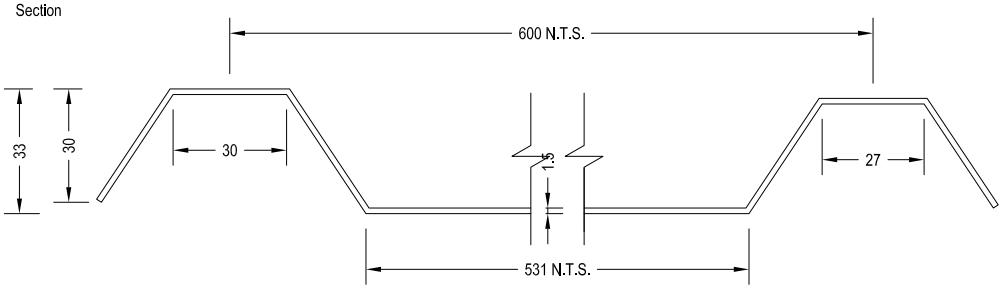
INSTALLATION GUIDE

Version: 1.0 May 2026 | Issued by Alsynite One NZ Ltd
Related Documents: LASERGLAZE™ BPIR Declaration

LASERGLAZE™ COMPONENTS & ACCESSORIES

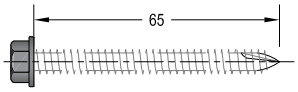
LASERGLAZE™ PROFILE

Section



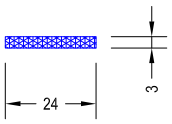
14G x 65MM SCREW

Section



NOISE STOP TAPE

Section



NOISE STOP TAPE

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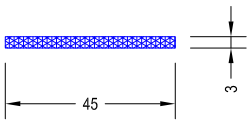
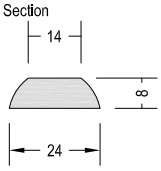


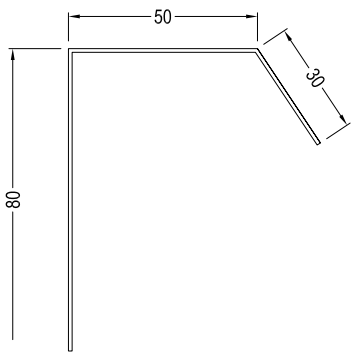
EPDM WASHER

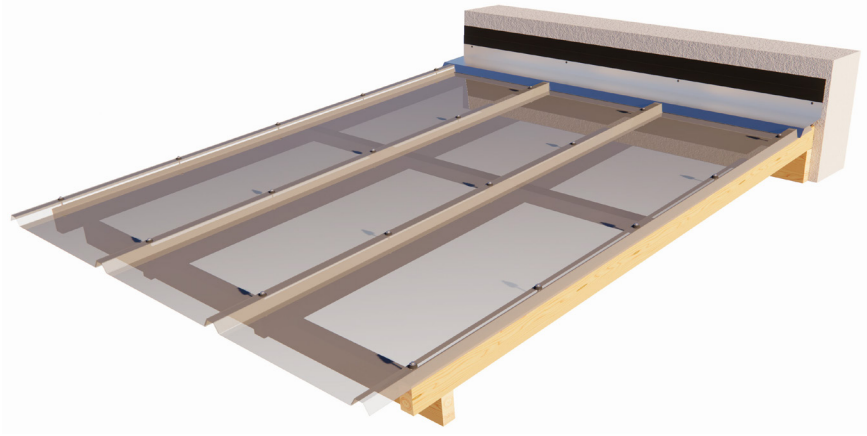
Section



BARGE CAPPING PROFILE

Section



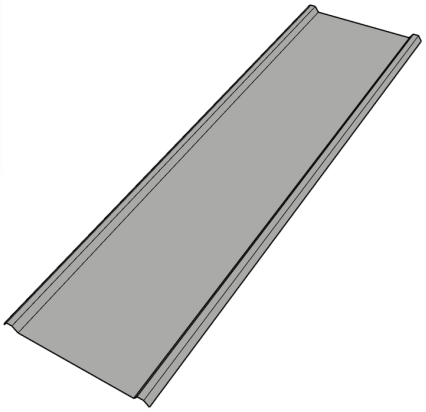


INSTALLATION GUIDE

Version: 1.0 May 2026 | Issued by Alsynite One NZ Ltd
Related Documents: LASERGLAZE™ BPIR Declaration

PRODUCT DESCRIPTION

LASERGLAZE™ is a profiled polycarbonate roofing system manufactured from UV-stabilised polycarbonate. It is an updated version of the former Custom Glaze product, upgraded to a 2.5mm sheet thickness and 600mm effective cover width, and is installed directly to supporting rafters without glazing bars.



PRODUCT SPECIFICATION

- Sheet Thickness: 2.5mm Polycarbonate
- Total Sheet Width: Approx 670mm
- Effective Cover Width: 600mm
- Minimum Roof Pitch: 5°

HANDLING AND STORAGE

- Store sheets flat and protected from direct sunlight
- Keep protective film on sheets until installation
- Do not drag sheets across rough surfaces
- Avoid stacking sheets in direct sun
- Do not walk directly on sheets

IMPORTANT NOTICE

LASERGLAZE™ is intended for use on open-sided structures such as pergolas, patios, verandas and carports, where full weathertightness is not required. This guide provides indicative installation information only. Compliance with the New Zealand Building Code (NZBC), including structural adequacy, wind zone performance, and exterior moisture management, remains the responsibility of the designer, installer and building owner.

INSTALLATION GUIDE

Version: 1.0 May 2026 | Issued by Alsynite One NZ Ltd
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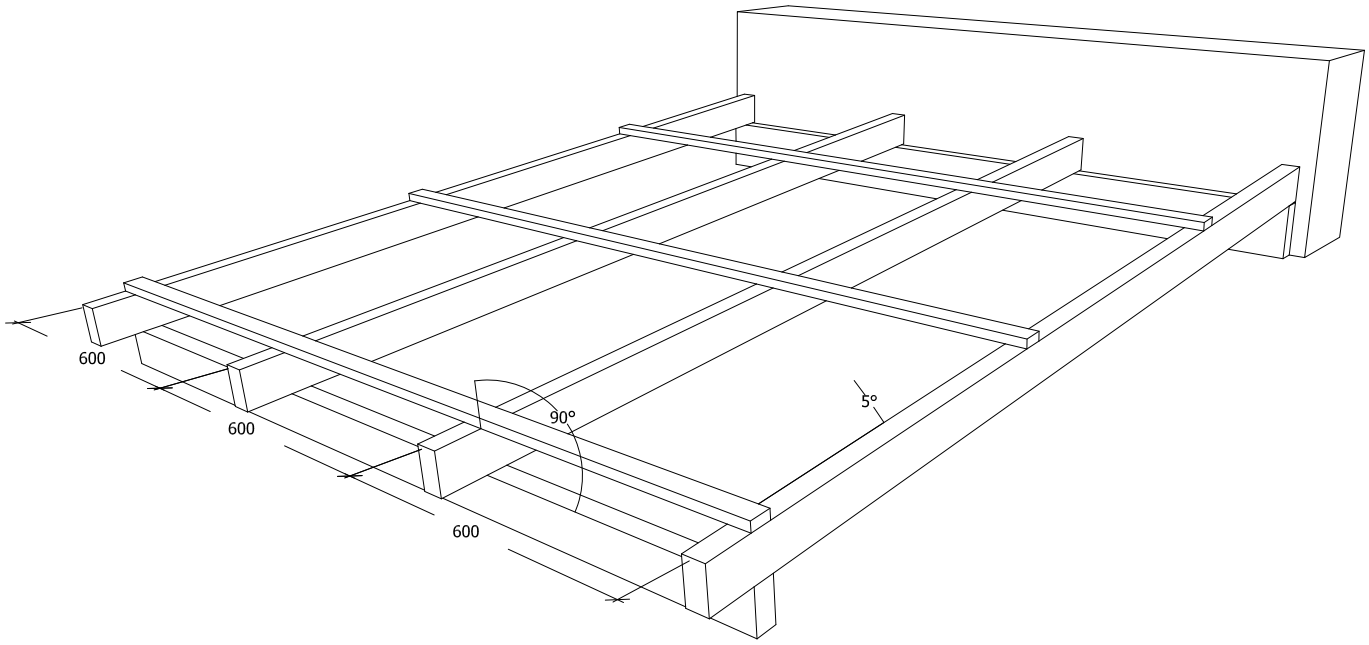
CHECK YOUR STRUCTURE

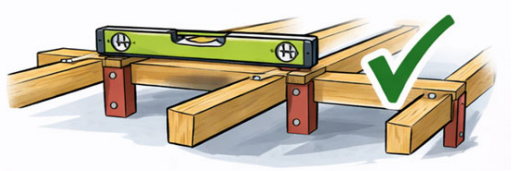
» Minimum roof pitch 5°
» Rafters straight, level and parallel
» Maximum rafter spacing 600mm centres
» Supporting structure must comply with NZS 3604 or other applicable building standards



LASERGLAZE™ may be installed onto rafters or purlins. Where purlins are used, the installer must ensure the supporting structure and spacing are suitable for the roof span and site conditions.

PREPARE YOUR STRUCTURE

» Ensure rafters or purlins are clean and dry
» Confirm sheet layout before fixing
» Ensure framing members are straight and parallel



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INSTALLATION GUIDE

Version: 1.0 May 2026 | Issued by Alsynite One NZ Ltd
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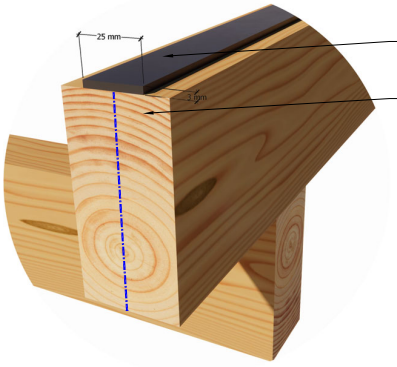
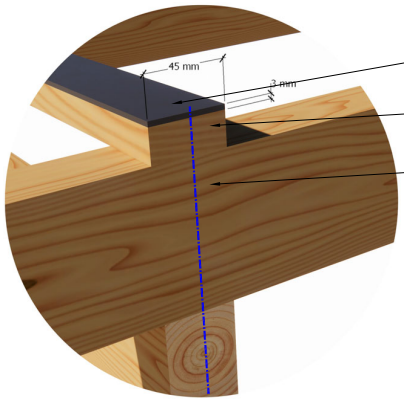
APPLY NOISE STOP TAPE

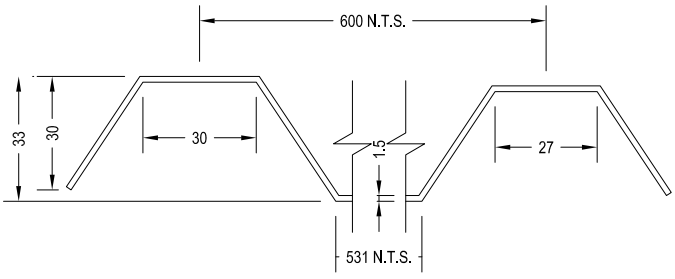
» Install Noise Stop Tape to all rafters or purlins before laying sheets
» Noise Stop Tape available in 2 sizes:
  » 24mm x 3mm x 25m Roll
  » 45mm x 3mm x 25m Roll
» The wider 45mm tape can be applied directly to typical rafters or purlins without needing to centre it. Noise Stop Tape helps minimise noise caused by thermal expansion and contraction.

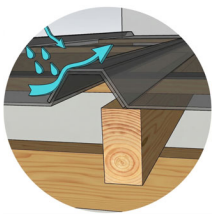


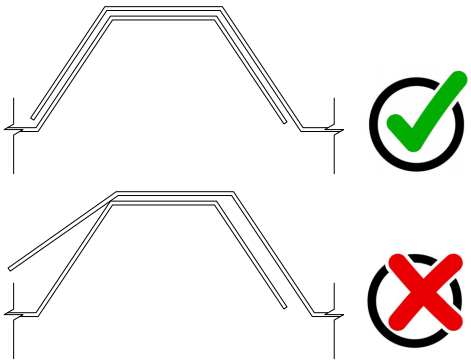


SHEET ORIENTATION

LASERGLAZE™ sheets incorporate an overlapping rib and underlapping rib. Install sheets so the overlapping rib faces away from the prevailing wind and rain direction.





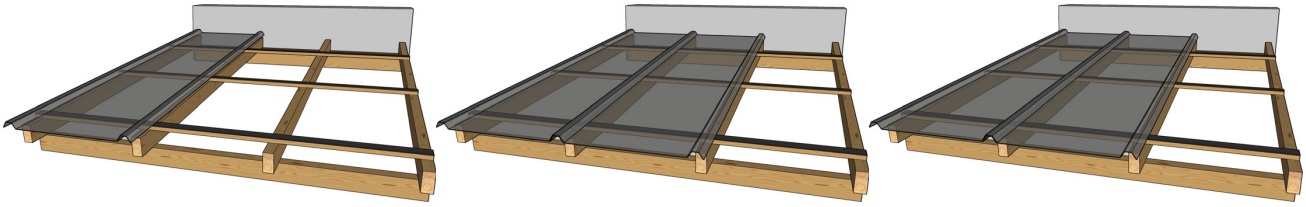


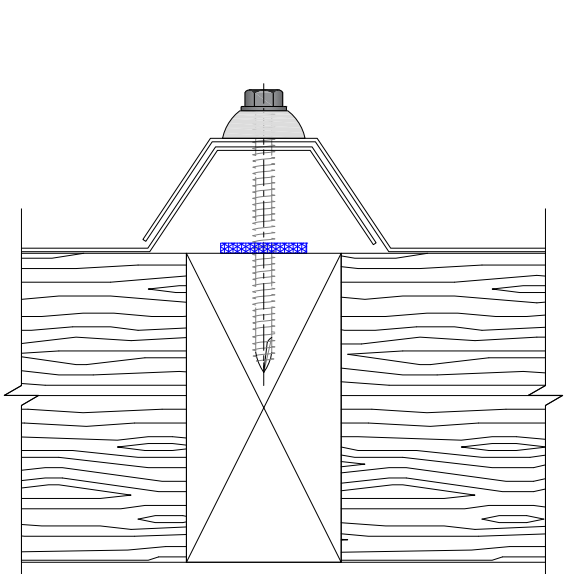
INSTALLATION GUIDE

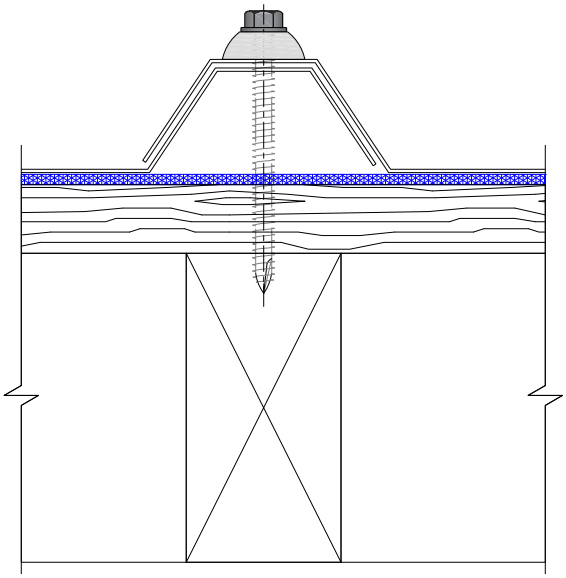
Version: 1.0 May 2026 | Issued by Alsynite One NZ Ltd
Related Documents: LASERGLAZE™ BPIR Declaration

POSITION THE FIRST SHEET

Start installation from the side of the roof that best suits the prevailing wind direction. Ensure the first sheet is square to the framing and ribs align with rafters or purlins.

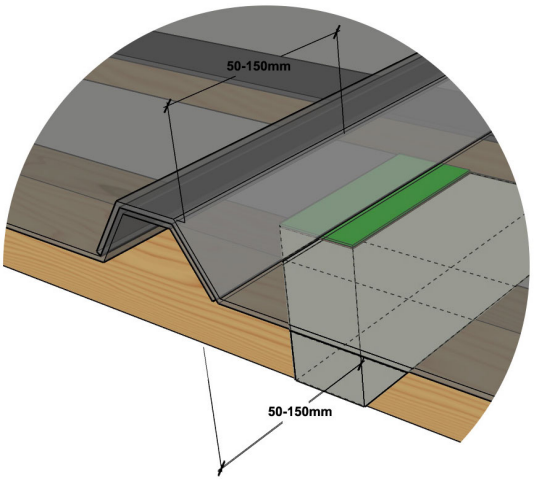


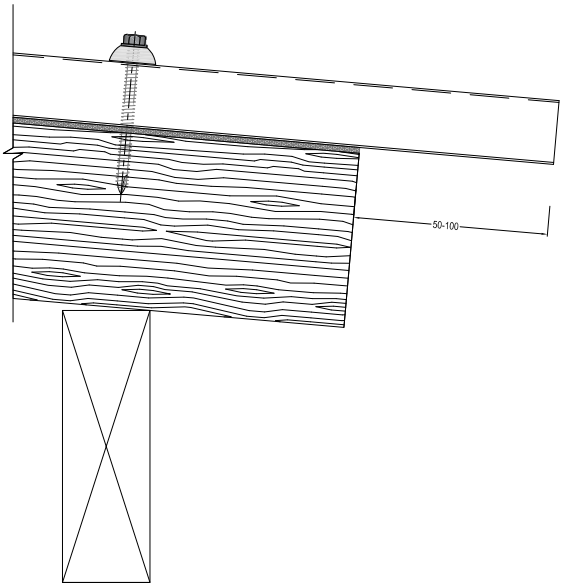




EAVES OVERHANG

Recommended eaves overhang: 50mm to 150mm maximum. Excessive overhang may result in sheet deflection.





INSTALLATION GUIDE

Version: 1.0 May 2026 | Issued by Alsynite One NZ Ltd
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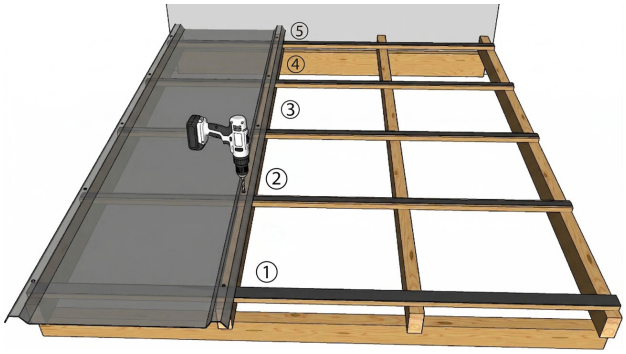
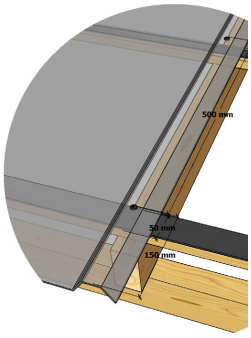
FIXING THE SHEETS

Standard fixings:
» 14g x 65mm Polycarbonate Roofing Screws with EPDM washer
» Screws must penetrate timber framing minimum 30–35mm
» Typical fixing spacing approximately 400 mm. Reduce spacing in high wind areas if required
» Fix to every rafter or purlin support
» Fix through crest of rib

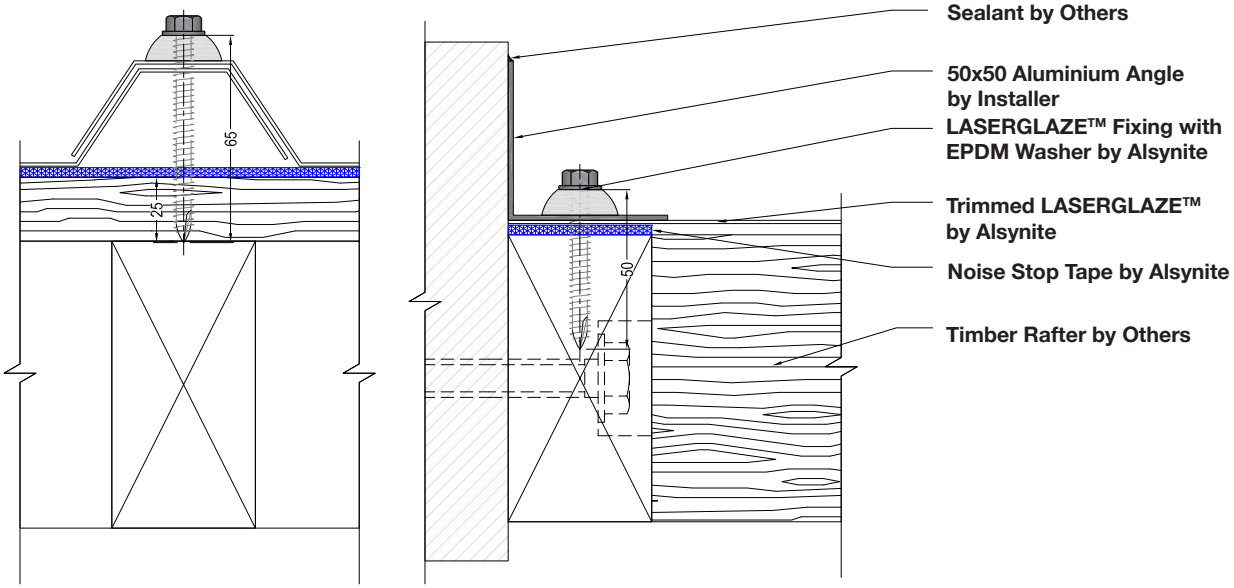




NOTE: 50mm screws must not be used for crest fixing as this may result in insufficient penetration into the timber framing.

FIXING AT TRIMMED SHEET EDGES

Where the sheet rib has been trimmed or removed:
» Use 14g x 50mm screws with EPDM washer
» Do not overtighten screws
» Tighten screws only until the EPDM washer lightly contacts the sheet surface
» Pre-drill holes approximately 2–3 mm larger than the screw diameter to allow for thermal expansion



INSTALLATION GUIDE

Version: 1.0 May 2026 | Issued by Alsynite One NZ Ltd
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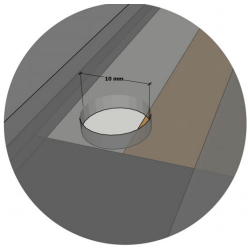
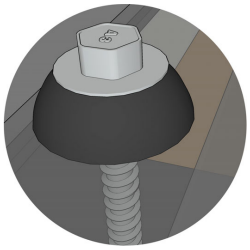
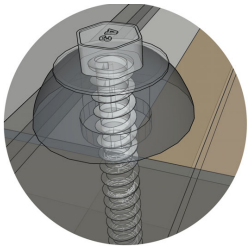
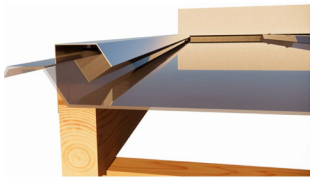
THERMAL EXPANSION

» Polycarbonate expands and contracts with temperature changes
» Allow approximately 1mm expansion per metre of sheet length
» Fixings must allow clearance around the screw to accommodate movement

FLASHINGS AND TERMINATIONS



» Barge Flashings
Polycarbonate Barge Flashing may be used along roof edges

» Metal Back Channel Flashing
Used at wall junctions or sheet terminations
Installed with Back Channel Infill Foam Strip to support sheet profile

» Apron Flashing
Where the roof meets a wall, apron flashing may be required.
Apron Flashings are supplied and installed by others as designs vary depending on the building

CLEANING AND MAINTENANCE

» Clean sheets with warm water and mild detergent using a soft cloth or sponge
» Do not use:
- » Solvents
- » Strong chemical cleaners
- » Spray-and-leave cleaning products
- » Abrasive cleaners
- » Moss or mould treatments

SWARF REMOVAL

» Cutting or drilling may produce metal or plastic swarf
» Remove all swarf immediately from sheet surface to prevent staining or damage

PROTECTIVE FILM

» Remove protective film immediately after installation
» Do not leave protective film exposed to sunlight for extended periods

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