

EARTHWOOL® UNDERFLOOR ROLL

August 2019



with **ECOSE**[®] TECHNOLOGY

APPLICATIONS



DESCRIPTION

Earthwool® 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®, the insulation can be stapled in place. Earthwool® 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® 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/NZ 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



challenge.
create.
care.

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ADDITIONAL INFORMATION

Specification Compliance

AS/NZS 4859.1: 2002 Materials used in the Thermal Insulation of Buildings and comply with the Building Code of Australia (BCA) requirements.

Specification Guide

The underfloor insulation shall be Earthwool® Underfloor roll R*, *mm thick, faced with a black glass wind wash barrier. The Glasswool will be non-combustible, CFC/HCFC free, zero ODP and 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.

Bio-solubility

The formulation used for Earthwool® 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® insulation is not classified as hazardous according to the NOHSC criteria.

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® 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 600mm wide 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® insulation is packaged in a strong, white film that offers excellent protection from abuse, dust and moisture.
- Earthwool® 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.

Environmental

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

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SPECIFICATIONS

Product Code	R-Value (m ² K/W)	Thickness (mm)	Length (mm)	Width (mm)	Rolls per pack	Weight per pack (kg)	Area per pack (m ²)
492704	1.7	75	10000	600	2	11.3	12



Earthwool® 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® products made with ECOSE® Technology contain no added dyes or artificial colours.

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