

TRANSLUCENT SHEETING - ROOFLITE PRODUCTS

Rooflite Fibreglass

Rooflite Fibreglass is a quality translucent fibre reinforced polyester sheet, manufactured in Domestic Grade 1200gsm and 1800gsm as well as Industrial Grades 2400gsm, 3050gsm, 3660gsm, 4200gsm and 4800gsm (gsm = grams per square metre). The sheet is produced using quality Estarez resin (UV stabilised) and is backed by a 5-year warranty for Domestic Grades and 10-year warranty for Industrial Grades.

Rooflite Warranty Plus

This is a Premium Grade, long-life fibre, reinforced polyester sheeting. It is available in Industrial Grades 2400gsm and over in all profiles. The sheet is produced to the highest standards using quality Estarez resin (UV stabilised) and laminated with premium Melinex film. The product is backed with a 25-year performance warranty against delamination and fibre show.

Rooflite Galcool

Rooflite Galcool is specialised Heat Reducing fibre reinforced polyester sheeting designed for Industrial, Commercial and Domestic areas where maximum with minimum heat is required.

The sheet is produced using premium quality raw materials and latest technology resin and surface films. Each panel allows light transmission of 38% and heat reduction of up to 70%. This is achieved by the fusion of a 25-micron Ultra White polyester film prior to the profile forming and oven curing process, giving the finished product superior heat reflection and a clean, aesthetically pleasing product with even light distribution. The product is backed by a 20-year performance warranty.

Rooflite FR

Rooflite FR is a high quality premium translucent fibre reinforced polyester sheeting produced specifically to meet the requirements where improved smoke properties are required. The sheet is manufactured using a wax free polyester resin designed for low smoke generation during fire. The sheeting also has improved weathering over standard roof sheeting when specified with 389 Melinex film.

The Rooflite manufacturing plant located at Wetherill Park in Sydney, employs the latest raw materials and processes to produce an extensive range of quality products for all applications including domestic, commercial and industrial sheeting. Rooflite products are synonymous with quality and service. Using the latest component material technology and design innovation, our manufacturing process conforms to AS/NZS 4256.3:1994.

Rooflite Gelcoat UltraTec

Rooflite GelCoat Ultratec Fibreglass is a high quality general purpose FRP that has been introduced due to the longevity of the product, it has been the main stay of the marine industry for many years and has now been developed in conjunction with Nuplex Composites and Galaxy Rooflite technical departments for the roofing industry. Both the exposed and the underside surfaces are protected by high adhesion surface coating films this combined with the 100um GelCoat coating to the top of the sheet makes for a premium product.



Metroll Newcastle

ABN 97 001 446 439
268 Macquarie Road
WARNERS BAY NSW 2282
AUSTRALIA

P: +61 (0)2 4954 5799

F: +61 (0)2 4954 0891

sales@metrollnewcastle.com.au

www.metrollnewcastle.com.au

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This proven system is backed by a 25 year performance warranty. Available in a wide range of profiles, Galaxy Rooflite fiberglass is the sensible choice for cost effective roof skylight and wall applications.

Fire Rating Properties

The following indices have been achieved:
 For AS1530 Part 3 – 1999

Ignitability Index	15
Heat Evolved Index	7
Spread of Flame Index	7
Smoke Developed Index	8

Physical Properties

Tensile Strength	85MPA
Barcol Hardness	45
Flexural Strength	90MPA
Flexural Modules	7GPA
Compressive Strength	139MPA
Shear Strength	90MPA
Impact Strength	53ICJ/M2
Thermal Expansion	1.9x105CM/OC
Specific Gravity	1.45GMS/CC
Water Absorption (24hrs)	0.24

Service Temperature Recommended; -20°C to 75°C

Light/Heat Transmission

Colour	Light Transmission	Heat Transmission
Opal	55%	65%
Clear	85%	89%

*Based on 2400gsm

Wind Load Tables

CLASS Grams/M2	2400gsm	3500gsm	3660gsm	4270gsm	4880gsm
Profile	Maximum Allowable Span mm				
Corodek	1200	1500	1600		
Trimclad	1500	1700	2000	2300	
Metrospan	1700	2100	2400	2600	2800
Metlok 500	1400	1700	2000	2300	
Metlok 700	1400	1700	2000	2300	2700



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Wind Load Tables Continued

Absolute Maximum allowable span for weight of Translucent Fibreglass Sheeting to accommodate internal purlin spacing at a maximum load of 1kpa.

The sheet weights recommended are designed to withstand the effects of columnar expansion, caused by thermal movement on the entire roof structure and to complement the metal roof specified and the supporting structure.

Rooflite Profiles

In addition to these profiles most current and superceded profiles can be supplied.

Fibreglass Profiles

CORODEK - Cover: 760mm

TRIMCLAD - Cover: 760mm

METROSPAN - Cover 700mm

METLOK 700 - Cover: 700mm - (2 female overflaps)

Polycarbonate Profiles

CORRUGATED - Cover: 760mm

TRIMCLAD - Cover: 760mm

GRECA - Cover: 760mm

Colours

Rooflite® Fibreglass Colours

Rooflite® translucent panels come in two colours: Ice Clear and Opal (White).

Colour	Light Transmission	Heat Transmission
Clear	76%	74%
Opal	69%	62%

Polycarbonate Colours

Solasafe is available in six colours: Clear, Opal, Cream, Bronze, Platinum and Ice.

Colour	Light Transmission	Heat Transmission
Clear	90%	85%
Opal	49%	44%
Cream	30%	45%
Bronze	36%	60%
Platinum	23%	17%
Ice	48%	32%

Key: 0 = full light, 10 = full shade



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Translucent sheeting is manufactured to match steel roll formed roof sheeting. It can generally be fixed utilising the same fasteners per AS/NZS 1562.3:1996. Positive fixed profiles should be fastened in the rib or crest of the sheeting in the wall cladding through the pan or valley. Fasteners should be fixed through every rib at the end purlins and laps, and alternative ribs at intermediate purlins. Fasteners for side laps are recommended for purlin and girt spans exceeding 1200mm.

Rooflite recommends the use of Weatherlok washers or similar under the head of each roof fastener. Holes should be pre-drilled using a sharp metal working bit. The diameter of the hole should be drilled 5mm larger than the diameter of the fastener to allow for expansion. For best results when cutting use a circular saw with a fine tooth blade, ensuring the sheet is held securely in place. The use of bulb tite rivets for side lap fasteners or equivalent is recommended. End laps should be a minimum of 300mm for roof and 200mm for walls. The use of a dust mask is recommended.

Safety mesh should be used under all industrial sheeting installed in roofs, using foam tape or protection strips to cushion the fibreglass sheet. When stored all materials should be under cover, in a dry and ventilated area on a horizontal flat surface. The sheet under no circumstances is to come in contact with the ground or be exposed to sunlight during storage.

Fixing specifications should be in accordance with AS/NZS1562.3: 1996 design and installation of sheet roof and wall cladding.

Rooflite Polycarbonate

Rooflite Polycarbonate has been specifically designed for easy and rapid installation. When determining how to install the sheets, consider the following criteria to obtain the best results. Fasteners should be secured without excessive tension that would deform the sheet.

In roofing applications fastening is best through the crest of the material, for walls fastening through the valleys. The use of lapseal tape and purlin tape is recommended.

All fixings must include a grey domed washer or similar to prevent seepage of water. When joining sheets, an overlap of at least one corrugation is recommended. The upper sheet in the overlap should be upwind. If an overlap is required on the sheet length we recommend the minimum of 200mm overlap. All gaskets and sealants must be compatible with polycarbonate. Consult Rooflite Office for recommended sealants for use with our products.



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