

AMPELite

Australia's largest and most experienced producer of industrial fibreglass sheeting.

- Standard grade type SC
- Premium grade 'Wonderglas GC' gel coated
- All profiles and weights.

& Special Purpose Sheeting

- SR76 Fire Retardant
- 'Cool-lite GC' Heat Reduction
- 'Webglas GC' Woven Mat reinforced



Quality
Endorsed
Company

AS/NZS ISO 9002
Licence QEC4787

About Ampelite

Established in 1969, Ampelite Fibreglass Pty. Ltd. has grown to become a leading manufacturer of GRP roofing. The modern factory is equipped with fully automatic plant to ensure uniform quality. The process includes a facility for integration of a gel coat surface with the base sheet. This premium product is marketed as 'Wonderglas GC' and offers longer life with negligible loss of light transmission. The best materials and the world's latest resin technology are used to manufacture Ampelite fibreglass sheeting. Management and key production staff have long and continuous involvement in the industry, this is your assurance of quality and informed product support.



Ampelite's complex at Dandenong.

Ampelite Industrial sheeting has a 10 year Warranty. Premium grade is Warranted 25 years.

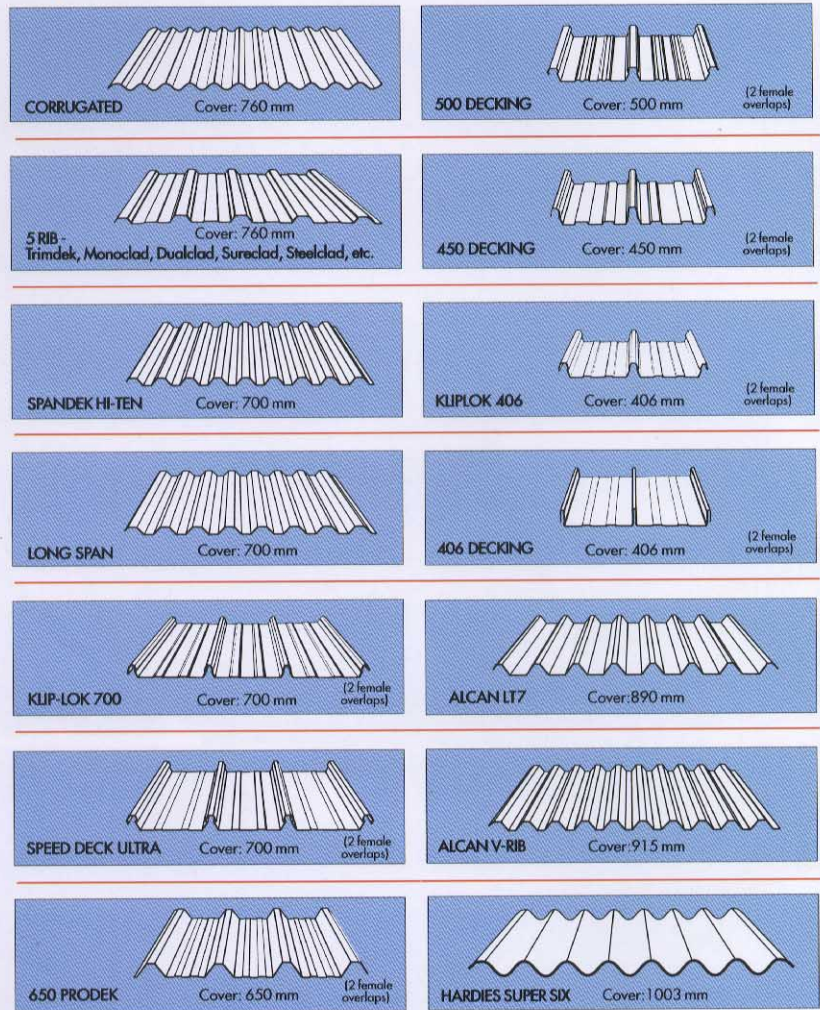
Weights

Series	Weight (Kg/m ²)
2400	2.4
3050	3.05
3660	3.66
4270	4.27
4880	4.88

Light & Heat Transmission

Colour	Series	Light	Heat
Ice clear	2400	70%	68%
Opal	2400	68%	64%

Profiles



In addition to the above profiles most current and superseded profiles can be supplied.

Specification

"The Translucent Sheeting shall be Ampelite *standard grade industrial sheeting type SC as manufactured by Ampelite Fibreglass Pty Ltd to comply with AS/NZS4256.3:1994. The weight of the sheet shall be **2400g/m² and be manufactured to conform with the nominated profile and colour. Sheeting shall be installed in accordance with Ampelite fixing instructions and with AS/NZS 1562.3:1996 Design and installation of sheet roof and wall cladding, Part 3: Plastic."

*For premium grade sheet with gel coated surface, replace with the words 'premium grade gel coated' as manufactured etc.
**Insert actual sheet weight required.

Quality

Ampelite industrial & premium grade industrial fibreglass is manufactured to AS/NZS4256.3:1994, Licence 986. Ampelite are an AS/NZS ISO 9002 QEC. N.B. Standard grade is surface protected with Melinex polyester film.

Hail Resistance

Ampelite Warrant series 2400 (and upwards) standard grade industrial fibreglass sheeting against damage from hail up to 20 mm in diameter accompanied by winds up to 100 km/hr. for 5 years. Premium grade gel coated sheeting is covered for 10 years.

AMPELITE
World Class Fibreglass

6.5 kilometres of Ampelite Series 2400



Toyota Manufacturing Plant, Altona. Material supplied: 6,500 lineal metres Series 2400, Kliplok profile.

**Fibreglass
has
excellent
stability**

**Spanning
capacity of
popular
profiles**

Physical Properties

Tensile strength	80 MPa <small>(Min. requirement 50 MPa)</small>
Impact strength	8 Joules
Shear strength	90 MPa
Modulus of elasticity	5500 MPa
Compressive strength	135 MPa
Flexural strength	150 MPa
Specific gravity	1.45
Thermal expansion	$3.0 \times 10^{-5} \text{ cm/}^{\circ}\text{C}$
Thermal conductivity	.158 watt/m $^{\circ}\text{C}$
Water absorption	.2% in 24 hrs./26 $^{\circ}\text{C}$
Curved Roof Radius, 2.400 g/m ² Corrugated & 5-Rib.	
Minimum Radius:	4.0 metres
Recommended service temperature	
Range :	-20 $^{\circ}\text{C}$ to +96 $^{\circ}\text{C}$

Installation

1. Pre-drill oversize holes to allow for expansion and contraction of sheet.
2. Use appropriate fixing assembly including a 32 mm Weatherlok seal to ensure a firm, watertight seal.
3. Apply a protective foam strip between safety mesh and fibreglass sheet at every purlin support.
4. For all end lapping, apply 2 strips of self adhesive closed cell foam strip 5 mm x 25 mm.
5. Store sheets in a dry and fire safe area. Do not stack heavy materials on sheets as they may fracture.

Materials Expansion Comparison. 0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$ temperature variation. Sheet Length 6 metres.

	Fibreglass	Polycarbonate	Steel	Aluminium
Thermal expansion	7.2 mm	16.2 mm	2.9 mm	5.8 mm
Thermal co-efficient	$3.0 \times 10^{-5} \text{ cm/cm } ^{\circ}\text{C}$	$6.75 \times 10^{-5} \text{ cm/cm } ^{\circ}\text{C}$	$1.2 \times 10^{-5} \text{ cm/cm } ^{\circ}\text{C}$	$2.4 \times 10^{-5} \text{ cm/cm } ^{\circ}\text{C}$

Series	2400	3050	3660	4270	4880
Corrugated	1200	1500	1700	-	-
5 Rib	1500	1700	2000	2300	-
Spandek	1600	2000	2300	2600	2800
Kliplok 406	1400	1700	2000	2300	2600
Kliplok 700	1400	1700	2000	2300	2600
500 Decking	1400	1700	2000	2300	2600

Unit: mm

Lite

lass Technology

Ampelite Product Information



**Premium Grade.
Warranted for 25 years.**

This revolutionary fibreglass product is new to Australia, but has been well proven in use in the United States where the special resin technology was developed by BP Chemicals.

The manufacture of the sheet is ideally suited to Ampelite's modern automatic production line, which is designed to provide precise control over all aspects of production. The gel coating is mated to the sheet resin and reinforcing fibres at a point where fibre saturation is optimal. From that coupling of the two elements, the sheet travels through profile forming and curing ovens to emerge totally integrated. No surface delamination is possible once the sheet is cured. The 'Wonderglas GC' highly UV resistant gel coat provides an almost impenetrable barrier, reducing surface erosion (fibre show) to negligible proportions.

The hard, but flexible gel coating, provides the best weathering properties ever available, and stands at the very cutting edge of world resin technology and development. Detailed brochure available.

SR76 SMOKE REDUCED FIRE RETARDANT

'SR76' meets the requirements of Australian Building Code specifications C1.10 for Class 2 to 9 buildings.

A test report showing results when tested in accordance with AS 1530.3 1989 is available on request.

The fire retardant acrylic modified resin and colouring agents used in manufacture are the very best available, and when combined with a polyester surface film makes a highly durable product. 'SR76' retains its light transmitting capability better than normal fibreglass sheeting and has even longer life. Complies with AS/NZS 4256 parts 1 & 3. This product can also be manufactured to incorporate the benefits of 'Cool-lite GC' and 'Wonderglas GC' sheeting.



Heat Reduction Sheeting
Diffused light. Reduces heat.
Saves energy. 20 year Warranty.

Scientific tests conducted by a NATA laboratory prove the effectiveness of 'Cool-lite GC' fibreglass sheeting in providing cost effective, diffused lighting while controlling heat transmission. The tests show light transmission of 38%, with total heat transmission of just 23.5%. Cool-lite is premium grade sheeting with the same UV resistant gel coated surface as 'Wonderglas GC'. Now you can turn the most powerful light source in the universe into the most effective, low cost, low temperature workplace lighting.



This product is manufactured in 3660 g/m² weight and is fibreglass reinforced by woven matting. The result is an extremely strong translucent panel that is fully trafficable and does not require safety mesh below.

The many advantages of 'Webglas GC', including high chemical resistance, make it ideal for corrosion resistant installations and public buildings or wherever it may be possible to gain access to the roof. Webglas GC is Ampelite premium grade sheeting with the same highly UV resistant gel coated surface as 'Wonderglas GC'.

Wind driven ventilators

Ampelite are manufacturers and distributors of the full range of Ampelair ventilators for the Australian market. Sizes range from 150 mm throat to 600 mm. All models (both metal and aluminium) have heavy duty construction and performance. The design of the aerofoil vanes and centrifugal force prevents the entry of rainwater. Dampers for seasonal control are available to suit all sizes.

Using ventilators to extract the hot air trapped between ceiling and roof in airconditioned buildings reduces the load on airconditioning plant and lowers power use by up to 50%. Capacity tables and formula to calculate the number of vents needed are available.

Ampelite products are covered by Warranty.

All Ampelite fibreglass sheeting and 'Ampelair' ventilators are covered by Warranties which protect your investment in the unlikely event of premature deterioration. Details of the Warranty applicable to each product are available from Ampelite state offices.



Makes light work!



AS/NZS ISO 9002
Licence QEC 4787
Standards Australia

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