



CODEMARK®

Certificate No: BRANZ-CM-1020
Date of Issue: 27 May 2020
Revision Date: 27 May 2023

CERTIFICATE HOLDER

ecoinsulation

Eco Insulation Systems Ltd

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Nicholas Hall
Managing Director
Eco Insulation Systems Ltd

CERTIFICATION BODY



BRANZ
BRANZ Limited

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Cheyldra Percy
Chief Executive Officer
BRANZ Limited

PRODUCT CERTIFICATE

THIS IS TO CERTIFY ECOINSULATION BLOW-IN EXTERNAL WALL

KEY INFORMATION

1. DESCRIPTION BUILDING METHOD

ecoinsulation Blow-In External Wall is a solution designed for retrofitting exterior walls with Supafil Frame insulation. The solution includes a Building Assessment, Masonry Protection Barrier installation for masonry walls, Supafil Frame insulation installation and a Post-Installation Audit. Supafil Frame insulation is a water-repellent, loose-fill, fibrous glasswool thermal insulation product. Supafil Frame insulation is identified by branded bags with labels containing detailed product and batch information. The Masonry Protection Barrier is used to reduce water penetration through masonry veneer walls, and is specified by Eco Insulation Systems Ltd.

2. USE OF BUILDING METHOD

ecoinsulation Blow-In External Wall is a solution for retrofitting loose-fill insulation into existing uninsulated walls clad with masonry veneer or direct fixed claddings (as defined in the NZBC Acceptable Solution E2/AS1).

3. COMPLIES WITH THE FOLLOWING PROVISIONS OF THE NEW ZEALAND BUILDING CODE (NZBC)

Clause B1 STRUCTURE: Performance B1.3.2 and B1.3.3 [a].

Clause B2 DURABILITY: Performance B2.3.1 [a] not less than 50 years and [c] 5 years.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

3A ECOINSULATION BLOW-IN EXTERNAL WALL ALSO CONTRIBUTES TO THE FOLLOWING PROVISIONS OF THE NZBC:

Clause E3 INTERNAL MOISTURE: Performance E3.3.1.

Clause H1 ENERGY EFFICIENCY: Performance H1.3.1 [a] and H1.3.2E.

4. COMPLIES WITH THE REQUIREMENTS OF THE BUILDING ACT 2004 - SECTION 112 (ALTERATIONS TO EXISTING BUILDINGS)

ECOINSULATION BLOW-IN EXTERNAL WALL, WHEN RETROFITTED INTO EXTERIOR WALLS OF EXISTING BUILDINGS, WILL NOT REDUCE THE LEVEL OF COMPLIANCE OF THE EXISTING BUILDING FOR THE FOLLOWING PERFORMANCES:

Clause B1 STRUCTURE: Performance B1.3.1 and B1.3.2.

Clause C2 PREVENTION OF FIRE OCCURRING: Performance C1.3.2.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2, E2.3.5 and E2.3.7.

Clause G9 ELECTRICITY: Performance G9.3.1 [d] and [e].

Clause G12 WATER SUPPLIES: Performance G12.3.7 [b].

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building (Product Certification) Regulations 2008.

This Certificate is issued by BRANZ Limited, an independent certification body accredited by the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. MBIE disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the building method(s) or products(s) referred to in this certificate.

It is advised to check that this Product Certificate is currently valid and not withdrawn, suspended or superseded by a later issue, by referring to the MBIE website, www.mbie.govt.nz

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5. CONDITIONS AND LIMITATIONS OF USE

- 5.1 The **eco**insulation Blow-In External Wall solution is for retrofitting to existing buildings with:
 - Timber framed walls with direct fixed cladding which must have wall underlay; or,
 - Timber framed walls with masonry veneer cladding with or without wall underlay.
- 5.2 The **eco**insulation Blow-In External Wall solution must install Supafil Frame insulation through the internal wall lining.
- 5.3 The building must be deemed suitable for the **eco**insulation Blow-In External Wall solution by an Eco Insulation Systems Ltd trained and approved assessor prior to installation by an Eco Insulation Systems Ltd trained and approved installer.
- 5.4 Buildings with masonry veneer claddings must have the Eco Insulation Systems Ltd specified Masonry Protection Barrier applied prior to the installation of Supafil Frame insulation by an Eco Insulation Systems Ltd trained and approved installer.

6. HEALTH AND SAFETY INFORMATION

Supafil Frame insulation is a loose-fill, fibrous, glasswool insulation material. Manufacturer's instructions, the guidelines in NZS 4246 and typical practices for working with glasswool insulation should be observed.

7. REFERENCE DOCUMENTS

This Product Certificate must be read in conjunction with:

- **eco**insulation – Customer Guidance, Blow-In retrofit wall insulation, V1.0, 01/20.
- **eco**insulation Blow-In Customer Guidance - Maintenance, V1.0, 01/20.

SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

8. SUPPORTING INFORMATION ABOUT DESCRIPTION OF THE BUILDING METHOD

BUILDING SYSTEM SPECIFICATION

The building system consists of the following processes and products:

- **Building Assessment** - an evaluation process designed to identify whether a building is suitable for the application of the **eco**insulation Blow-In External Wall solution.
- **Insulation Installation** - a process designed to ensure that the Supafil Frame insulation is installed to the correct specifications and only into wall cavities identified in the Building Assessment.
- **Post-Installation Audit** - a process designed to audit the installation of each building to ensure that the Insulation Installation process has achieved a consistent Supafil Frame insulation density and no voids were formed.
- **Supafil Frame insulation** - a loose-fill, water-repellent, fibrous, glasswool insulation material designed to be blown into exterior walls. It is white in colour and has a thermal conductivity of 0.0385 W/mK at 15 °C at its target density of 25 kg/m³ [masonry veneer]; or 0.0358 W/mK at 15 °C at its target density of 30 kg/m³ [direct fixed claddings].
- **Masonry Protection Barrier** - is an Eco Insulation Systems Ltd specified, water-repellent protection barrier for masonry veneer walls.



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9. SUPPORTING INFORMATION ABOUT INTENDED USE OF THE BUILDING METHOD

ASSESSMENT REQUIREMENTS

The Building Assessment must be carried out in accordance with the Eco Insulation Systems Ltd procedure.

INSTALLATION REQUIREMENTS

Installation must be carried out in accordance with the Eco Insulation Systems Ltd procedure.

POST-INSTALLATION AUDIT REQUIREMENTS

After completion of the installation, a Post-Installation Audit is carried out by Eco Insulation Systems Ltd trained and approved assessors, and a report is supplied to the building owner.

MAINTENANCE REQUIREMENTS

Ongoing maintenance requirements for the building owner are documented in the **ecoinsulation** Blow-In Customer Guidance - Maintenance, V1.0, 01/20.

For masonry veneer claddings, the condition of the Masonry Protection Barrier is required to be assessed by Eco Insulation Systems Ltd trained and approved assessors at intervals of five years, and maintained where necessary.

For direct fixed claddings, the building owner must maintain the cladding coating systems, in accordance with the coating manufacturer's instructions.

Building owners must maintain minimum ground clearances of the exterior claddings, as set out by the cladding manufacturer and/or NZBC Acceptable Solution E2/AS1 throughout the life of the building.

BUILDING CODE

B2 DURABILITY

The **ecoinsulation** Blow-In External Wall solution, when installed and maintained in accordance with the details given in the Technical Literature, meets code compliance with NZBC Clause B2.3.1 [a], not less than 50 years for the Supafil Frame insulation, and [c], 5 years for the Masonry Protection Barrier.

H1 ENERGY EFFICIENCY

The Supafil Frame insulation has been assessed for its contribution to the thermal performance of existing buildings. The following thermal conductivities are achieved:

- 0.0358 W/mK at 15°C at a target density of 30 kg/m³ [direct fixed claddings]; or
- 0.0385 W/mK at 15 °C at a density of 25 kg/m³ [masonry veneer].

The **ecoinsulation** Blow-In External Wall solution, when installed and maintained in accordance with the details given in the Technical Literature, contributes to meeting code compliance with NZBC Clauses H1.3.1[a] and H1.3.2E.

10. SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

All conditions and limitations provided as stated in this Product Certificate.

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building (Product Certification) Regulations 2008.



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11. BASIS FOR CODEMARK CERTIFICATION

The following evaluations have been carried out on the **eco**insulation Blow-In External Wall solution to determine compliance with the NZBC:

- A durability and hazardous building materials assessment has been undertaken on Supafil Frame insulation by BRANZ technical experts.
- An assessment of the thermal conductivity of Supafil Frame insulation was completed by BRANZ.
- An assessment of Supafil Frame insulation against the requirements of E3 Internal Moisture and H1 Energy Efficiency was completed to determine the contribution to compliance with the NZBC.
- Site inspections have been carried out by BRANZ to assess the Eco Insulation Systems Ltd processes for Building Assessments, product installation, and Post-Installation Audits.
- The referenced Technical Literature has been examined by BRANZ and found to be satisfactory.
- BRANZ has assessed the Product Quality Plan for the **eco**insulation Blow-In External Wall solution under which the responsibilities are assigned as follows:
 - The quality of supply to the market is the responsibility of Eco Insulation Systems Ltd.
 - Eco Insulation Systems Ltd trained and approved building assessors are responsible for the pre-installation assessment of the building and deeming the building suitable for the **eco**insulation Blow-In External Wall solution.
 - Eco Insulation Systems Ltd trained and approved installers are responsible for the installation of Supafil Frame insulation and the Masonry Protection Barrier.
 - Eco Insulation Systems Ltd is responsible for the Post-Installation Audits.

12. DOCUMENTATION SUPPORTING CERTIFICATION

- ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
- NZS 4246: 2016 Energy Efficiency - installing bulk thermal insulation in residential buildings.
- Ministry of Business, Innovation and Employment - Guidance on Building Code compliance for retrofitting insulation in external walls. ISBN: 978-0-478-38110-8 [online].
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.

13. CONDITIONS RELATING TO NOTIFICATION

The certificate holder [Eco Insulation Systems Ltd] must notify the product certification body [BRANZ] in writing, of any intended change to any of the following particulars:

- The name, address, or contact details of the certificate holder;
- Any address of a location where a certified product is produced or manufactured.

The certificate holder shall notify the product certification body in writing of any intended change, modification, or alteration to any of the following:

- The certified building method or product;
- The method of its production or manufacture;
- The Product Quality Plan prepared in respect of the certified building method or product;
- The application or installation instructions for the certified building method or product;
- Any documentation relating to the use and maintenance of the certified building method or product.

If the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder shall notify the product certification body in writing of the reason for that suspicion.

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If the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder shall disclose that fact in a published disclosure statement in a form that is acceptable to the product certification body and to MBIE.

If the certificate is suspended or revoked, the certificate holder—

- Shall notify all customers to whom the building method or product is regularly supplied; and
- Immediately cease using the certificate, the mark of conformity, and any reference to the number of this certificate.

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