ALSYNITE ONE

LASERGLAZE

GLASS-LOOK PROFILED POLYCARBONATE

PRODUCT TECHNICAL STATEMENT

Version: 1.1 March 2026 | Issued by Alsynite One NZ Ltd

PRODUCT DESCRIPTION

LASERGLAZE™ is a translucent roofing system manufactured from UV-stabilised polycarbonate. The product is supplied as profiled polycarbonate sheets with associated proprietary accessories. LASERGLAZE™ is a re-graded version of the previously supplied Custom Glaze product, with increased sheet thickness and revised fixing centres.

INTENDED USE

LASERGLAZE™ is intended for use in residential and commercial, open-sided, non-habitable structures such as pergolas, patios, verandas and carports. The product is not a weathertight roofing system and must not be used where full enclosure or weathertight performance is required, unless specifically designed and detailed by others.

PRODUCT PROPERTIES

Material: UV-stabilised polycarbonate
Total sheet width: 670mm
Typical rafter centres: 600mm
Sheet thickness: 2.5mm
Effective cover width: 600mm

INSTALLATION & SUPPORT CONDITIONS

LASERGLAZE™ sheets may be fixed directly to rafters or to purlins running perpendicular to rafters. Rafter spacing must not exceed 600 mm centres. Purlin spacing, sizing and fixing design must be determined by the project designer or structural engineer, taking into account wind zone, roof pitch and site-specific conditions.

Installation must be carried out strictly in accordance with the LASERGLAZE™ Installation Guide.

CONTRIBUTION TO NEW ZEALAND BUILDING CODE COMPLIANCE

When installed and used within the stated scope and in accordance with Alsynite One documentation, LASERGLAZE™ may contribute to compliance with the following clauses of the New Zealand Building Code:

- B1 Structure – B1.3.1, B1.3.2 (contribution only; not a primary structural element)
- B2 Durability – B2.3.1(b)
- C3 Fire – C3.4, C3.5 (material behaviour only; not a fire-resisting element)
- E2 External Moisture – E2.3.1, E2.3.2 (open-sided structures only)
- F2 Hazardous Building Materials – F2.3.1

Compliance is subject to project-specific design, detailing, and consent authority acceptance.

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FIRE PERFORMANCE & TEST EVIDENCE

LASERGLAZE™ polycarbonate sheeting is manufactured from the same fire retardant polycarbonate base material as the Alsynite products assessed in BRANZ Reports FAR4580 and FI5603. The product range has undergone a naming rationalisation, with LASERGLAZE™ replacing the previously supplied Custom Glaze profile, however the underlying material formulation relevant to fire performance remains unchanged. On this basis the fire performance behaviour is considered equivalent to the products assessed within the BRANZ reports.

Fire test evidence is provided as supporting information only and relates solely to the tested or assessed configurations. LASERGLAZE™ is not claimed to be non-combustible and does not provide fire separation or fire resistance.

LIMITATIONS

LASERGLAZE™ does not provide structural bracing or full weathertight performance. The product must not be walked on and must be installed, cleaned and maintained in accordance with Alsynite One documentation. Use of prohibited cleaning chemicals may result in material degradation and loss of warranty.

DURABILITY & WARRANTY

When installed and maintained in accordance with Alsynite One documentation, LASERGLAZE™ is supplied with a 15-year manufacturer's warranty. Warranty benefits apply in addition to rights and remedies available under the New Zealand Consumer Guarantees Act 1993.

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