

Safety Recommendations

- Always exercise extreme care when walking on any roof.
- **Never walk on or apply a load or your weight directly to sheeting.**
- In particular consider all safety requirements when working at heights above 2m.
- **For Safety precautions we recommend the use of safety mesh for installations above 3m.**
- Use appropriate personal protective equipment (PPE) such as safety footwear, safety glasses and gloves.
- All safety practices must comply with the applicable local building and/or work cover code(s).

Installation Instructions

Carefully read all installation instructions before you start.

- For installation in cyclonic regions, contact your nearest Laserlite office for special instructions.

- 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 6000mm for Roma and Greca profile and 14000mm for Trimdek profile. For walls, nogging 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 Ensure 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.

- 5 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.

- 6 In normal conditions, use the fixing spacings shown in Table Y – 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 Roma and Greca on every second corrugation on each purlin/batten. It is suggested that barge capping be used. Fix the sheet through the crests for roofing with Laserlite One-Shot Fixings and through the valleys for walls with Laserlite Fixings for Cladding or Laserlite Standard Fixings.

- 7 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.

- 8 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 Fixings for Cladding or Laserlite Standard 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 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.

- 9 Side laps will differ by profile. Install as shown in Table Z.

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

- Refer to Safety Recommendations.
- Installations must comply with the applicable building code.
- 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 of your Laserlite roofing, Laserlite recommends to avoid exposing your polycarbonate sheeting to excess heat from patio heaters. Laserlite recommends a distance of 1m is kept between the sheets and the heater, adequate ventilation at all times and temperature to be below 90°C beneath the sheeting. If temperature underneath your sheet rises above 90°C, immediately remove the patio heater from underneath the polycarbonate sheeting.

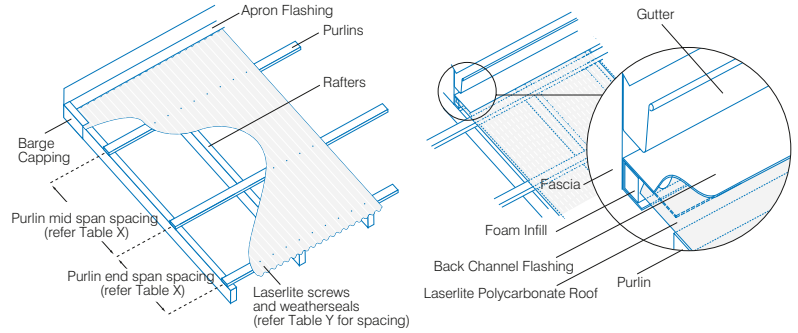
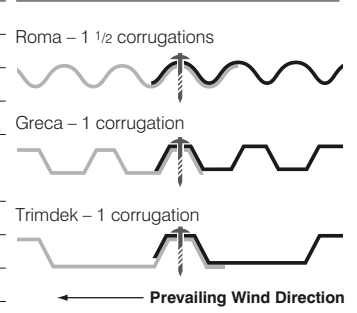
Table X – Maximum Purlin Spacings

Profile	End Span	Mid Span
Roma	800mm	1000mm
Greca	900mm	1200mm
Trimdek	900mm	1200mm

Table Y – Fixing Spacings

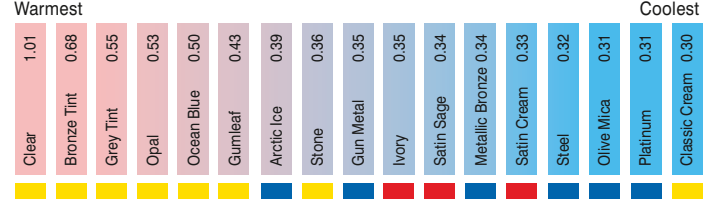
Profile	End Purlins	Mid Purlins
Roma	Every 2nd crest	Every 3rd crest
Greca	Every 2nd crest	Every 3rd crest
Trimdek	Every crest	Every crest

Table Z – Side Laps



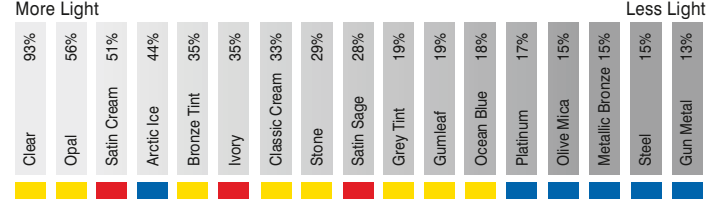
Product Performance

Shading Co-efficient Ratio (SC)



Shading Co-efficient (SC): A ratio of the warming effect of the sun's rays through a sheet divided by the sun's warming effect through 3mm float glass (300-2500nm). **The lower the figure the cooler it is under the sheet.**

Light Transmission (LT)



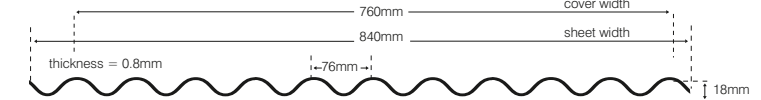
Light Transmission (LT): % of visible light transmission (400-700nm) that passes through the sheet.

The lower the figure the less light passes through the sheet.

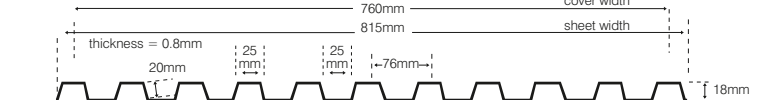
Product Range

Profiles

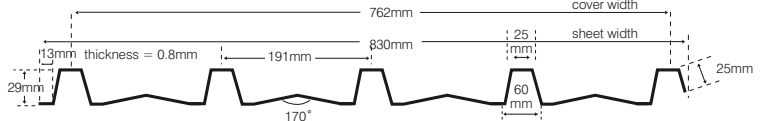
Roma



Greca



Trimdek



Weight

	Roma	Greca	Trimdek
Kg per Lineal Metre	0.92	0.93	0.92
Kg per m2	1.10	1.13	1.11

Available Sizes

Standard lengths in metres: 1.8, 2.4, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0, 7.2
Lengths up to 10 metres can be ordered (conditions apply)