



October 2015

Earthwool® Underfloor Roll

Description

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

Application

Earthwool 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 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



EARTHWOOL®
the feel good glasswool insulation

with **ECOSE®**
TECHNOLOGY

Earthwool® Underfloor Roll

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.

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.

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 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 bag 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.

Knauf Insulation's Earthwool products with ECOSE® Technology benefit from a formaldehyde-free binder based on rapidly renewable materials instead of petro-based chemicals which is up to 70% less energy intensive. 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 dye or artificial colours – the colour is completely natural.

Specification Guide

The underfloor insulation shall be Earthwool Underfloor Roll R*, *mm thick, faced with a black glass wind wash barrier. The product 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.

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Product Code	Thickness (mm)	R-Value	Length (mm)	Width (mm)	Rolls per Pack	Area per pack (m ²)	Weight per pack (kg)
492704	75	1.7	10000	1200	2 (600mm wide rolls)	12	11.3



Knauf Insulation Ltd

Unit 1, 44 Borthwick Avenue
 Murarrie QLD 4172
 Australia

Customer Service and Sales

Tel: +61 7 3393 7300
 Fax: +61 7 3902 0613
 1800 562 834
 Email: orders.au@knaufinsulation.com

Technical Advisory Centre

Email: tech.au@knaufinsulation.com

For more information please visit
www.knaufinsulation.com.au