MULFORD
BUILDING PRODUCTS
delivering solutions

LASERLITE®

extend your outdoor lifestyle

www.laserlite.com.au

Performance & reliability

1. SELECT PRODUCT

The Classic,high performing Laserlite® range.

LASERLITE® 2000

PRODUCT TECHNOLOGIES

- Lifetime Platinum Warranty*
- Certified to Australian standards

advanced weatherguard™ TECHNOLOGY

Lifetime Platinum WARRANTY*

2. SELECT COLOUR

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

3. SELECT PROFILE

corrugated greca 5 - rib

4. SELECT LENGTH

Laserlite® 2000

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

Sheet width Corrugated 840mm Greca 810mm 5 - rib 830mm

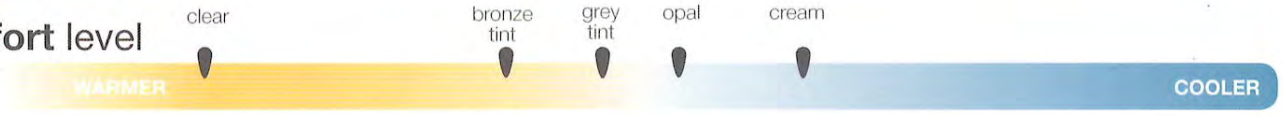
Cover width Corrugated 755mm Greca 760mm 5 - rib 762mm

‡ Based on the warming effect of the sun's rays through a sheet vs 3mm float glass (300-2500nm).

Light level

2000

Comfort level



Ultimate comfort

LASERLITE® 3000

1. SELECT PRODUCT

Technologically advanced heat reflective range for the ultimate outdoor lifestyle experience.

PRODUCT TECHNOLOGIES

- Lifetime Platinum Warranty*
- Certified to Australian standards

advanced weatherguard™ TECHNOLOGY

comfort cool™ TECHNOLOGY

Lifetime Platinum WARRANTY*

2. SELECT COLOUR

	platinum	ice	gun metal
Light Transmission %	18%	47%	16%
Heat Reduction %‡	69%	63%	66%

3. SELECT PROFILE

corrugated greca

4. SELECT LENGTH

Laserlite® 3000

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

	Corrugated	Greca
Sheet width	840mm	810mm
Cover width	755mm	760mm

‡ 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.

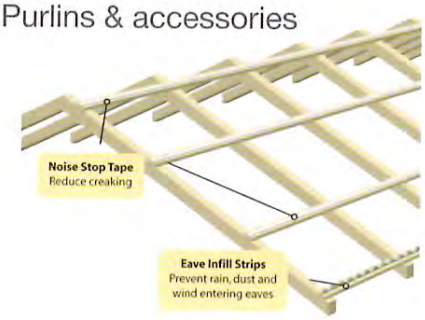
Light level

3000

Comfort level

Installation Guide

Step 1
Purlins & accessories



1. Ensure that your roof pitch is at least 5°, ie. 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 pulin spacing should be 750mm and a minimum radius of 4000mm for Corrugated and Greca profile and 14000mm for 5 Rib profile. For walls, nogging spacings shoud be no more that 1200mm. Use Laserlite® Noise Stop on all battens, purlins or noggings to minimise the noises associated with expansion and contraction.

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

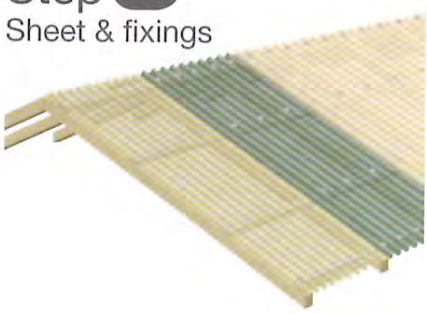
5. Lay **Laserlite® Eave Infill strips** at eaves to avoid rain,dust & wind entering the eaves.

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



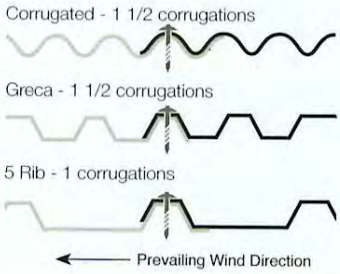
1. Ensure that the UV surface protected side faces the sun. This is the side of the label and the inkjet marking. When installed as a wall or fence it is recommended that the UV protected side is facing the most sun. The life of the sheet may be shortened and discolouration may occur due to the unprotected 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 Laserlite® One Shot® 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® Standard Fixings, pre-drill your fixing holes. Use a 10mm drill for sheets up to 4.2mm long and a 12mm drill for sheets longer than 4.2mm. Fix the sheet through the cerntre 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® branded fixings** as these are designed to be compatible with Laserlite® Polycarbonate Roofing. Any failure of the sheet due to fixings other than Laserlite branded will void the Laserlite® warranty.
In normal conditions, use the fixing spacings shown in Table Z - Fixing spacings.
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.

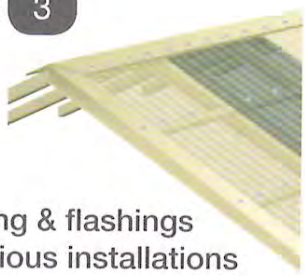
Table Z - Fixing Spacing

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 **One Shot® fixings** eliminates requirement for pre-drilling.

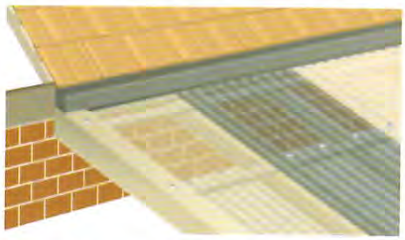
6. End overlaps should be 150mm for steep pitch or 200mm for shallow pitch.

Step 3

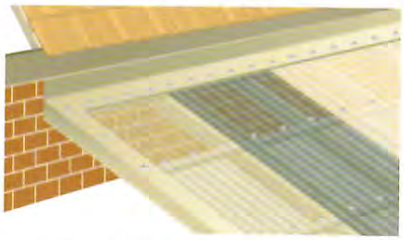


Capping & flashings for various installations

APEX ROOF - Fit barge capping to edge of sheet and ridge capping to the apex. Secure using One Shot® screws



UNDER A GUTTER - Fit Back channel flashing with foam infill strips under gutter prior to laying sheets and Barge Capping to edge of sheet.



AGAINST A WALL/FASCIA - Fit barge capping to edge of sheet and apron flashing at the wall or fascia. Secure using One Shot® screws.

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 & 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.*

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.

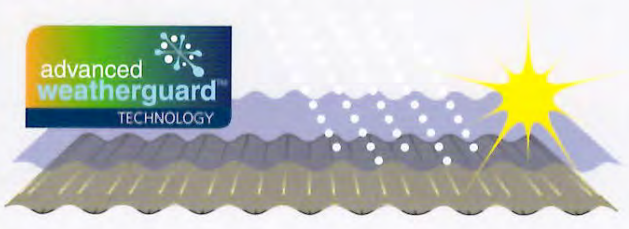
Comfort Cool™ keeps you cool and comfortable. Laserlite 3000 is the only polycarbonate roofing product to feature Comfort Cool™ Technology, special properties in the sheet that reflect the warming effect of the sun's rays to offer

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

As compared to some other polycarbonate corrugated sheet products.

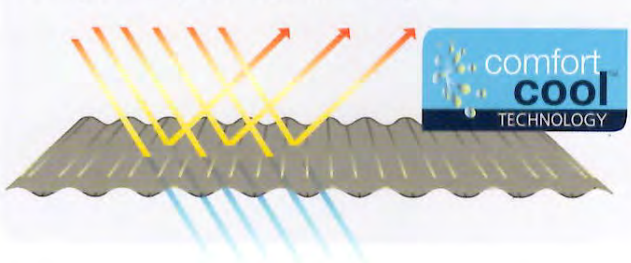
How it works

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

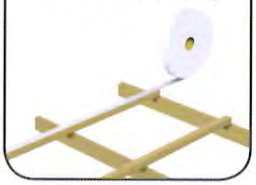
Infra red light emitted by the sun passes through polycarbonate sheet making it warm underneath. Comfort Cool™ Technology reflects the heat away whilst letting visible light through with less glare.



LASERLITE®

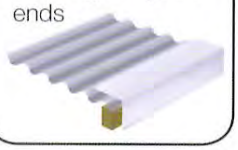
the complete solution
for a professional finish

1 Noise stop tape
Reduces creaking

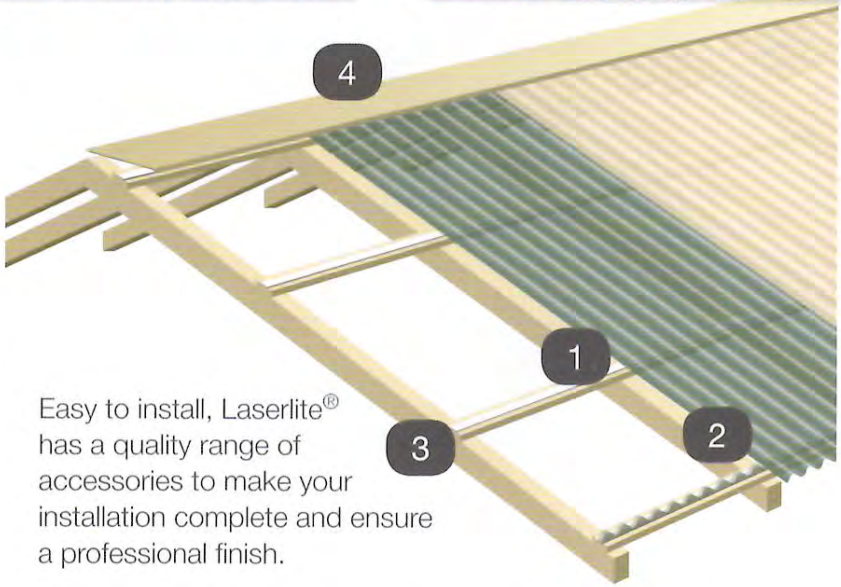


2 Eave infill strips
Prevents rain, dust and wind entering the eaves

3 Barge capping
Prevents wind & rain entering the gable ends



4 Ridge capping
Prevents roof leaking at apex

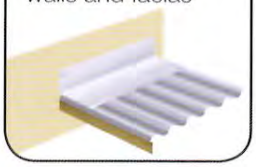


Easy to install, Laserlite® has a quality range of accessories to make your installation complete and ensure a professional finish.

When installed against a wall

Back channel & infill
Prevents leaking at walls and facias

Apron flashing
Prevents leaking at walls and facias



Laserlite® One Shot® Time Saving Fixing System saves 50% installation time as no pre-drilling is required. They also feature a Class 4 coating for superior corrosion resistance and suitability for coastal areas.

Save 50% installation time

ONE SHOT
Laserlite Fixing System

www.ausiports.com.au

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'Leisure Living Legends'

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