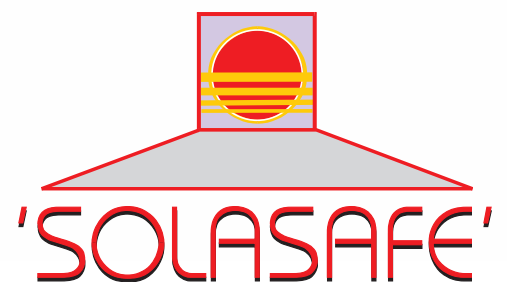




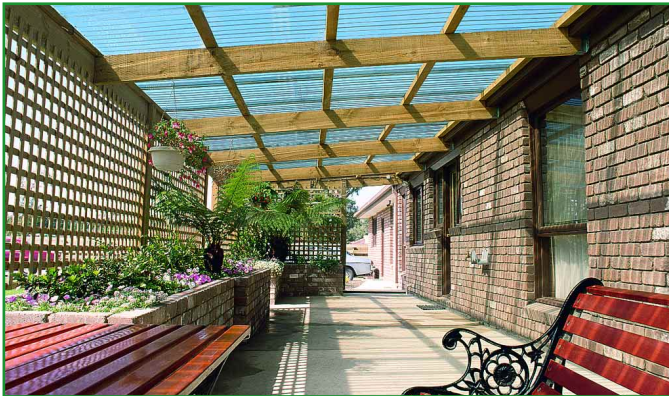
Solasafe is an Ampelite quality product

**SOLASAFE POLYCARBONATE.
YOUR UV SAFE WINDOW
TO THE SKY.**



A range of profiles

'SOLASAFE'



PEACE OF MIND LIFETIME WARRANTY

'Solasafe' polycarbonate sheeting is Warranted by Ampelite to give long service under normal usage. Protection against excessive yellowing of the sheet (as detailed in Warranty on back) is for lifetime from date of purchase. Damage from heavy hail up to 19 mm in diameter in high winds is covered for five years.



INBUILT UV PROTECTION



Today UV rays are stronger than ever due to the degree of ozone layer depletion. 'Solasafe' polycarbonate provides two way protection. Integral surface treatment will prevent UV degradation of the sheet surface and help prolong its life under the tough Australian sun. The sheeting also blocks 99.9% of harmful UV rays so you can enjoy the sun without the sunburn.



Excludes 99% of harmful UV Rays

Polycarbonate sheeting is a product of the space age; an advanced plastic polymer with optical and physical properties that can't be matched by other materials. It has high resistance to the weathering effects of UV rays and yellowing of sheets is minimised over their lifetime. Impact strength is up to 150 times that of tempered glass and normal hail won't cause damage.

MORE ABOUT 'SOLASAFE' POLYCARBONATE

- Excellent light transmission. Clear sheets transmit some 90% of glorious daylight. See the Light and Heat transmission tables in the next column for the percentages applicable to the various colour sheets. In cool climates, clear sheeting allows good heat transmission while cutting out 99.9% of harmful UV rays. If you live in a hot climate, we recommend using the opal, or tinted sheets, to help reduce heat.
- Fire safety. Polycarbonate sheeting is rated as a self extinguishing building material. Complies with AS 1530.3,1989 & Am'dment 1-1992 Early Fire Hazard Test.
- Strong light weight polycarbonate is easy to handle and fix. Drilling doesn't cause sheet fracture. See 'Fixing Detail' for hole sizes to suit the 'Ampelite' 10g screws and the use of correct weatherproof seals.
- All roofing materials expand and contract to some degree and screw holes must be oversize to allow for this; follow the 'Solasafe' fixing guide for best results. **Polycarbonate sheet is weakened by many chemicals including paint, so cover sheet to avoid spots. Never use sealants other than 'SEAL•ONCE' M34, or TREMfil® which are compatible with polycarbonate; read under 'Purlins & Rafters' for more detail.** The close fitting of sheets reduces the possibility of water drips from side or end laps, and sealing is seldom needed.
- 'Solasafe' is stable at temperatures of -40° to +110°. It does not distort or soften in heat but store under cover prior to installation.

A range of colours

SAFE'

Excludes 99% of harmful UV Rays

'Solasaft' is available in a range of colours over the various profiles. In warmer climates the tinted sheets provide a reduction in transmitted heat as well as reduced glare. Often tinted sheets are used to blend in with existing colour schemes or other roofing.

The table below shows the colours available and the amount of light and heat transmission applicable.

COLOURS, LIGHT & HEAT TRANSMISSION

CORRUGATED profile 760 mm cover

Colours:

	Clear	Opal	Grey	Lt. Bronze	Dark Tint
LIGHT	90%	60%	35%	40%	25%
HEAT	85%	55%	40%	45%	30%

Light transmission determined in accordance with AS/NZS 4257.4

GRECA profile 760 mm cover

Colours:

	Clear	Opal	Grey	Lt. Bronze
LIGHT	90%	60%	35%	45%
HEAT	85%	55%	40%	50%

Light transmission determined in accordance with AS/NZS 4257.4

5 RIB profile 760 mm cover

Colours:

	Clear	Opal	Grey	Lt. Bronze
LIGHT	90%	60%	35%	35%
HEAT	85%	55%	40%	40%

Light transmission determined in accordance with AS/NZS 4257.4

CORRECT INSTALLATION IS IMPORTANT

Carefully follow all Ampelite fixing instructions in this brochure. Because polycarbonate sheeting expands up to 16.2 mm over 6 metres, we do **not** recommend using longer sheets although they are available at some outlets.



SHEET COVERAGE

Sheets	1	2	3	4	5
Corrugated	760	1620	2380	3140	3900
Greca 760	760	1570	2330	3090	3850
5 Rib	760	1570	2330	3090	3850

SHEET LENGTHS

All profiles all colours	1.8 m	2.1 m	2.4 m	2.7 m	3.0 m
	3.6 m	4.2 m	4.8 m	5.4 m	6.0 m

Corrugated & Greca – in all colours up to 8.1 m
5 Rib – only in clear up to 8.1 m

PURLINS & RAFTERS

Maximum Spans	END	MID
Corrugated *(0.8 mm)	800	900
Greca 760 *(0.8 mm)	900	900
5 Rib *(0.8 mm) *Nominal thickness	900	1000

When rafter spacing coincides with sheet overlaps the roof appears join free. **Note:** We recommend the use of anti-noise self adhesive Foam Tape along Battens or Purlins to minimise friction noise generated by expansion & contraction of sheet.

If sealing is required at overlaps or fixings, use only * 'SEAL•ONCE' M34 or *TREMfil® co-polymer sealant; these special sealants are compatible with polycarbonate. Never use other types of silicone, or any other sealants, as they weaken the sheet and cause fractures. Use of incorrect sealant voids Warranty. *Available from Ampelite.

'SOLASAFE' FIXING DETAIL

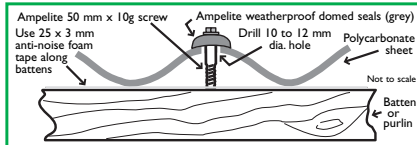
'Solasafe' is fixed and flashed on similar principles to steel roofing.

Note: Minimum recommended fall for corrugated and greca is 5°, this is approximately 88 mm per metre of sheet length. As an example: a 3.6 metre sheet requires a minimum fall of 300 mm.

With 5-Rib profile, 3° fall is sufficient – for 3.6 metres this is 180 mm. We strongly recommend using 5-Rib when the roof pitch is minimal. If insufficient fall is allowed, sheets may leak at the side laps and sag.

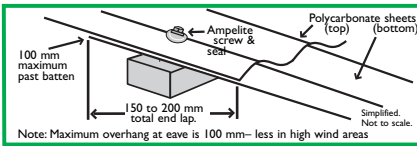
Before fixing sheets apply self adhesive foam anti-noise tape along the battens or purlins to minimise the noise generated by sheet movement. Start by fixing the first sheet at the end farthest from the usual wind direction. The side laps then face away from the wind. If end laps are necessary, start laying at a bottom corner. Polycarbonate has UV surface protection on one side only; it must be installed as directed on the label.

Side laps. Corrugated profile is side lapped 1.5 corrugations. Greca is lapped 1 rib, but depending on the degree of exposure and weather-proofing required, this can be increased to 2 ribs.



Screws, Weatherproof Seals, and Sealant. Roofing sheets are crest fixed, but walls can be valley fixed. It is important to use only Ampelite domed seals (grey coloured), that are chemically compatible with polycarbonate. **Never use silicone sealant other than 'SEAL•ONCE' M34 or TREMfil® copolymer sealants which are compatible with polycarbonate, at seals or laps. Incompatible sealants weaken sheeting and their use voids Warranty.**

Drilling screw holes. To allow for the expansion and contraction of sheets, holes must be drilled oversize. Using 10g screws the holes are 10 mm diam. For lengths 5 to 6 metres and over, holes must be 12 mm.



Spans, Overhang, and End Laps. Please refer to the Span tables on the inside pages and do not exceed the measurements shown. Overhang at the eave must not exceed 100 mm and be less in high wind areas. Total endlap at battens or purlins should not exceed 200 mm as shown above.

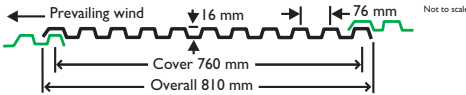
Cleaning. Use only a soft brush and soapy water. No abrasives. We recommend cleaning twice a year and when bird soil etc are apparent.

Condensation. Under single skin roofs, and especially in cold weather, some condensation is generally un-avoidable. Good ventilation will always help minimise condensation.

CORRUGATED 760 mm cover. Nominal thickness 0.8 mm



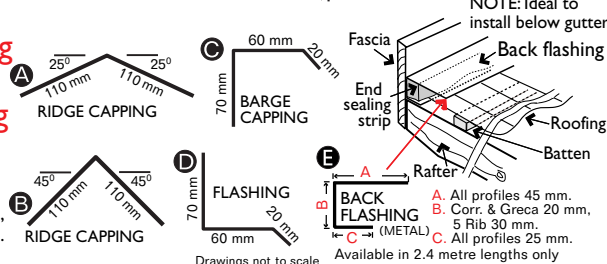
GRECA 760 mm cover. Nominal thickness 0.8 mm



5-RIB 760 mm cover. Nominal thickness 0.8 mm



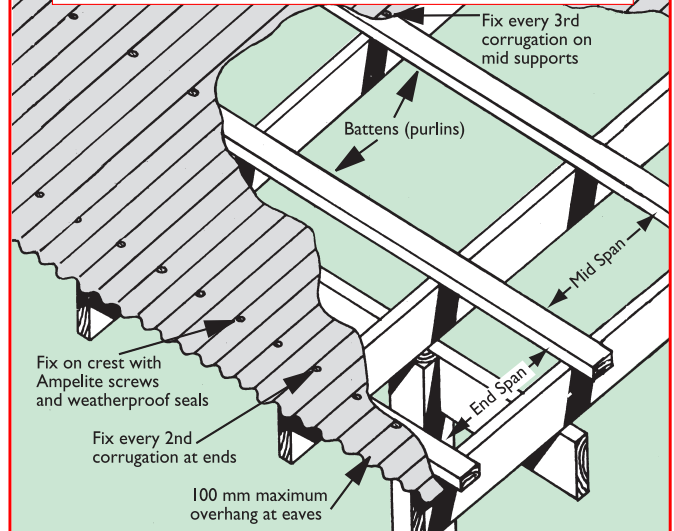
Capping and Flashing



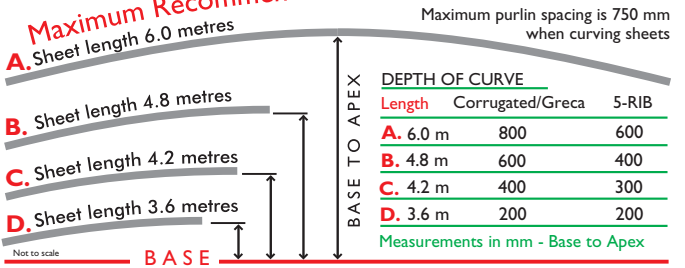
Anti-noise Tape We recommend the use of self adhesive foam tape on battens.

IMPORTANT

Install sheets with the UV surface protected side facing upwards. Refer to the label directions or markings on sheet.



Maximum Recommended Curves



'SOLASAFE' WARRANTY

The following benefits are in addition to consumer rights conveyed by Government regulations and the Trade Practices Act.

In the event of any claim under this Warranty, the liability of Ampelite Fibreglass Pty Ltd (hereinafter titled 'Ampelite') is limited to the replacement or pro-rata replacement of the faulty sheet(s). Such faulty material must be returned freight pre-paid by the purchaser, to the nearest Ampelite state office, together with proof of purchase documents. The product is intended for use in domestic building applications. Costs associated with the removal and refixing of sheets, or any loss, or consequential damage of any kind are not covered by this Warranty. Sheet failure due to incorrect installation, including the use of silicone and sealants other than SEAL•ONCE M34 and TREMfil®, or fair wear and tear/abrasion, are not covered by this Warranty.

Ampelite Warrant 'Solasafe' polycarbonate sheeting for LIFETIME against:

- Excessive discolouration of clear sheets** subject to these conditions:
 - The test method employed to assess discolouration will be that specified under Determination of Colourfastness AS/NZS4257.7.
 - Discolouration caused by atmospheric deposits or dirt, chemical reaction, abrasion and like events, are not covered by this warranty.
- Light transmission loss of clear and coloured sheets** subject to these conditions:
 - The loss of diffused light transmission from that of the sheet when new, shall not exceed more than 1% per year for lifetime from the date of purchase.
 - The test method employed to assess any loss of light transmission will be that specified in AS/NZS4257.4.
 - Loss of light transmission caused by atmospheric deposits or dirt, chemical reaction, abrasion and like events, are not covered by this warranty.
 - The product is intended for domestic use only and must be installed and cleaned in accordance with Ampelite's recommendations.

Ampelite Warrant 'Solasafe' polycarbonate sheeting for a period of 5 years against HAIL DAMAGE:

Fracturing of sheet by hailstones up to 19 mm in diameter accompanied by winds up to 75 km/hr. Damage caused by the impact of objects other than hail is excluded from this Warranty.



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