

Earthwool® glasswool insulation acoustic batts

Product Technical Statement: 104858



Earthwool® glasswool insulation: Acoustic batts provide high acoustic performance.

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Level of assurance needed to demonstrate NZ Building Code Compliance

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



Earthwool® glasswool insulation confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

[648](#)



Technical Statement

Product Description

The Earthwool® glasswool insulation: Internal wall batt range is a new generation of softer, safer and more environmentally friendly glasswool insulation.

This specialist acoustic range of products is available in an Ultra Performance 14kg/m³ density.

Earthwool® glasswool insulation: Internal wall batts reduce unwanted noise from outside and also limit sound transmission from room to room or office to office.

| E-Code | Density (kg/m³) | Thickness (mm) | R-Value (est) | Width (mm) | Length (mm) | m²/ Pack |
|--------|-----------------|----------------|---------------|------------|-------------|----------|
| E2890 | 14 | 50 | 1.4 | 430 | 1160 | 19.0 |
| E2905 | 14 | 50 | 1.4 | 580 | 1160 | 25.6 |
| E3094 | 14 | 75 | 2.0 | 430 | 1160 | 12.0 |
| E3088 | 14 | 75 | 2.0 | 580 | 1160 | 16.2 |
| E4332 | 20 | 90 | 2.6 | 430 | 1160 | 6.9 |
| E4333 | 20 | 90 | 2.6 | 580 | 1160 | 9.4 |
| E4473 | 27 | 90 | 2.8 | 430 | 1160 | 4.9 |
| E4335 | 27 | 90 | 2.8 | 580 | 1160 | 6.7 |

Scope of use

Supply and install the selected Earthwool® glasswool insulation to walls, floors, ceilings, roofs and other areas as identified on the drawings, complete with accessories.

All aspects of this work shall be in complete accordance with Knauf Insulation product manuals and installation guides, (check www.knaufinsulation.co.nz, or call 0800 562 834 for the latest editions), Earthwool® glasswool insulation BRANZ Appraisal, other relevant product manufacturers' recommendations, and as shown on the drawings.

No substitutions are permitted for Earthwool® glasswool insulation.

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(a)
- **Clause E3 Internal moisture:** Performance E3.3.1
- **Clause F2 Hazardous building materials:** Performance F2.3.1
- **Clause H1 Energy efficiency :** Performance H1.3.1

Evidence

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

Earthwool glasswool insulation is an Acceptable Solution in terms of New Zealand Building Code Compliance.

Earthwool glasswool insulation thermal resistance (R-value) has been determined by testing to AS/NZS 4859.1 which is an acceptable method.

Supporting Evidence

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



BRANZ Appraisal

[648](#)

masterspec partner

Company Contact Details

EARTHWOOL
the feel good glasswool insulation
GLASSWOOL

Brand: Earthwool® glasswool insulation

Company: Knauf Insulation New Zealand

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Auckland

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Auckland

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Website: <http://www.knaufinsulation.co.nz>

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Product Criteria

Design requirements

Earthwool glasswool insulation: Internal wall segments provide a cost-effective thermal and acoustic barrier for energy-efficient construction. The consistent quality, low dust, and clean-cutting resilient fibres make fabrication easy and installation fast. Earthwool glasswool insulation: Internal wall segments can be used in timber and metal frame applications in residential structures.

These applications include thermal and acoustic treatments to walls, ceilings and floors. Knauf Insulation offers Earthwool glasswool insulation: Internal wall segments in a wide range of sizes and R-values.

Earthwool glasswool insulation can be used for cavity walls, floors, ceilings, attics, basements and crawlspaces. It is highly resilient, recovering quickly to full thickness. It also greatly reduces the transmission of noise in the home.

Installation requirements

Installation of Earthwool glasswool insulation must be completed by an installer with an understanding of insulation installation, in accordance with the instructions given within the Technical Literature, Installation Instructions and BRANZ Appraisal.

Installation of Earthwool glasswool insulation must be in accordance with the Knauf Insulation's Technical Literature, Installation Instructions and BRANZ Appraisal. NZS 4246 should be used as a guide for installing insulation in residential buildings in New Zealand

The product must be installed only when the building is enclosed and when the construction materials have achieved the required maximum moisture content or less, to ensure the insulation does not become wet

Maintenance requirements

The building must be maintained weatherproof at all times.

If, during normal routine maintenance it is discovered that moisture has entered the building envelope, or that dampness has occurred because of leaking plumbing or some other source, then that source must be repaired immediately.

Wet or damp insulation must be removed and then replaced with new insulation of an equivalent acoustic rating. Cavities must be clean, dry and free of all contaminants and mould before fitting new insulation.

NZS 4246 Paragraph 3.3 gives guidance on thermal insulation maintenance due to water damage.

Company Product Information

Environmental

Earthwool glasswool insulation: Internal wall segments are free from CFCs, HCFCs and any other material with ozone depletion potential in its manufacture and content and represents no known threat to the environment.

Earthwool glasswool insulation: Internal wall segments' manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.

Knauf Insulation mineral wool products with ECOSE Technology benefit from a revolutionary, bio-based, formaldehyde-free binder technology, based on rapidly renewable materials, instead of petro-based chemicals. It reduces embodied energy and delivers superior environmental sustainability.

The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE Technology contain no dye or artificial colours - the colour is completely natural.

Quality Assurance



ISO 9001 (Quality Management)

Relationships



Member of New Zealand Green Building Council



EcoSpecifier Global GreenTag Level A



Date last validated: **07 July 2020**



Date last updated: **07 July 2020**

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