PERMA-GLAS PLUS

INDUSTRIAL GRADE FIBREGLASS

Ampelite, New Zealand's leading manufacturer of Industrial fibreglass sheeting has utilised an advanced new 30 micron surface protection film on Perma-Glas Plus and is backed by a 25 year warranty.

- 30 microns of film means improved light transmission over a longer period of time.
- 30 microns of film means improved durability.
- 30 microns of film means improved long term resistance to yellowing and discolouration.
- 25 year warranty protection, for water penetration.
- 20 year warranty on light transmission.

Quality System
Quality Endorsed Company
AS/NZS ISO 9002
Licence QEC 4787

AMPELITE
makes light work!

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Ampelite, New Zealand's leading manufacturer of Industrial fibreglass sheeting has utilised an advanced new 30 micron surface protection film on Perma-Glas Plus and is backed by a 25 year warranty. 30 micron film offers a considerable increase in long term light transmission levels and durability performance over standard fibreglass sheeting which is protected by a 20 micron film. At Ampelite New Zealand state of the art manufacturing facility, the very best of raw materials and the latest resin technology are used to manufacture Perma-Glas Plus. As Perma-Glas Plus emerges from Ampelite's 40 metre curing ovens, stringent quality control procedures are enforced to ensure Perma-Glas Plus will meet the consistently high level of quality and performance. Perma-Glas Plus offers a 25 year water penetration and 20 year light transmission warranty.

Suitable for the following profiles

Perma-Glas Plus is available to suit the commonly manufactured profiles in New Zealand and is manufactured to comply with AS/NZ54356.3.1994, part 2. Perma-Glas Plus is suitable for curved roof applications. Curved roof radius to suit 1800g/m2 corrugated and 5 Rib minimum radius 3.8 metres. 2400 g/m2 corrugated and 5 Rib minimum radius 4.0 metres.

Specification

The Translucent Sheeting shall be Ampelite Perma-Glas Plus industrial quality sheeting, manufactured by Ampelite New Zealand Ltd, to comply with AS/NZ54256.319947, part 2. The gauge/weight of the sheet shall be _____mm/gsm and shall be manufactured to conform with the nominated profile and colour. The sheeting shall be installed in accordance with Ampelite's fixing instruction or comply with the design loading requirements of NZ4703-1992 and NZ36041-1990.

Installation

1. Pre-drill oversize holes to allow for expansion and contraction of sheet.
2. Use appropriate fixing assembly including a 32mm Weatherlock seal to ensure a firm, watertight sheet.
3. Apply a protective foam or fibreglass strip between mesh and fibreglass sheet at each purlin.
4. For endlaps, apply a self adhesive closed cell foam strip directly over the purlin between the overlapping sheets.
5. Store sheets in a dry and fire safe area. Do not store heavy materials on sheets as they may fracture.
6. Pan fixing is recommended for cladding. Fixing shall occur in every pan at ends and every other at intermediate.

Ampelite sheeting matching clip-fixed deck profiles should be side lapped with overlaps on both sides. Sheet should be installed the same as positive fixed profiled roofing.

IMPORTANT: Ampelite sheeting should be installed by pre-drilling over size holes to allow for contraction. The basic calculation shall be 0.75mm per lineal metre, plus the shank diameter of the fastener.

EXAMPLE: 10 mtr sheet - 10 x 0.75 + 4mm (fastener) = 11.5mm per drilled hole.

NOTE: All installation should comply with the design loading requirements of NZ4203-1992 and NZ3604-1990.V

Physical Properties

Tensile strength	80MPA (min requirements 55 MPA)
Impact strength	8 Joules
Shear strength	90 MPA
Modules of elasticity	5500 MPA
Compressive strength	135 MPA
Flexural strength	150 MPA
Specific gravity	1.45
Thermal expansion	3.0 x 10-5 cm/C
Thermal conductivity	0158 watt/mC
Water adsorption	.2% in 24 hrs/26C
Service temperature	Range 20C to 95C

Typical transmission levels *(for series 1800/1.1mm)*

Sheet Colour	Light Transmission
Clear	84%
Mist	78%
Opal	70%
Green	74%
Blue	60%
Grey	35%

Spanning Capacity

Series	1800/1.1mm	2400/1.4mm	3000/1.7mm
Corrugated	1000	1200	1300
6 Rib	1000	1200	1300
5 Rib	1200	1500	1700
Trimline	1200	1500	1700
SS900/Topspan	1600	1800	2000
LT7	1400	1700	1800
BB900	1400	1700	1900
DD400/BB400	1200	1400	1600

Available from

AMPELITE
makes light work!

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