

## Laserlite® - One Shot® Fixing - Installation

- Ensure that your roof pitch is at least 5° i.e. 88mm rise per lineal metre. This will ensure adequate water run off.
- 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.
- For roofing, purlin spacings at end spans should be no more than 800mm for Roma or 900mm for Greca. Mid spans should be no more than 1000mm for Roma or 1200mm for Greca. For curved structures, the maximum purlin spacing should be 750mm and the minimum radius 3000mm. For wall, noggin 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.
- Ensure the label side faces to the sun. If the label has been removed, the correct orientation of the ink jet marking on the side of the sheet will indicate the sun side. When installed as a wall or fence, the life of the sheet may be shortened and discolouration may occur due to the unprotected side in the direction of most sun..
- 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.
- In normal conditions, fix Roma and Greca sheets on every second crest at end purlins and every third crest on mid purlins. As a guide, you will need approximately 7 Laserlite® One Shot® fixings per line metre. Of course this depends on your purlin spacings and wind conditions. In high wind areas fix Roma and Greca on every second corrugation on each purlin. It's also a good idea to use barge capping. Fix the sheet through the crests for roofing and through the valleys for walls.
- For roof laying, start with the lower sheets first, seeping side laps away from prevailing wind. Allow for overhang of not more than 100mm (50mm in high wind areas). Temperature changes will cause expansion and contraction, so make allowances for thermal movement. Resistance to movement can cause buckling.
- Use a power drill with 5/16" hex socket. Insert the head of the Laserlite® One Shot® fixing into the socket.
- Firmly place the sharp point of the Laserlite® One Shot® fixing onto the crest of the corrugation to be fixed to eliminate "skidding" or "wandering".
- Apply firm downward pressure, perpendicular to the sheet and begin drilling using 100rpm and maximum torque. Reduce the pressure once the sheet has been pierced.
- The cutter should now cut the expansion hole. Ensure the Laserlite® One Shot® fixing is installed at 90° to the corrugation crest so that the cutter cuts a circular expansion hole and the weatherseal adequately covers the hole.



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- Resistance will occur when the cutter meets the timber purlin, indicating that drilling must stop. Ensure the fixing has only been tightened enough to prevent the sheet from rattling. Over tightening may cause distortion or undue stress with possible failure resulting.
- Ensure side laps are 15 corrugations for Roma and 1 corrugation for Greca.
- End overlaps should be 150mm for steep pitch or 200mm for shallow pitch.
- Repeat until installation is complete.
- For installation of roofs over 3cm in height or for cyclonic regions, contact us 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 safety glasses or goggles when operating cutting tools or drills.
- Carefully read all installation instructions before you start.

**IMPORTANT:** 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 your 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.

Use only Laserlite® brand fixings and weatherseals when installing Laserlite® Polycarbonate Roofing as they are designed to be compatible. Any failure of the sheet due to fixings other than Laserlite® brands will not be covered by your warranty. Laserlite® One Shot® fixings are compatible with Laserlite® Polycarbonate Roofing. Do not use Laserlite® One Shot® fixings with fibreglass roofing as they will damage the sheet.

One Shot® is a registered trademark of Ajax Fasteners – A Division of Ajax Cooke Pty Ltd. The Laserlite® logo is a registered trademark of Bayer, Germany.



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