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## Earthwool® Acoustic Roll

### Description

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

### Application

Earthwool Acoustic 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 Acoustic roll can be used to upgrade the acoustic and thermal performance of masonry walls in residential and commercial structures.

### Light Commercial Applications

Earthwool Acoustic roll can improve Rw ratings in wood stud construction by 3 to 5 decibels and in metal stud construction by 8 to 10 decibels, depending on the complexity of the wall configuration and the thickness/density. Earthwool Acoustic roll can be used for exterior and interior walls.

### Performance

#### Thermal Conductivity

ASTM C 518

### 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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### 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

- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission in the home when properly installed.

#### Durability

- Earthwool Acoustic roll is odourless, rot proof, non-hygroscopic, does 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 Acoustic rolls are packaged in a strong, poly bag that offers excellent protection from abuse, dust and moisture.
- Earthwool Acoustic roll packaging features 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 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.

#### Environmental

Earthwool Acoustic roll is free from CFCs, HCFCs and any other material with ozone depletion potential in the manufacture and content and represent no known threat to the environment. Earthwool Acoustic rolls' manufacture has 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 has a lower embodied energy than our traditional glasswool. 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 acoustic insulation shall be Earthwool Acoustic roll \*kg/m<sup>3</sup>, \*mm thick. The product will be non-combustible, CFC/HCFC free, zero ODP and GWP, Global GreenTag Cert™ Level A certified, 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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### Acoustic Roll – 11 kg/m<sup>3</sup>

11 kg/m <sup>3</sup>	Material Code	Thickness (mm)	Density (kg/m <sup>3</sup> )	Est. R-Value (m <sup>2</sup> K/W)	Width (mm)	Length (m)	Pieces per Pack	Area per pack (m <sup>2</sup> )
	607094	75	11	1.8	600	11.6	2	13.92

### Acoustic Roll – 24 kg/m<sup>3</sup>

24 kg/m <sup>3</sup>	Material Code	Thickness (mm)	Density (kg/m <sup>3</sup> )	Est. R-Value (m <sup>2</sup> K/W)	Width (mm)	Length (m)	Pieces per Pack	Area per pack (m <sup>2</sup> )
	543490	25	24	0.7	600	18.9	2	22.68



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