

Earthwool® glasswool insulation ceiling segments

Product Technical Statement: 108930



Earthwool® glasswool is made using recycled glass and with ECOSE® Technology.

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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:

CodeMark

[30095](#)

BRANZ Appraisal

[648](#)



Technical Statement

Product Description

The Earthwool® range of glasswool insulation products don't look or feel like any insulation you've ever experienced, that's because the natural brown colour represents a level of sustainability and ease of handling never before achieved in New Zealand. The colour and super-soft feel of this insulation comes from a revolutionary sustainable binder which does not contain the petro-based chemicals, added formaldehyde or artificial colours commonly used in other glasswool insulation.

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), B2.3.1(b)
- **Clause E3 Internal moisture:** Performance E3.3.1
- **Clause F2 Hazardous building materials:** Performance F2.3.1
- **Clause G6 Airborne and impact sound:** Performance G6.3.1
- **Clause H1 Energy efficiency :** Performance H1.3.1, H1.3.1(a), H1.3.2E

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) is declared in accordance with the requirements of 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:



CodeMark

[30095](#)



BRANZ Appraisal

[648](#)

Product Criteria

Design requirements

Earthwool glasswool insulation: Ceiling segments provide a cost effective thermal and acoustical barrier for energy efficient construction. The insulation's consistent quality, low dust, and clean cutting

masterspec partner

Company Contact Details



Brand: Earthwool® glasswool insulation

Company: Knauf Insulation New Zealand

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Auckland

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resilient wool makes installation fast.

Earthwool glasswool insulation: Ceiling segments can be used in timber and metal frame applications in residential and commercial structures.

Knauf Insulation offers Earthwool glasswool insulation: Ceiling 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 thermal 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.

Warrantees

Knauf Insulation Pty Ltd (ACN 129 827 336) and Knauf Insulation Ltd (Registered NZ Company No. 35 271 92) - (Knauf) - warrant that Earthwool® glasswool insulation products (Product) are manufactured in accordance with AS/NZS-4859.1 and are fit for the purpose of insulating ceilings, external timber frame walls, underfloors and internal acoustic partitions, if tested in accordance with the methodology referred to in AS/NZS-4859.1, if properly installed in accordance with the installation instructions and if maintained according to relevant Standards including AS-3999/NZS-4246.

Conditions apply - visit the following link for full warranty details and conditions:

https://pim.knaufinsulation.com/files/download/kinz0818745wa_knauf_-_earthwool_glasswool_warranty.pdf

Company Product Information

Environmental

Earthwool® glasswool products are manufactured using recycled glass and have GreenRate™ Level A certification. GreenTag™ is a third party, green building product rating and certification system. Certification makes it easy for designers and building owners to gain rewards under Green Star and Homestar credits system.

Earthwool® glasswool has been certified by the International Living Futures Institute and has been awarded the Declare Red List Free label meaning that none of the raw materials used in its manufacture are on the International Living Futures Institute red list.

Earthwool® glasswool is also free from CFCs, HCFCs and any other material with known ozone depletion potential and represents no known threat to the environment. Knauf Insulation's unique binder technology - ECOSE® Technology - is bio-based and is based on rapidly renewable materials, instead of petro-based chemicals. ECOSE® Technology results in up to 70% less embodied carbon than traditional binders used in alternative glasswool products.

Quality Assurance



ISO 9001 (Quality Management)

Relationships



Member of New Zealand Green Building Council



EcoSpecifier Global GreenTag Level A

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Eurofins Gold level - No. Iacg-323-01-25-2022



International Living Futures Institute International Living Futures Institute



Warrington Fire - Certifire Non-combustible - No. AC100.1



Date last validated: **26 January 2023**



Date last updated: **26 January 2023**

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