



November 2011

EarthWool® Roof Rolls

Description

Knauf Insulation's EarthWool® Roof Rolls are intended for both thermal and acoustical applications, and have optional foil facing. They are made from highly resilient, inorganic glass fibres bonded by ECOSE® Technology, a revolutionary new binder based on rapidly renewable bio-based materials rather than non-renewable petroleum-based chemicals. ECOSE® Technology reduces Knauf Insulation binder embodied energy and contains no phenol, formaldehyde, acrylics or artificial colours found in traditional glasswool insulation.

Application

EarthWool® Roof Rolls provide a cost-effective thermal and acoustical barrier for energy-efficient construction. Their consistent quality, low dust, and clean-cutting resilient fibres make fabrication easy and installation fast. EarthWool® Roof Rolls can be used in new and retrofit applications in residential and commercial structures, as well as in off or on-site manufactured housing. These applications include thermal and acoustical treatments to metal and roof tile applications. The range of roof insulation can be faced with standard foil laminates or they can be faced and cut to length according to your specification.

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 Vapor 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 Resistance (ASTM C 136)

- 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 Building Code of Australia (BCA) requirements.

Bio-solubility

Glasswool insulation fibres have been tested in laboratory studies according to EC protocols ECB/TM27 REV. 7, 1998 and shown to be bio-soluble. KNS3 fibres comply with the short term biopersistence test and fulfill the requirements of Australian and international authorities on bio-solubility. EarthWool® is BRANZ certified.

Features and Benefits

Proven Performance

- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission when properly installed in roof systems.
- Foil-faced roofing rolls provide condensation control.

Durability

- EarthWool® Roof Rolls are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Superior Handling

- 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® Roof Rolls are packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Our packages feature easy to follow installation instructions.

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 recognises the need to establish, develop and support 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® products with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-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.

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Item Ref. No.	Thickness (mm)	R-Value (m ² K/W)	Dimensions (mm)	Pieces per Pack	m ² per pack
Roof Rolls Plain					
L131237	55	1.3	1200x37000	1	44.4
L181226	75	1.8	1200x26000	1	31.2
L231222	100	2.3	1200x22000	1	26.4

Item Ref. No.	Thickness (mm)	Dimensions (mm)	Mesh size (mm)	Pieces per Pack	m ² per roll
Safety Support Mesh					
SM180050	2	1800x50M	300x150	1	90.0
SM225050	2	2250x50M	300x150	1	112.5

All faced product can be supplied cut-to-length. Products are AS/NZS 4859.1 compliant.

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