

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

Advanced compression packaging reduces handling time and the risk of damage in transit and on-site. Although the product is primarily designed for use in external walls it can also be used for internal walls to reduce sound transmission from room to room.

It is thermally efficient and cost effective in saving energy and providing increased comfort in buildings.

Segments are the traditional insulation product for insulating external walls and are available in thicknesses to suit 90mm and 140mm timber and metal frames.

E-code	R-Value	Thickness (mm)	Width (mm)	Length (mm)	m²/Pack
	1.3	45	580	1160	16.1
E4330	2.2	90	580	1160	19.5
E4727	2.4	90	580	1160	13.5
E4332	2.6	90	430	1160	7.0
E4333	2.6	90	580	1160	9.4
E4473	2.8	90	430	1160	5.0
E4335	2.8	90	580	1160	6.7
	3.6	140	580	1160	10.1
	4.1	140	580	1160	6.1
	4.4	140	580	1160	4.0

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.

masterspec partner

Company Contact Details



Brand: Earthwool® glasswool insulation

Company: Knauf Insulation New Zealand

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

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: External 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: External wall segments can be used in timber and metal frame applications. These applications include thermal and acoustic treatments to walls, ceilings and floors.

Knauf Insulation offers Earthwool glasswool insulation: External 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 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 insulation wall batts

Product Technical Statement: 104856



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



Eurofins Gold level - No lacg-323-01-25-2022



International Living Futures Institute Declare Red List Free - No. KNF0043



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

Videos

[Wall Installation Video](#)



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