheeting should not be dragged across objects or other products as it may affect the performance and aesthetics of the roof sheet.
- Care should be taken when loading the translucent roofing onto the roof to avoid bending or distortion of the sheet.
- Sheeting that becomes wet in bundles and is required to be stored should be separated and dried prior to storage.

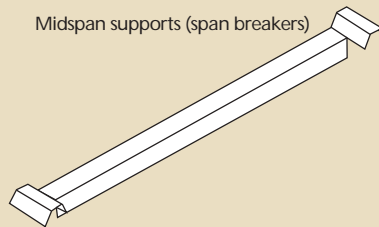
Recommended Installation Guidelines

- Sheeting may be cut using an abrasive disc or fine tooth saw (use protection gloves and approved face mask).
- To meet the requirements of AS/NZS 1562:3.1996, safety mesh must be installed under all translucent roofing. Alternatively Alsynite Topglass Traffic heavy duty trafficable product can be used. Refer to Figure 1.
- A barrier strip must be installed between the translucent roof sheeting and the safety mesh at the purlin line. Refer to Figure 1.
- Ensure the purlins are correctly spaced and that they are in line.
- GRP fibreglass roofing should always be installed over the main roof cladding at both lapping edges.



- Ensure the weight/thickness of the sheet combined with the selected roofing profile will meet the spanning requirements as defined in the Load Span graph displayed in this brochure.
- Ensure that the correct weathering surface of the sheeting is uppermost as the durability and any warranty is dependent on placing the sheet the correct side up.

Midspan supports (span breakers)



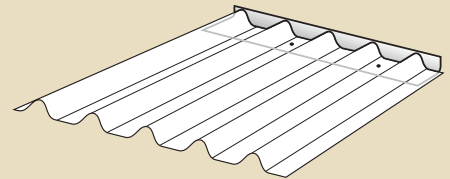
- Where spans exceed data displayed in the Load Span graph, mid span supports should be installed at appropriate intervals. They should be of a length to allow them to extend a minimum of 0.400m under the adjacent metal roofing sheets. Mid span supports are not designed to support foot traffic. Mid span supports shall not be used where more than two translucent roof sheets are to be laid side by side.

Stop Ends

Install stop ends to the top of the translucent sheeting as follows.

Method 1

Roof pitch is 3 degrees to 15 degrees.



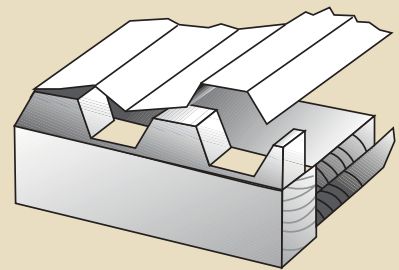
Use a right-angled folded flashing to the full height of the corrugation or rib, fixed with rivets and sealant.

- Severe conditions: Use 0.9mm aluminium.
- Moderate conditions: Use pre-painted metal.

Note: This can also be used in an exposed site or high or very high wind zone for steeper pitched roofs.

Method 2

Roof pitch is above 15 degrees.



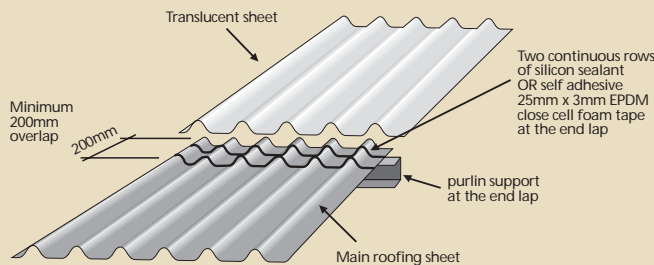
Use Alsynite approved closed cell profiled foam strip fitted close to the screw fixing points.

Sealants

- The use of silicone should be restricted to end laps only as when set the sealant restricts the ability of the sheet to expand and contract. Where side laps are required to be sealed, consideration should be given to the use of one side self-adhesive closed cell lap seal tape.

End Laps

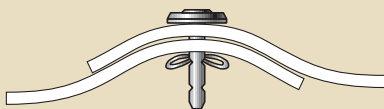
- Minimum recommended length of end lap of GRP sheets and/or with metal profile sheeting is 200mm.
- Position of lap over purlin - it is recommended the bottom end of the lap sheet be within 50mm of the lower side of the purlin.
- Position of the seal - the bottom bead should be within 25mm from the bottom of the top sheet in lap, and the top bead of seal within 50mm of the top of the bottom sheet.



Side Lap Fixing

Side laps should be fixed at a maximum spacing of 600mm to prevent wind uplift and leakage, and these fixings shall be through the top of the rib.

- When fixing GRP to metal, pre-drill the appropriate oversize hole in the GRP and screw through the centre of the hole into the metal using a self drilling hex head screw 12g or 14g complete with load spreading washer and 36mm EPDM sealing washer.
- When fixing GRP to GRP use a bulbrite rivet 6-4w through the top of the rib of the GRP sheets



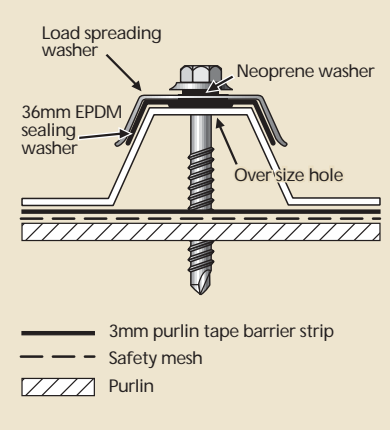
Fastener and Sealing Washer Recommendations

The fastener shall be as for the main roof cladding and will be used in conjunction with an Alsynite load spreading washer constructed of 0.95mm unpainted/prepainted metal or 1.2mm aluminium to match the main cladding material. In a highly corrosive environment, consideration should be given to the use of stainless

steel or other appropriate corrosive resistant material.

Inserted under the load spreading washer will be a 36mm EPDM sealing washer which is to be correctly seated to provide an effective seal. Fasteners should be inserted through the top centre of the rib/corrugation.

Figure 1



Other fastening methods may be suitable based on sheet length and load characteristics. Alsynite NZ Ltd should be contacted for further clarification and advice.

- All fastener holes should be pre-drilled over-size to accommodate the expansion and contraction of the sheets as follows:

Sheets up to 6m	8mm Ø hole
Sheets 6 to 9m	10mm Ø hole
Sheets 9 to 12m	12mm Ø hole
Sheets 12 to 28m	16mm Ø hole

Note: It is important to centre the fixing in the oversize hole to ensure the sheet has equal movement around the fixing.

Fastener Pattern

- Corrugated profile end supports and end laps: Fix side laps and every 2nd corrugation.
- Corrugated profile internal supports or purlins: Fix side laps and every 3rd corrugation.
- 5 rib low trapezoidal profiles (19mm to 30mm): On all purlins fix every rib.
- 5 rib high trapezoidal profiles (50mm to 65mm): On all purlins fix every rib.
- 7 to 8 rib medium trapezoidal profiles (33mm to 38mm) end support and end laps: Fix every rib.
- 7 to 8 rib medium trapezoidal profiles (33mm to 38mm) internal support or purlins: Fix side laps and every 2nd rib.

Note: In very high wind load areas, contact Alsynite NZ Ltd for specific recommendations. Do not overdrive the fasteners so that deformation of the sheet occurs.

Further Technical Assistance

The installation instructions are a guide to assist with installation of translucent roof sheeting. However, this should be read in conjunction with the full technical information contained in the Alsynite Technical Catalogue.

For non-standard building design such as drape curve roofs, contact Alsynite NZ Ltd for technical advice prior to ordering product or commencing the project.

Profiles

All Topglass products are available to match common roof profiles and flat sheet, subject to minimum quantity order and raw material availability.

Colour Variation

Due to variations in raw materials shade variations can occur between manufacturing batches.

Weight/Thickness of Sheeting

Alsynite GRP roofing products can be manufactured in varying thicknesses:

Roof profiles: 1200g/m² (0.9mm) – 4880g/m² (3.06mm)

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

Sheet Lengths

As Topglass products are manufactured in New Zealand, all roofing profiles can be manufactured up to 28 metres in length ensuring elimination of end laps.

ALSYNITE® creating natural light	Sequelite	Topglass®	Topglass Ultra®	Topglass Extreme	Topglass FR	Topglass Cool	Topclad	Topglass GC	Topglass Traffic	LASERLITE® Polycarbonate		
										2000, APOLLO, XPT	Makrolon Multiwall	Flashings
Project Solutions												
Competitive priced translucent roof sheet for domestic and commercial use	•	•						•		•		
Best value translucent roof sheet with UV stabilised surface		•	•					•		•		
Long term light transmitting, UV stabilised surface		•	•	•				•		•		
100% UVA & UVB protecting translucent roof sheet				•								
Swimming pool cover and extreme corrosion resistant translucent roof sheet				•								
Fire and smoke retardant translucent roof sheeting					•							
Heat reducing translucent roof sheeting						•						
Heavy duty fibreglass roofing and cladding							•	•	•			
Coloured roofing and cladding							•	•	•	•		
Corrosive resistant translucent roof sheet				•				•	•			
Corrosive resistant coloured fibreglass heavy duty roofing and cladding							•	•	•			
Trafficable fibreglass roofing									•			
10 year warranty*											•	•
15 year warranty*	•											
20/20 year warranty*								•				
25 year warranty*					•	•	•		•			
25/15 year warranty*		•		•								
25/20 year warranty*			•									
Lifetime warranty										•		

*Refer to the Alsynite Technical Catalogue for full warranty information.

Grade	Load Span Capabilities (Based on 1.5kPa ultimate wind uplift load)							Curved roofing minimum drapecurve radius (m)	
	1800g/m ²	2000g/m ²	2200g/m ²	2400g/m ²	2800g/m ²	3050g/m ²	3660g/m ²	1800g/m ²	2200g/m ²
Sheet thickness	1.1mm	1.2mm	1.3mm	1.5mm	1.9mm	2.0mm	2.5mm	1.1mm	1.3mm
Profile (to match)									
Corrugated, Custom Orb	1.000(s)	–	1.200	1.250	1.400	1.500	1.600	3.8	4
5 Rib (Trimdeck etc)	1.200(s)	–	1.450	1.500	1.600	1.700	2.000	8	9
Plumbdek, Trimline	1.200(s)	–	1.450	1.500	1.600	1.700	2.000	8	9
MC700, MC750, MC770	1.200(s)	–	1.450	1.500	1.600	1.700	2.000	8	9
Ribline 960	1.200(s)	–	1.450	1.500	1.600	1.700	2.000	8	9
Hi Five Six Rib	1.200(s)	–	1.450	1.500	1.600	1.700	2.000	8	9
MC1000, Metric, Windek	1.200(s)	–	1.450	1.500	1.600	1.700	2.000	8	9
V Rib	1200	–	1.450(s)	1.500	1.600	1.700	2.000	12	14
ST7, Silbery7, LT7	–	–	1.700(s)	1.800	1.950	2.100	2.400	12	14
ST900, Multirib BB900	–	–	1.700(s)	1.800	1.950	2.100	2.400	12	14
Multispan, MC930, Maxispan, Steelspan	–	–	2.100(s)	2.200	2.400	2.600	3.000	16	18
Purlindek	1.900(s)	–	2.300	2.650	2.900	3.300	3.600	18	21
Deck Profiles	–	1.200(s)	1.400	1.500	1.550	1.700	2.000	16	18
Supersix	1.150(s)	–	1.400	1.500	1.550	1.650	1.950	16	17

Product spanning can be increased by installing a mid span support – or increasing weight of sheet. Based on 1.5kPa ultimate wind uplift load maximum span limits to meet the requirements of the NZ Building Code. Spans relate to intermediate purlins. Purlin spacings should be reduced for draped curving. Consult Alsynite NZ Ltd for details.

(s) denotes standard translucent roof sheet weight ex stock. For all other profiles and weights contact Alsynite NZ Ltd

Branch Locations

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East Tamaki
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Fax 09 274 8972

Hamilton
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Pukete Ind Est
Ph 07 850 9200
Fax 07 850 9330

Tauranga
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Judea
Ph 07 578 1089
Fax 07 577 0186

Wellington
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Lower Hutt
Ph 04 568 4359
Fax 04 568 6770

Christchurch
106 Antigua St
Sydenham
Ph 03 377 0994
Fax 03 377 2680

Technical helpline: 0800 333 247

Website: www.steelandtube.co.nz

Email: info@stroofing.co.nz