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## Earthwool® glasswool insulation: Underfloor Roll

### Description

Earthwool glasswool: Underfloor roll is faced with a black glass wind wash barrier and is made using recycled glass and with ECOSE® Technology, a revolutionary binder based on rapidly renewable materials instead of petro-based chemicals. ECOSE Technology reduces embodied energy and contains no added phenol, formaldehyde, acrylics or artificial colours.

### Application

Earthwool glasswool: Underfloor roll provides a cost-effective thermal and acoustical barrier for energy-efficient construction. The consistent quality, low dust, and clean-cutting resilient glasswool makes installation fast. Earthwool glasswool: Underfloor roll can be used in timber frame applications in residential and commercial structures. These applications include thermal and acoustical treatments to floors.

### Performance

#### Thermal Conductivity

ASTM C 518 and AS/NZS 4859.1: 2002

#### Thermal Resistance

ASTM C 653 and AS/NZS 4859.1: 2002

### Technical Data

#### Water Vapour Absorption (ASTM C 1104)

- Less than 5% by weight.

#### Corrosion Resistance (ASTM C 665)

- No greater than sterile cotton.

#### Microbial Growth (ASTM C 1338)

- Does not support microbial growth.

#### Fire Hazard Properties (AS/NZS 1530.3)

- Ignitability: 0, Spread of flame: 0, Heat Evolved: 0, Smoke Developed: 0-1.

#### Combustibility (AS 1530.1)

- Non-combustible



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### Specification Compliance

AS/NZS 4859.1: 2002 Materials used in the Thermal Insulation of Buildings and comply with the New Zealand Building Code requirements: B2 – Durability, E3 – External Moisture, F2 – Hazardous Building Materials, and H1 – Energy Efficiency.

The Earthwool glasswool: Underfloor range is an acceptable solution in terms of the New Zealand Building Code. This product is designed for use in timber framed floors in new and existing domestic and commercial buildings.

### Bio-solubility

The formulation used for Earthwool glasswool insulation has been independently assessed to meet the requirements of the stringent Note Q standard (and is therefore consistent with the highest Australian and New Zealand industry standards), and also assessed by Knauf Insulation against the criteria of the Australian Safety and Compensation Council ASCC Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008 3rd Edition]. As a result of this assessment, Earthwool glasswool insulation is not classified as hazardous according to the NOHSC criteria.

### Features and Benefits

#### Proven Performance

- Wind wash barrier for improved thermal performance.
- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission.

#### Durability

- Earthwool glasswool insulation is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

#### Superior Handling

- Packs contain two rolls which can be split for easy installation under the floor.
- Highly resilient insulation recovers quickly to full thickness for a snug fit and superior finished aesthetics.
- Consistent quality materials feel good, cut easily and install fast.
- Low dust for easier handling and increased productivity.

#### Convenient Packaging, Easier Handling

- Earthwool glasswool insulation is packaged in a strong, white film that offers excellent protection from abuse, dust and moisture.
- Earthwool glasswool insulation packages feature easy to follow installation instructions.
- MasterBag insulation units (containing multiple packs) ensure reduced handling costs with improved compression – more square metres per bag, more square metres per truck load, fewer trips to the job site and less warehouse space for storage.

#### Superior Service and Support

- Knauf Insulation is totally focused on providing first class customer service, producing high quality product and 'on time in full' deliveries.
- Knauf Insulation supports a professional network of distributors and re-sellers in order to service a growing insulation market.
- Knauf Insulation is committed to providing a comprehensive range of relevant sales and marketing literature and web-based technical information to support specifiers and customers.

Knauf Insulation's Earthwool glasswool products with ECOSE® Technology benefit from a formaldehyde-free binder based on rapidly renewable materials instead of petro-based chemicals.

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. Earthwool glasswool products made with ECOSE Technology contain no dye or artificial colours – the colour is completely natural.

### Specification Guide

The underfloor insulation shall be Earthwool glasswool: Underfloor roll with a wind wash barrier R\*, \*mm thick, faced with a black glass wind wash barrier. The product will be non-combustible, CFC/HCFC free, zero ODP & GWP, glasswool insulation with high post-consumer recycled glass content and with ECOSE® Technology. It will be manufactured under Quality Assurance Standards ISO 9001:2008 and ISO 14001:2004 by Knauf Insulation and shall be installed in accordance with the instructions issued by them.

\*architect to insert details of products used.

For more information please visit  
[www.knaufinsulation.co.nz](http://www.knaufinsulation.co.nz)

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### Environmental

- Earthwool glasswool: Underfloor roll is 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: Underfloor roll manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.

Product Code	R-Value (m <sup>2</sup> K/W)	Thickness (mm)	Length (mm)	Width (mm)	Rolls per pack	Area per pack (m <sup>2</sup> )
492704	1.8	75	10000	600	2	12
546232	1.8	75	10000	500	2	10



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