

EARTHWOOL® GLASSWOOL INSULATION: UNDERFLOOR ROLL

October 2019



with **ECOSE** TECHNOLOGY

APPLICATIONS



DESCRIPTION

Earthwool® glasswool insulation: underfloor roll with a wind-wash barrier provides a superior solution for improving the thermal performance of timber frame floors. The wind-wash barrier provides protection from air movement under the floor. Adding to the already easy to handle and install qualities of Earthwool® glasswool, the insulation can be stapled in place. Earthwool® glasswool insulation: underfloor roll will improve the thermal comfort and energy efficiency of the building in which it has been installed thus keeping it cool in summer and warm in winter. Super-soft to handle and install, Earthwool® glasswool is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.

PERFORMANCE

Thermal

Thermal conductivity:
Thermal resistance:

ASTM C 518 and AS/NZS 4859.1: 2002.
ASTM C 653 and AS/NZS 4859.1: 2002.

Fire Hazard Properties (AS/NZS 1530.3)

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

Water Vapour Absorption

Less than 5% by weight.

Microbial Growth

Does not support microbial growth.

Corrosion Resistance

No greater than sterile cotton.

Combustibility (AS 1530.1)

Non-combustible.

*The above data excludes the facing

BENEFITS

- ✓ High thermal performance - year round comfort
- ✓ Wind-wash barrier - protection from air movement
- ✓ Non-combustible
- ✓ Saves energy - lower energy bills
- ✓ No added formaldehyde
- ✓ Soft to handle and install
- ✓ Can be stapled in place
- ✓ Compression packed - more product per pack
- ✓ Odourless.

CERTIFICATION



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ADDITIONAL INFORMATION

Specification Guide

The underfloor insulation shall be Earthwool® glasswool insulation: 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.

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. Earthwool® glasswool insulation: underfloor roll with wind-wash barrier 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.

Environmental

- Earthwool® glasswool insulation: underfloor roll with wind-wash barrier represents no known threat to the environment and have zero Ozone Depletion Potential and zero Global Warming Potential.

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.

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SPECIFICATIONS

Product Code	R-Value (m ² K/W)	Thickness (mm)	Width (mm)	Length (mm)	Rolls per pack	Area per pack (m ²)
654389	1.8	75	600	10000	2	12
546235	1.8	75	500	10000	2	10



Earthwool® glasswool products made with ECOSE® Technology benefit from a no added formaldehyde binder, which is less energy intensive than traditional binders and is based on rapidly renewable, bio-based 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 added dyes or artificial colours.

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