



extend your outdoor lifestyle



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for more info

laserlite.com.au

Up to **50% better heat reduction** than standard corrugated sheet[#]



only Laserlite[®] has the technology

Laserlite[®] is the only polycarbonate corrugated sheet product in Australia featuring Advanced Weatherguard[™] technology, a special protective material that is warranted to:

- Extend the life of the sheet by up to 50%[#]
- Maintain sheet colour and clarity up to 50% longer[#]
- Provide 99.9% protection from UV rays up to 50% longer[#]
- Resist 25% larger hailstones[#]

With unrivalled technology and superior performance, it's clear why Laserlite[®] is part of the Australian outdoor lifestyle.

Comfort Cool[™] keeps you cool and comfortable.

Laserlite[®] 3000 is the only polycarbonate roofing product to feature Comfort Cool[™] Technology, special properties in the sheet that reflect the warming effect of the sun's rays to offer:

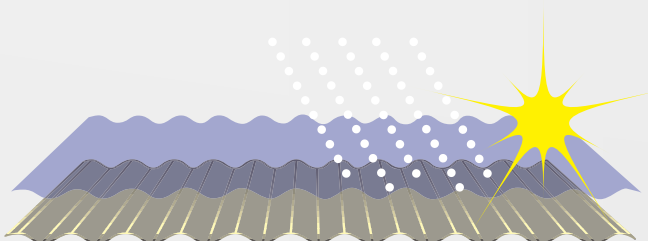
- Up to 50% better heat reduction than standard corrugated sheet[#]
- Reduced glare for ultimate comfort

[#] As compared to some other polycarbonate corrugated sheet products.



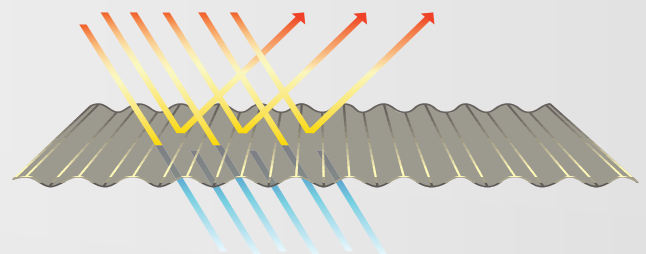
How it works

UV rays, wind, hail and rain have the potential to make polycarbonate resins brittle and lose colour over time. Advanced Weatherguard[™] protects the sheet and protects from harmful UV radiation.



How it works

Infrared light emitted by the sun passes through polycarbonate sheet making it warm underneath. Comfort Cool[™] Technology reflects the heat away whilst letting visible light through with less glare.



Performance & Reliability



Light level

MORE LIGHT

clear

opal

cream bronze tint

grey tint

Comfort level

WARMER

clear

bronze tint

grey tint

opal

cream

Ultimate Comfort



Light level

MORE LIGHT

frost

platinum

Comfort level

WARMER

frost

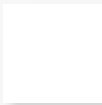
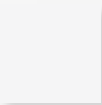
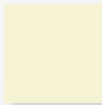


gun metal

platinum

Handling, Storage and Cleaning

Store sheets on a flat surface in a well protected and shaded area, out of direct sunlight. Stacked sheets stored in the sun will cause heat build-up. Avoid contact with chemicals, paints, solvents and sealants that are incompatible with Polycarbonate. Clean regularly with warm, soapy water and a soft cloth. Avoid petrol, ketones, acetone, phenols, chlorinated and aromatic hydrocarbons, petroleum-based paints, abrasive cleaners and solvents. Refer to website for more information.

The classic, high performing Laserlite® range.

| | |  |  |  |  |  |
|--------------------|----------------|---|---|--|---|---|
| | | clear | opal | cream | bronze | grey |
| Light Transmission | % | 93% | 49% | 43% | 38% | 19% |
| Heat Reduction | % [‡] | 0% | 52% | 62% | 33% | 47% |

Lengths Available

1.8m, 2.4m, 3.0m, 3.6m, 4.2m 4.8m, 5.4m, 6.0m, 7.2m, 9.0m

LESS LIGHT



corrugated

greca

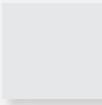
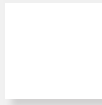

5 rib

| | | | |
|-------------|-------|-------|-------|
| Sheet Width | 840mm | 810mm | 830mm |
| Cover Width | 755mm | 765mm | 762mm |

COOLER

Technologically advanced heat reflective range.

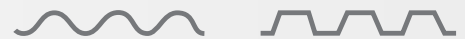
Up to 50% better heat reduction performance than standard corrugated sheet!#

| | |  |  |  |
|--------------------|----------------|--|---|---|
| | | platinum | frost | gun metal |
| Light Transmission | % | 16% | 47% | 16% |
| Heat Reduction | % [‡] | 69% | 63% | 66% |

Lengths Available

1.8m, 2.4m, 3.0m, 3.6m, 4.2m, 4.8m, 5.4m, 6.0m, 7.2m, 9.0m

LESS LIGHT



corrugated

greca

| | | |
|-------------|-------|-------|
| Sheet Width | 840mm | 810mm |
| Cover Width | 755mm | 765mm |

COOLER

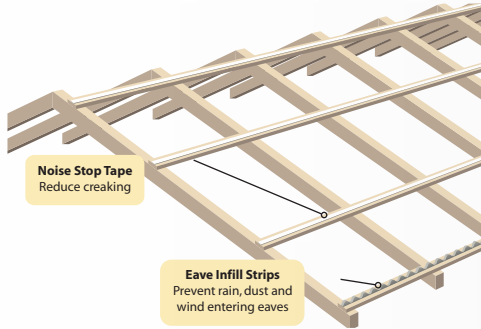
[‡]Based on the warming effect of the sun's rays through a sheet vs 3mm float glass (300-2500nm). #As compared to some other polycarbonate corrugated sheet products.

up, and possibly distortion, even if covered. Prevent Moisture getting between stored sheets as this may cause whitening or discolouration. Avoid soft sponge or soft brush. Rinse thoroughly. Do NOT remove sheets to clean once installed. Laserlite® is affected by methylated spirits, benzene, website for more details.

Installation Guide

Step 1

Purlins & Accessories



1. Ensure that your roof pitch is at least 5°, i.e.. 88mm rise per lineal metre. This will ensure adequate water run off.



2. Allow for ventilation, particularly at the highest point, to minimise heat build-up and provide air circulation. Good ventilation will also minimise condensation in cold weather.

3. For roofing, purlin/batten spacings should be no more than those shown in Table X - Maximum Purlin Spacings. For curved structures, the maximum purlin spacing should be 750mm and a minimum radius of 4000mm for Corrugated and Greca profile and 14000mm for 5 Rib profile. For walls, noggings spacings should be no more than 1200mm. Use Laserlite® Noise Stop Tape on all battens, purlins or noggings to minimise the noises associated with expansion and contraction.

4. Lay Laserlite® Noise Stop Tape to avoid creaking.

5. Lay Laserlite® Eave Infill Strips at eaves to avoid rain, dust & wind entering the eaves.

6. For installations under a gutter, fit metal back channel with Back Channel Infill Strips prior to laying sheet.

Table X - Maximum Purlin Spacings

| Profile | End Span | Mid Span |
|------------|----------|----------|
| Corrugated | 800mm | 1000mm |
| Greca | 900mm | 1200mm |
| 5 Rib | 900mm | 1200mm |

Step 2

Sheet & fixings



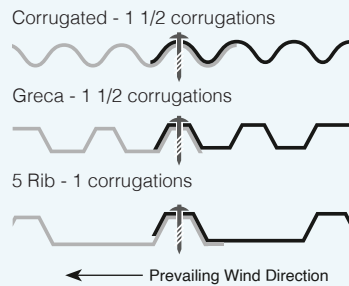
1. Ensure that the UV surface protected side faces the sun. This is the side of the label and the inkjet marking. When installed as a wall or fence it is recommended that the UV protected side is facing the most sun. The life of the sheet may be shortened and discolouration may occur due to the unprotected side being exposed to UV radiation.

2. The sheet can be easily cut with a pair of shears, a fine-toothed handsaw or a circular saw with a cut-off blade suitable for plastic.

3. For roof laying, start with the lower sheets first, keeping side laps away from prevailing wind. Allow an overhang of 50mm. Temperature changes will cause expansion and contraction, so make allowances for thermal movement. Resistance to movement can cause buckling.

4. Side laps will differ by profile. Install as shown below:

Table Y - Side laps



5. To ensure maximum performance of the sheet, and to avoid buckling, it is necessary to oversize the holes and centre the fixings. It is recommended that Vortex® Polycut™ fixings are used. They come complete with their own hole saw that cuts an expansion hole as you drill. The screw is centred every time and the cutter holds the plug of material removed. If using Laserlite® Multipurpose Fixings, pre-drill your fixing holes. Use a 10mm drill for sheets up to 4.2m long and a 12mm drill for sheets longer than 4.2m. Fix the sheet through the centre of the pre-drilled holes, perpendicular to the purlins/battens. A (5/16") Drill hex driver bit should be used. Only tighten the fixings enough to prevent rattling. Over tightening may cause distortion and undue stress with possible failure resulting. Use only Laserlite® recommended fixings as these are designed to be compatible with Laserlite® Polycarbonate Roofing. **Any failure of the sheet due to fixings other than Laserlite® recommended fixings, will void the Laserlite® warranty.**

In normal conditions, use the fixing spacings shown in Table Z - Fixing Spacing. As a guide, you will need approximately 7 fixings per lineal metre. This depends on your purlin spacings and wind conditions. In high wind areas fix Corrugated and Greca on every second corrugation on each purlin/batten. It is suggested that barge capping be used. Fix the sheet through the valleys for walls with Laserlite® Standard Fixings.

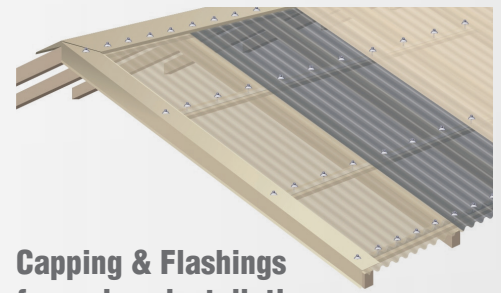
Table Z - Fixing Spacing

| Profile | End Purlin | Mid Purlins |
|------------|-----------------|-----------------|
| Corrugated | every 2nd crest | every 3rd crest |
| Greca | every 2nd crest | every 3rd crest |
| 5 Rib | every crest | every crest |

Using Vortex® Polycut™ fixings eliminates requirement for pre-drilling.

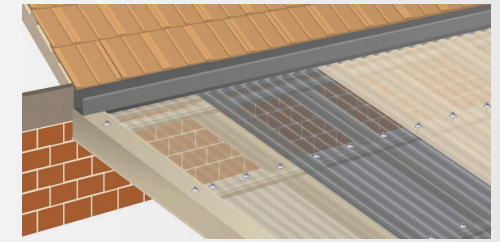
6. End overlaps should be 150mm for steep pitch or 200mm for shallow pitch.

Step 3



Capping & Flashings for various installations

APEX ROOF - Fit metal barge capping* to the edge of sheet and metal ridge capping to the apex.



UNDER A GUTTER - Fit back channel flashing with foam infill strips under gutter prior to laying sheets and metal barge capping to edge of sheet.

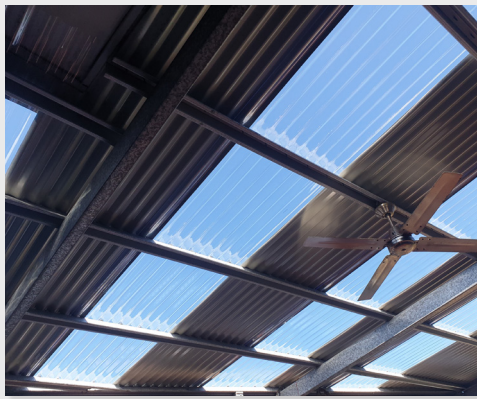


AGAINST A WALL/FASCIA - Fit metal barge capping to edge of sheet and metal apron flashing at the wall or fascia.

Safety Recommendations

- Always exercise extreme care when walking on a roof.
- Never walk on or apply your load directly to sheeting.
- In particular consider all safety requirements when working at heights above 2m.
- For safety reasons we recommend the use of safety mesh for installations above 3m.
- Use appropriate personal protective equipment (PPE) such as safety footwear, glasses and gloves.
- All safety practices must comply with the applicable local building and/or work cover code(s).
- We do not recommend the collection of drinking water from any roof without appropriate precautions and filtration. Check with your local water authority for further advice.

CAUTION: To maximise the life cycle of your Laserlite® roofing, Laserlite® recommends avoiding exposure of polycarbonate sheeting to excess heat from patio heaters. Maintain a distance of 1 metre minimum between the sheets and the heater with adequate ventilation at all times and temperature to below 90°C beneath the sheeting. If the temperature rises above 90°C, remove the heater immediately.



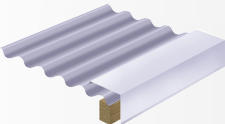
1 Noise stop tape
Reduces creaking



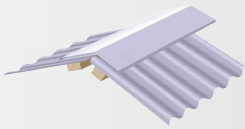
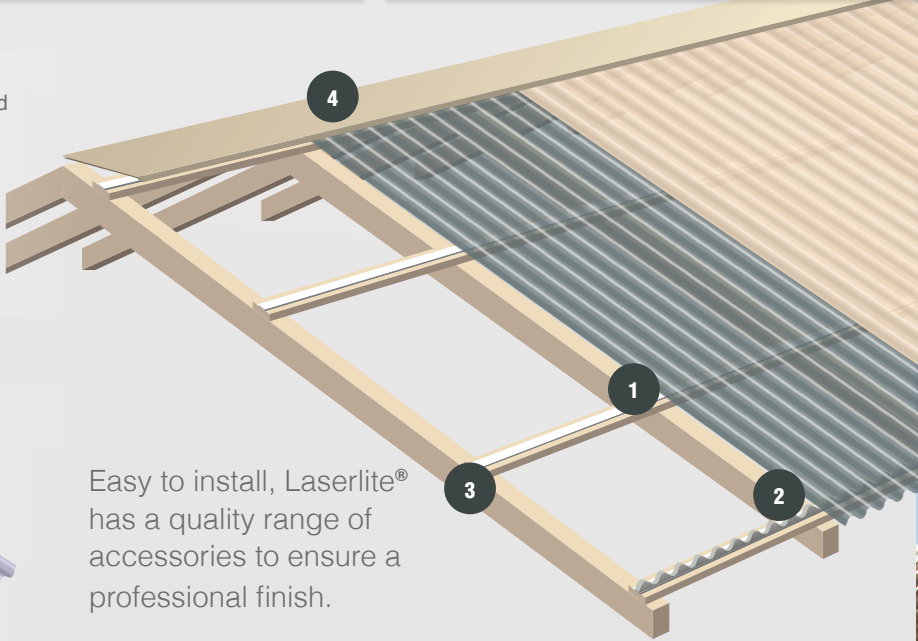
2 Eave infill strips
Prevents rain, dust and wind entering the eaves



3 Barge capping†
Prevents wind & rain entering the gable ends



4 Ridge capping†
Prevents roof leaking at apex

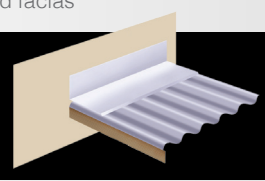
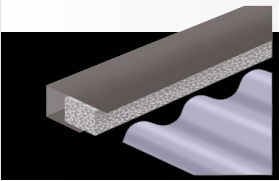



Easy to install, Laserlite® has a quality range of accessories to ensure a professional finish.

When installed against a wall

Back channel & infill Prevents leaking at walls and fascias

Apron flashing† Prevents leaking at walls and fascias



Vortex® Polycut™ Time Saving Fixing System saves 50% installation time as no pre-drilling is required.



2x PROTECTION
More than double the Corrosion protection of conventional Class 4 in category 5 environments.

8x TOUGHER
Than conventional Class 4 Extremely abrasion resistant. Minimal coating loss during installation.

30% FASTER DRILLING
Than conventional Class 4

REVOLUTIONARY PROTECTION & PERFORMANCE for corrosive environments

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*For Warranty details, refer to our website laserlite.com.au. Colours depicted in this brochure are representations offered only as a guide and should not form the basis of a colour selection. Slight colour variation may occur between production runs. Transmitted light and colour may vary in intensity depending on weather conditions. The information contained in this brochure is to the best of our knowledge accurate, but all recommendations are made without any warranty whatsoever, since the conditions of use are beyond our control. This brochure cancels and supersedes all previous publicised information. The company reserves the right to alter and revise, without notice the information contained herein. †Apron flashing, Barge and Ridge capping not stocked.