FOAMGLAS® READY BOARD T4+ / T3+ Roof Insulation

Product Technical Statement: 115605

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Torch-on-ready cellular glass roof board: R0.95-R5.55 (EN 13167), 40-200 mm, up to 600 kPa

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Level of assurance needed to demonstrate NZ Building Code Compliance

LOW

Supporting documentation should include self-assessment and technical information by manufacturer

FOAMGLAS® confirms that this minimum level of assurance has been met or exceeded by the following:
Owens Corning
Insulation systems for flat roofs - system guide (build-ups, bonding, tapered schemes) - INT edition

BPIR

The following information has been provided by FOAMGLAS® demonstrating how this product complies with the Building Product Information Requirements.

Technical Statement

Product Class

CLASS 1

Product Description

FOAMGLAS® READY BOARD is Owens Corning's roof insulation board for warm roofs with torch-on membranes: 1200 x 600 mm boards of FOAMGLAS slabs bonded with bitumen, with a PE-foil top face that takes the torched membrane directly and a white glass fleece underside. Two grades: T4+ (110 kg/m3) for heavy-load roofs, vehicle decks and plant areas; T3+ (95 kg/m3) for lower conductivity under lighter loads. Accumen Shapes Ltd, New Zealand distributor for FOAMGLAS since 2019, supplies READY BOARD and Owens Corning's roofing accessories on indent.

Why specify READY BOARD?

- Thermal resistance declared board by board: T4+ RD 0.95 (40 mm) to 4.85 (200 mm) m2K/W from lambda-D 0.041 W/mK; T3+ RD 1.35 (50 mm) to 5.55 (200 mm) from lambda-D 0.036 W/mK (EN 13167, DoPs 120210015B and 120210065B, declared; not AS/NZS 4859.1).

- Takes the load: compressive strength 600 kPa or more (T4+) and 500 kPa or more (T3+), creep CC(1.5/1/50) 225 kPa (EN 826, EN 1606, declared) - the substrate for podium and trafficked roofs.

- Built-in vapour control: closed glass cells, vapour resistance infinite, zero capillarity (declared).

- Dimensionally stable and inert: does not shrink, swell, rot or feed vermin; conductivity does not change with time (DoP).

- Third-party certified: CE marking to EN 13167, Keymark, FM approval (Owens Corning datasheets); EPDs to EN 15804 for both grades (IBU, 2026).

- Fire, stated straight: the cellular glass core is Euroclass A1, but the board as supplied - bitumen bonded, PE-faced - is Euroclass E (EN 13501-1, declared). No NZ Group Number is claimed.

- Formats: 1200 x 600 mm; T4+ 40-200 mm, T3+ 50-200 mm; tapered and other sizes on request.

Datasheets, DoPs and EPDs at foamglas.com; Accumen supplies the roof-system guides.

Scope of use

READY BOARD is thermal insulation for warm-roof construction with torch-applied bituminous waterproofing membranes: flat and pitched roofs on concrete, timber and metal decks; heavy-load roofs including vehicle access and equipment plant (T4+); podium decks; and, by extension of the same build-up, terraces and green roofs to the membrane manufacturer's design. Grade by duty: T4+ (110 kg/m3, 600 kPa or more) where loads are concentrated or trafficked; T3+ (95 kg/m3, 500 kPa or more, lambda-D 0.036 W/mK) for better thermal value under lighter loads. Thickness to the required R-value: T4+ 40-200 mm, T3+ 50-200 mm; tapered schemes and other sizes on request. Boards are fully bonded in hot bitumen or a FOAMGLAS cold adhesive to Owens Corning's roof-system details, joints sealed, and the membrane torched to the PE face.

Limitations: not a structural element and not a waterproofing layer - the membrane system and its fire and weathertightness performance are specified separately (E2 is not claimed). The board as supplied is Euroclass E; no NZ Group Number is claimed. Protect from impact and point loads before the membrane and any protection layer are in place; cellular glass is brittle. Install only to Owens Corning's roof-system recommendations and the membrane manufacturer's instructions; handle per the Owens Corning safe-use sheet OCPC00009.

Company Contact Details

FOAMGLAS

Brand:	FOAMGLAS®
Company:	Accumen Shapes Ltd
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New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1(b)
  B2.3.1(b) 15 years: in-service history of cellular glass on European flat roofs, assessed on B2/AS1 principles, with the manufacturer's DoP durability declarations (thermal conductivity and fire performance do not change with time). Documents: DoP 120210015B (READY BOARD T4+) and DoP 120210065B (READY BOARD T3+), both 17 Feb 2025, at foamglas.com and hosted at accumen.co.nz/insulation/foamglas. Conditions: fully bonded to the deck, kept protected under a maintained membrane and any protection or ballast layer, within the published loads. Where the roof element requires 50-year durability that assessment is project-specific and by the design professional.
- **Clause E3 Internal moisture:** Performance E3.3.1
  E3.3.1: component contribution - vapour-impermeable insulation (water vapour resistance infinite; water absorption WS / WL(P)) declared by the manufacturer, limiting interstitial condensation risk in a warm-roof build-up; the roof build-up and vapour-control design are by the designer. Documents: DoPs 120210015B (T4+) and 120210065B (T3+), 17 Feb 2025 - at foamglas.com and hosted at accumen.co.nz/insulation/foamglas.
- **Clause F2 Hazardous building materials:** Performance F2.3.1
  F2.3.1: hazard status of the product as supplied - an article, not classified hazardous. Document: Owens Corning Safe Use Instruction Sheet, FOAMGLAS boards, blocks and PERINSUL, OCPC00009, rev. 22 May 2018 (linked from the Owens Corning product pages and hosted at accumen.co.nz/insulation/foamglas). Glass dust from cutting is managed per the sheet: gloves, eye protection, dust control.
- **Clause H1 Energy efficiency :** Performance H1.3.1(a)
  H1.3.1(a): H1/AS1 or H1/VM1 via construction R-value calculation by the designer using the declared RD / lambda-D to EN 13167 (T4+ RD 0.95-4.85 m2K/W, lambda-D 0.041 W/mK; T3+ RD 1.35-5.55, lambda-D 0.036 W/mK). Documents: DoP 120210015B (READY BOARD T4+, 17 Feb 2025); DoP 120210065B (READY BOARD T3+, 17 Feb 2025); Owens Corning PDS T4+ (08.05.2025) and T3+ (02.06.2025) - at foamglas.com and hosted at accumen.co.nz/insulation/foamglas. No AS/NZS 4859.1 declaration is held; the listing says so.

Notes

H1.3.1(a): contributes thermal resistance to the roof - declared RD values per thickness (EN 13167; T4+ from lambda-D 0.041 W/mK, T3+ from 0.036 W/mK) for use in construction R-value calculations by the designer; no AS/NZS 4859.1 declaration is held. E3.3.1: vapour-impermeable insulation (mu infinite, declared) limits interstitial condensation risk in the warm-roof build-up designed by the designer. B2.3.1(b): inert cellular glass; the manufacturer declares that thermal conductivity does not change with time - expected service life not less than 15 years when kept protected under the membrane; 50-year elements are assessed by the designer. F2.3.1: an article, not classified hazardous (Owens Corning SUIS OCPC00009). Fire: Euroclass E as supplied - no Group Number or C-clause contribution is claimed. E2 rests with the membrane system. The product is a component within a roof; compliance of the installed system rests with the design professional.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

H1 (envelope): EN 13167:2012+A1:2015 - Owens Corning DoP 120210015B (READY BOARD T4+, 17 Feb 2025, AVCP 3): lambda-D 0.041 W/mK, RD 0.95-4.85 m2K/W for 40-200 mm; DoP 120210065B (READY BOARD T3+, 17 Feb 2025): lambda-D 0.036 W/mK, RD 1.35-5.55 for 50-200 mm; Owens Corning PDS T4+ (8 May 2025) and T3+ (2 Jun 2025) - all values declared, Keymark certified. Construction R-values at system level by the designer. E3: DoP - water vapour resistance infinite, water absorption WS / WL(P), declared. B2: B2/AS1 basis - in-service history of cellular glass since 1937 plus the DoP durability declarations (conductivity and fire performance do not change with time). F2: Owens Corning Safe Use Instruction Sheet OCPC00009 (rev. 22 May 2018). Fire: Euroclass E as supplied (DoPs; WFRGENT classification report 18075C for FOAMGLAS boards, product as such) - the core is A1 (WFRGENT 19402A short-form for T3+) - no NZ Group Number claimed. Environmental: EPD-PCE-20260420-IBA1-EN (T4+) and EPD-PCE-20260419-IBA1-EN (T3+), IBU, 18 Aug 2026. Documents are published by Owens Corning; classification reports available on request, complete and unaltered.

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

Owens Corning
Insulation systems for flat roofs - system guide (build-ups, bonding, tapered schemes) - INT edition

Use in Service History

Cellular glass has been made since 1937, when Pittsburgh Corning built its first plant in Pittsburgh, USA; Owens Corning now makes FOAMGLAS in the USA, Belgium, the Czech Republic and China. FOAMGLAS boards and slabs have insulated flat roofs across Europe for decades - compact warm roofs, podiums, car-park decks and plant roofs - and READY BOARD is the factory-faced version for

torch-on membranes. New Zealand stock comes from Owens Corning's European plants (Tessenderlo, Belgium and Klasterec, Czech Republic, the sites covered by the 2026 EPDs), CE-marked to EN 13167 with Declarations of Performance, Keymark certification and third-party surveillance. Accumen Shapes has been the New Zealand distributor for FOAMGLAS since 2019 and supplies READY BOARD on indent; every carton carries the Owens Corning label and production lot.

Product Criteria

Design requirements

Choose the grade by load: T4+ (600 kPa or more) for vehicle decks, plant areas, podiums and any roof with concentrated or trafficked loads; T3+ (500 kPa or more, lambda-D 0.036 W/mK) where thermal value matters more than load. Select thickness from the declared RD table (T4+ 0.95-4.85 m2K/W, T3+ 1.35-5.55) to meet the required construction R-value, calculated by the designer for the whole build-up; tapered schemes for falls on request. The board is fully bonded - hot bitumen or FOAMGLAS cold adhesive to the deck or vapour-control layer, joints sealed, membrane torched directly to the PE face - to Owens Corning's roof-system details, and the membrane is specified separately for E2 and fire. Design the build-up for the loads above the insulation: bearing design for point loads from plant and wheel loads is the engineer's. Exclusions: not structural; not a waterproofing layer; not for exposed or unbonded use. Accumen Technical Services: info@accumen.co.nz.

Installation requirements

Install to Owens Corning's current roof-system recommendations and the membrane manufacturer's instructions. The deck must be clean, dry, sound and to falls; apply the specified primer and, where required, the vapour-control layer. Fully bond each board with hot bitumen or the specified FOAMGLAS cold adhesive, pressing it down so the bed is continuous, boards tightly butted with staggered joints; multi-layer work has joints staggered between layers. Seal joints and the top surface as the system requires, then torch the bituminous membrane directly to the PE-faced top. Do not leave boards unprotected: keep traffic off until the membrane and any protection layer are in place, and spread plant loads with boards. Cut with a saw; cellular glass is brittle - handle with care and do not drop. Cutting releases glass dust: gloves, eye protection and dust control per Owens Corning safe-use sheet OCPC00009. Store flat in cartons on pallets, dry and protected from weather.

Maintenance requirements

READY BOARD is inert cellular glass and needs no maintenance once covered by the membrane. Durability relies on the roof system above it: inspect the membrane, flashings, upstands, outlets and any protection or ballast layer annually and after any roof-top works, and repair membrane damage promptly so that water and mechanical damage are kept out of the insulation layer. Where the membrane is opened for repair, replace any board that is cracked, crushed or saturated through damage before re-covering. Do not add plant or traffic the roof was not designed for. The contribution of the product to B2.3.1 assumes these conditions are maintained; specified durability for the element remains a project-specific assessment by the design professional.

Warrantees

FOAMGLAS READY BOARD is manufactured by Owens Corning (Pittsburgh Corning Europe NV, Tessenderlo, Belgium) and supplied in New Zealand by Accumen Shapes Ltd as its distributor. The product is covered by Owens Corning's product warranty (Owens Corning provides written warranties for many FOAMGLAS products; project warranty requests go through Accumen). Guarantees under the Consumer Guarantees Act 1993 apply where applicable; nothing here limits rights under that Act or the Contract and Commercial Law Act 2017. Conditions: store, handle and install to the Owens Corning datasheets and roof-system recommendations, fully bonded and protected by the specified membrane, within the published loads. Exclusions: installation workmanship; damage after delivery; use outside the published scope; the membrane, adhesives, primers and protection layers, which are specified and warranted separately. Terms: info@accumen.co.nz.

Company Product Information

Environmental

READY BOARD is cellular glass - inorganic, made mainly from recycled glass with natural raw materials (sand, dolomite, lime), with no ozone-depleting propellants, flame-retardant additives, binders or VOCs (Owens Corning datasheet, declared) - faced with bitumen and a PE foil on top and a glass fleece underneath. The core cannot rot and is pest-proof. It is an article, not classified hazardous (Owens Corning SUIS OCPC00009); control glass dust when cutting. Environmental Product Declarations to EN 15804+A2 are published for both grades: EPD-PCE-20260420-IBA1-EN (READY T4+) and EPD-PCE-20260419-IBA1-EN (READY T3+), IBU, issued 18 Aug 2026, valid to 17 Aug 2031, covering the Tessenderlo and Klasterec plants that supply New Zealand. In service the board reduces roof heat loss for the life of the roof. Off-cuts: dispose of as construction waste to approved landfill.

Building Product Information Requirements

Manufacturer

Legal Trading Name:

Owens Corning (Pittsburgh Corning Europe NV, Tessenderlo, Belgium)

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Company Website:
www.foamglas.com

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Importer

Legal Trading Name:
Accumen Shapes Ltd

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Product Identifier

CLASS 1 DESIGNATED BUILDING PRODUCT (BATCH-IDENTIFIED). EACH CARTON CARRIES THE OWENS CORNING PRODUCT LABEL - FOR EXAMPLE "FOAMGLAS READY BOARD T4+ 1200 X 600 X 100 MM" - WITH THE GRADE, CE MARKING REFERENCE (DOP 120210015B FOR T4+, 120210065B FOR T3+) AND A PRODUCTION LOT CODE TRACEABLE BY OWENS CORNING TO THE PLANT. THE SAME IDENTIFIERS APPEAR ON ACCUMEN DELIVERY DOCUMENTS AND INVOICES, WITH PURCHASE-ORDER AND SHIPMENT RECORDS HELD BY ACCUMEN SHAPES LTD. NO SEPARATE SKU SCHEME IS PUBLISHED.

Warnings

Not a structural element and not a waterproofing layer: the membrane system and its fire and weathertightness performance (E2) are specified separately. The board as supplied is Euroclass E (bitumen bonded, PE faced); no NZ Group Number is claimed. Cellular glass is brittle: protect from impact and point loads until the membrane and any protection layer are in place; do not drop. Cutting releases glass dust - wear gloves and eye protection and control dust (Owens Corning safe-use sheet OCPC00009). Install only fully bonded to Owens Corning's roof-system recommendations; not for exposed or unbonded use.

Date last validated: **06 November 2026**

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