

# CERTIFICATE OF CONFORMITY

This product Certificate is issued under Section 269 of the Building Act 2004 for:



## Earthwool® Glasswool Insulation

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### Product Description

Earthwool® Glasswool is a mineral fibre type bulk insulation that complies with AS/NZS 4859.1:2002 (incorporating Amendment No.1) and is supplied as batts or rolls with thickness between 50 mm and 275 mm, and nominal density between 8 kg/m<sup>3</sup> and 30 kg/m<sup>3</sup> with binder content no greater than 8%.

Earthwool® Glasswool is manufactured with recycled glass and ECOSE® Technology binder which is created from renewable materials. The product types and special characteristics are listed below:

- Earthwool® Glasswool Acoustic Batts – Basic at 11 kg/m<sup>3</sup>; Ultra at 14 kg/m<sup>3</sup>; and, High-Density at 17 kg/m<sup>3</sup>, 20 kg/m<sup>3</sup> and 27 kg/m<sup>3</sup>
- Earthwool® Glasswool Acoustic Roll – Basic at 11 kg/m<sup>3</sup>, High-Density at 24 kg/m<sup>3</sup>
- Earthwool® Glasswool Ceiling Batts
- Earthwool® Glasswool Multi-Use Rolls
- Earthwool® Glasswool Roof Blanket – has optional foil backing
- Earthwool® Glasswool Underfloor Roll – faced with a black glass wind wash barrier
- Earthwool® Glasswool Wall Batts

### Product purpose and use

Non-combustible bulk thermal insulation for residential and commercial construction within the following scope:

- Walls when installed in the cavities between framing members.
- Floors when installed in the cavities between flooring members.
- Roofs when installed over and between roof framing.
- Ceilings when installed in the cavities between the ceiling members.

### Certificate holder

Knauf Insulation Pty Ltd  
Unit 1, 44 Borthwick Avenue, Murarrie, QLD, 4172, Tel: +61 7 3393 7300, Web: [www.knaufinsulation.com.au](http://www.knaufinsulation.com.au)

| CodeMark Certification Body   |                                    | 6/9/2018      | 13/09/2018  | 6/9/2021                      | GM-CM30095-RevA1   |
|---|------------------------------------|---------------|-------------|-------------------------------|--------------------|
| Global-Mark Pty Ltd, Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia<br>Tel: +61 (0)2 9886 0222<br><a href="http://www.Global-Mark.com.au">www.Global-Mark.com.au</a> | Herve Michoux<br>Managing Director | Date of issue | Last update | Date of next re-certification | Certificate Number |

The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In issuing this certificate, Global-Mark has relied on the independent expert and/or laboratory advise or reports. This certificate is issued by Global-Mark Pty Limited, an independent certification body accredited by the product certification accreditation body (JAS-ANZ) appointed by the Chief Executive of the Ministry of Business Innovation and Employment under the Building Act 2004. The Ministry of Business Innovation and Employment 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. The Ministry of Business Innovation and Employment 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 product(s) referred to in this certificate. This Certificate may only be reproduced in its entirety. It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the Ministry of Business Innovation and Employment website, <http://www.mbie.govt.nz/> New Zealand Building Code (NZBC) references the Building Code in force at the time of issuing the product certificate. Certificate holder will notify Global-Mark Pty Ltd in accordance with Regulation 15 of the Building (Product Certification) Regulations 2008

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### Compliance with the New Zealand Building Code (NZBC):

**Clause B2 DURABILITY:** Performance B2.3.1(a) not less than 50 years, and B2.3.2. Earthwool® Glasswool insulation products will meet these requirements.

**Clause C3 PROTECTION FROM FIRE:** Performance C3.7(a). Earthwool® Glasswool insulation products are not combustible building materials and will contribute to meeting this requirement.

**Clause E3 INTERNAL MOISTURE:** Performance E3.3.1. Earthwool® Glasswool insulation products will contribute to meeting this requirement.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1 Earthwool® Glasswool insulation products do not present a health hazard to people.

**Clause H1 ENERGY EFFICIENCY:** Performance H1.3.1(a) and H1.3.2E. Earthwool® Glasswool insulation products will contribute to meeting these requirements

### Subject to the following conditions and limitations:

1. Specification and incorporation of Earthwool® Glasswool insulation products into the building design shall be carried out by a designer, architect, engineer, or building professional who is qualified to design the buildings covered under the scope of use of these products.
2. Specification of Earthwool® Glasswool insulation products shall be in accordance with the following documents, available at – [www.knaufinsulation.co.nz/products](http://www.knaufinsulation.co.nz/products):
  - Knauf Insulation Earthwool® Glasswool Product Price List, Ref.: KINZ0216329BR, June 2017.
  - Knauf Insulation Earthwool® Glasswool Product Datasheets as follows:
    - Earthwool® Glasswool insulation: Acoustic, Ref.: KINZ0914116DS, January 2017
    - Earthwool® Glasswool insulation: Ceiling, Ref.: KINZ1213029DS, April 2017
    - Earthwool® Glasswool insulation: Ceiling roll, Ref.: KINZ0914115DS, January 2017
    - Earthwool® Glasswool insulation: Commercial rolls, Ref.: KINZ1014122DS, October 2015
    - Earthwool® Glasswool insulation: Underfloor Roll, Ref.: KINZ0616380DS, June 2016
    - Earthwool® Glasswool insulation: Wall, Ref.: KINZ00914114DS, January 2017
    - Earthwool® Glasswool: Multi-Use roll, Ref.: KINZ0616396DS, June 2017
    - Earthwool® Glasswool: Quilted underfloor segments, Ref.: KINZ0317511DS, August 2017
3. Installation shall be carried out by a Knauf Insulation accredited installer and installed in accordance with NZS 4218:2009 or NZS 4246:2016, and the relevant Earthwool® Glasswool installation instructions as specified below and which are available at – [www.knaufinsulation.co.nz/products](http://www.knaufinsulation.co.nz/products) – to meet the stated thermal performance rating of the insulation:
  - Installation Instructions – Earthwool® Glasswool Insulation Ceiling Segments, Ref : KINZ1017631MIS
  - Installation Instructions – Earthwool® Glasswool Insulation Ceiling Rolls, Ref : KINZ1017632MIS
  - Installation Instructions – Earthwool® Glasswool Quilted Underfloor Segments, Ref : KINZ0817602MIS
  - Installation Instructions – Earthwool® Glasswool Insulation Underfloor Roll, Ref : KINZ1017636MIS
  - Installation Instructions – Earthwool® Glasswool Insulation Wall Segments, Ref : KINZ1017633MIS
4. Installation shall be carried out only after the building is waterproof, and after the materials within the building have dried to a sufficient degree that moisture is not transported into the insulation material.
5. Refer to Table 1 for a schedule of Earthwool® Glasswool Insulation products covered by this certificate.

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Table 1: Knauf Earthwool® Glasswool Product Schedule

### Acoustic Batts

| Material Codes | Thickness (mm) | Density (kg/m <sup>3</sup> ) | Est.R-value (m <sup>2</sup> K/W) | Width (mm) | Length (mm) |
|----------------|----------------|------------------------------|----------------------------------|------------|-------------|
| 529446         | 50             | 11                           | 1.3                              | 600        | 2700        |
| 529447         | 75             | 11                           | 1.9                              | 600        | 2700        |
| 471045         | 50             | 14                           | 1.4                              | 580        | 1160        |
| 471049         | 75             | 14                           | 2.0                              | 580        | 1160        |
| 471047         | 75             | 14                           | 2.0                              | 430        | 1160        |
| 471070         | 90             | 20                           | 2.6                              | 430        | 1160        |
| 471071         | 90             | 20                           | 2.6                              | 580        | 1160        |
| 471040         | 90             | 27                           | 2.8                              | 430        | 1160        |
| 471041         | 90             | 27                           | 2.8                              | 580        | 1160        |

### Wall Batts

| Material Codes | Thickness (mm) | Density (kg/m <sup>3</sup> ) | R-value (m <sup>2</sup> K/W) | Width (mm) | Length (mm) |
|----------------|----------------|------------------------------|------------------------------|------------|-------------|
| 471045         | 50             | 14                           | 1.4                          | 580        | 1160        |
| 471049         | 75             | 14                           | 2.0                          | 580        | 1160        |
| 471038         | 90             | 11                           | 2.2                          | 580        | 1160        |
| 471039         | 90             | 15                           | 2.4                          | 580        | 1160        |
| 471070         | 90             | 20                           | 2.6                          | 430        | 1160        |
| 471071         | 90             | 20                           | 2.6                          | 580        | 1160        |
| 471040         | 90             | 27                           | 2.8                          | 430        | 1160        |
| 471041         | 90             | 27                           | 2.8                          | 580        | 1160        |
| 471042         | 140            | 10                           | 3.2                          | 580        | 1160        |
| 470319         | 140            | 13                           | 3.6                          | 580        | 1160        |
| 505604         | 140            | 21                           | 4.1                          | 580        | 1160        |

### Wall Batts - Metal Frame

| Material Codes | Thickness (mm) | Density (kg/m <sup>3</sup> ) | R-value (m <sup>2</sup> K/W) | Width (mm) | Length (mm) |
|----------------|----------------|------------------------------|------------------------------|------------|-------------|
| 248360         | 50             | 11                           | 1.3                          | 600        | 2700        |
| 2437819        | 75             | 11                           | 1.9                          | 600        | 2700        |

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### Ceiling Batts

| Material Codes | Thickness (mm) | Density (kg/m <sup>3</sup> ) | R-value (m <sup>2</sup> K/W) | Width (mm) | Length (mm) |
|----------------|----------------|------------------------------|------------------------------|------------|-------------|
| 583498         | 130            | 9                            | 2.9                          | 430        | 1160        |
| 471052         | 150            | 9                            | 3.2                          | 430        | 1160        |
| 470320         | 105            | 23                           | 3.2                          | 430        | 1160        |
| 583500         | 155            | 10                           | 3.3                          | 430        | 1160        |
| 471053         | 175            | 7                            | 3.6                          | 430        | 1160        |
| 471073         | 195            | 8                            | 4.1                          | 430        | 1160        |
| 471054         | 210            | 11                           | 5.2                          | 430        | 1160        |
| 471055         | 275            | 9                            | 6.3                          | 430        | 1160        |

### Roof Blanket

| Material Codes | Thickness (mm) | Density (kg/m <sup>3</sup> ) | R-value (m <sup>2</sup> K/W) | Width (mm) | Length (mm) |
|----------------|----------------|------------------------------|------------------------------|------------|-------------|
| 511820         | 55             | 11                           | 1.4                          | 1200       | 30000       |
| 511822         | 60             | 13                           | 1.6                          | 1200       | 28000       |
| 511826         | 75             | 12                           | 1.9                          | 1200       | 23000       |
| 511830         | 100            | 10                           | 2.4                          | 1200       | 17500       |
| 511833         | 105            | 12                           | 2.6                          | 1200       | 16500       |
| 511837         | 120            | 13                           | 3.1                          | 1200       | 14500       |
| 511842         | 130            | 13                           | 3.3                          | 1200       | 13500       |
| 470317         | 150            | 13                           | 3.6                          | 1200       | 7000        |

### Multi-use roll

| Material Codes | Thickness (mm) | Density (kg/m <sup>3</sup> ) | R-value (m <sup>2</sup> K/W) | Width (mm) | Length (mm) |
|----------------|----------------|------------------------------|------------------------------|------------|-------------|
| 253095         | 90             | 10                           | 2.2                          | 430        | 19000       |
| 253093         | 90             | 10                           | 2.2                          | 580        | 19000       |
| 432158         | 90             | 20                           | 2.6                          | 580        | 12500       |