Installation Instructions

Carefully read all installation instructions before you start.

- *For installation in cyclonic regions, contact your nearest Laserlite office for special instructions.*
- *Always exercise extreme care when working on a roof. Use walking boards along purlins. Never walk directly on the sheeting.*
- *Always wear eye protection when using cutting tools.*
- *Laserlite does not recommend the collection of drinking water from any roof without appropriate precautions and filtration. Check with your local water authority for further advice.*
- *For safety precautions Laserlite recommends the use of safety mesh for installations above 3m.*

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 and through the valleys for walls.

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.

Temperature changes will cause the sheet to expand and contract.

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 The cutter holds the plug of material removed and grips the purlin when the fixing is tight enough.

If using 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.

Important. Sealants - *These instructions are designed to prevent leaking and alleviate the requirement for sealants. Sealants, especially silicone, are incompatible with polycarbonate. They will damage the sheet, restrict expansion and contraction, and void the warranty. Use the appropriate Laserlite flashings and infill strips to complete your project and help protect your outdoor entertaining areas from the weather, without the need for sealants.*

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