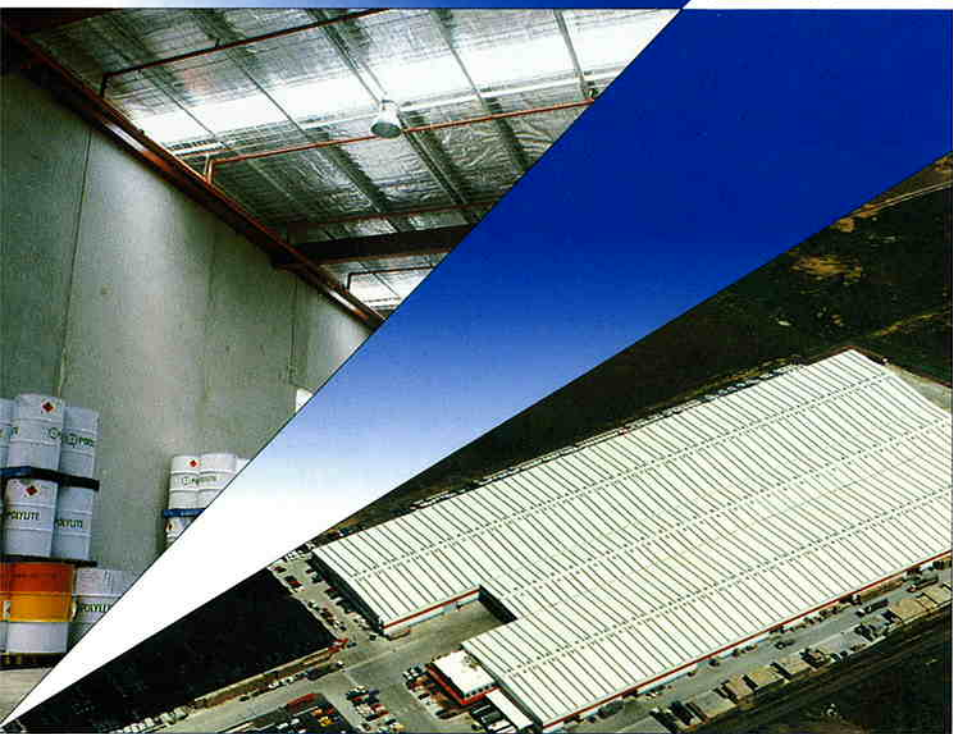




# AMPeLite



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 9001  
Licence QEC 4787

## 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.**

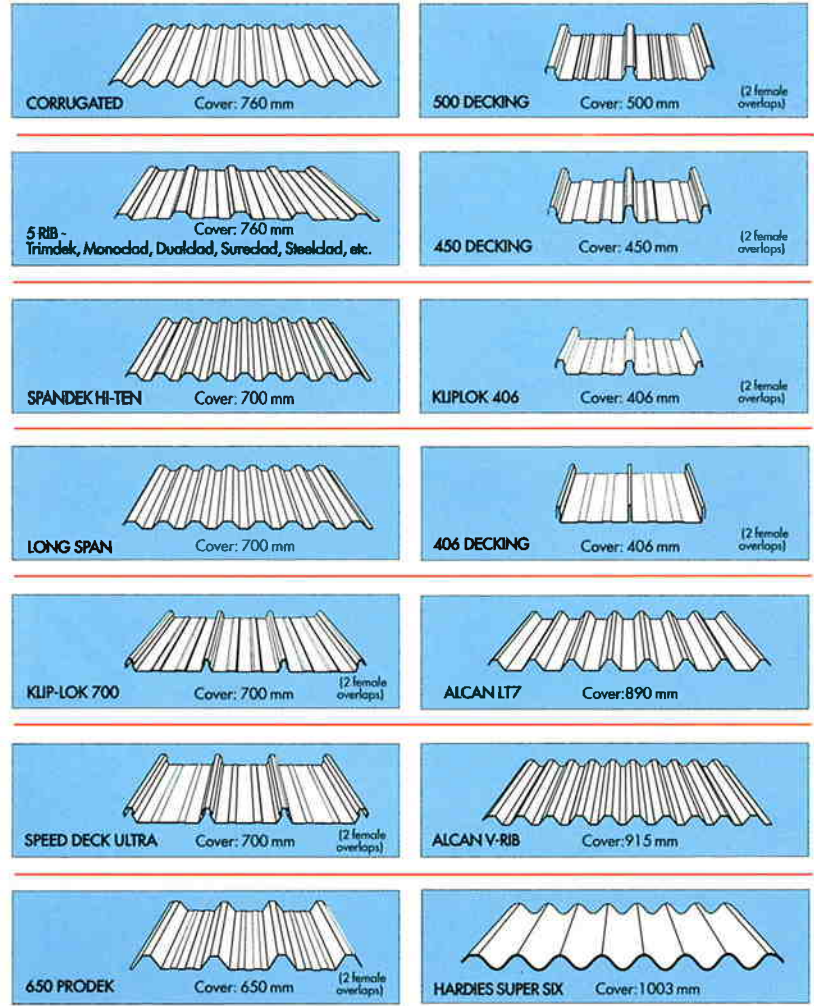
## Weights

| Series | Weight (Kg/m <sup>2</sup> ) |
|--------|-----------------------------|
| 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In addition to the above profiles most current and superseded profiles can be supplied.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/m<sup>2</sup> 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 9001 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**

Materials Expansion Comparison. 0°C to 40°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 | $3.0 \times 10^{-5}$ cm/cm °C | $6.75 \times 10^{-5}$ cm/cm °C | $1.2 \times 10^{-5}$ cm/cm °C | $2.4 \times 10^{-5}$ cm/cm °C |

**Spanning  
capacity of  
popular  
profiles**

| 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

## Physical Properties

|  |                                  |
|--|----------------------------------|
| Tensile strength   | 80 MPa (Min. requirement 50 MPa) |
| 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  | $3.0 \times 10^{-5}$ cm/°C       |
| Thermal conductivity   | .158 watt/m °C                   |
| Water absorption   | .2% in 24 hrs./26°C              |
| Curved Roof Radius, 2.400 g/m <sup>2</sup> Corrugated & 5-Rib. |                                  |
| Minimum Radius: 4.0 metres                                     |                                  |
| Recommended service temperature                                |                                  |
| Range : -20°C to +96°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.



**lass Technology**