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## Earthwool® Ceiling Batts

### Description

Earthwool Ceiling batts are made using recycled glass and with ECOSE® Technology, a revolutionary 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 Ceiling batts provide 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 Ceiling batts can be used in timber frame applications in residential and commercial structures. Knauf Insulation offers Earthwool Ceiling batts in a wide range of sizes.

### 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.

### 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

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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 Ceiling batts are 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 Ceiling batts are packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Earthwool Ceiling batt 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 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 Ceiling batts are 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 Ceiling batts' 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 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 ceiling insulation shall be Earthwool Ceiling batts R\*, \*mm thick, BRANZ appraised to meet the provisions of the BCA. 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.

For more information please visit  
[www.knaufinsulation.com.au](http://www.knaufinsulation.com.au)

## Earthwool® Ceiling Batts

Ceiling Batts – Timber Frame	E-Code	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions (mm)	Pieces per Pack	Area Per Pack (m <sup>2</sup> )	Weight Per Pack (kg)
	E2264	125	2.5	430x1160	30	15.0	13.8
	E2265	125	2.5	580x1160	30	20.2	18.6
	E2270	145	3.0	430x1160	23	11.5	13.2
	E2271	145	3.0	580x1160	23	15.5	17.8
	E2281	175	3.5	580x1160	21	14.1	18.2
	E4342	175	3.5	430x1160	21	10.5	13.4
	E2283	195	4.0	580x1160	18	12.1	18.4
	E4343	195	4.0	430x1160	18	9.0	13.6
	E2285	210	5.0	580x1160	11	7.4	17.7
	E4344	210	5.0	430x1160	11	5.5	13.2
	E2287	275	6.0	580x1160	11	7.4	18.3
	E4345	275	6.0	430x1160	11	5.5	13.6



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