



June 2009

EarthWool™ Wall and Ceiling Batts

Description

Knauf Insulation's EarthWool™ Wall and Ceiling Batts 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™ Wall and Ceiling Batts provide a cost-effective thermal and acoustical barrier for energy-efficient construction. The batts' consistent quality, low dust, and clean-cutting resilient wool makes installation fast. EarthWool™ Wall and Ceiling Batts can be used in timber and metal frame applications in residential structures. These applications include thermal and acoustical treatments to walls, ceilings and floors. Knauf Insulation offers EarthWool™ Wall and Ceiling Batts in a wide range of sizes and R-values.

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.

EarthWool™ Wall and Ceiling Batts

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 biosolubility. EarthWool™ has BRANZ certification.

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 in walls, ceiling and floor systems.

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™ Wall and Ceiling Batts are packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- EarthWool™ Wall and Ceiling Batts packages feature easy to follow installation instructions.
- Master bag batt 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.

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.

EarthWool™ Wall and Ceiling Batts

| Item Ref. No. | Thickness (mm) | R-Value (m ² K/W) | Dimensions (mm) | Pieces per Pack | m ² per pack | kg per Pack |
|----------------------------------|-------------------|---------------------------------|--------------------|-----------------|-------------------------|-------------|
| Wall Batts - Timber Frame | | | | | | |
| AZ01EV | 75 | 1.5 | 430x1160 | 42 | 20.9 | 11.6 |
| AZ02E | 75 | 1.5 | 580x1160 | 42 | 28.3 | 15.6 |
| AZ03EV | 90 | 2.0 | 430x1160 | 32 | 16.0 | 13.6 |
| AZ04E | 90 | 2.0 | 580x1160 | 32 | 21.5 | 18.3 |
| AZ05EV | 90 | 2.5 HP* | 430x1160 | 14 | 7.0 | 11.6 |
| AZ06E | 90 | 2.5 HP* | 580x1160 | 14 | 9.4 | 15.7 |
| Walls Batts - Metal Frame | | | | | | |
| AZ07EV | 75 | 1.5 | 450x1200 | 42 | 22.7 | 12.5 |
| AZ08E | 75 | 1.5 | 600x1200 | 42 | 30.2 | 16.7 |
| AZ09EV | 90 | 2.0 | 450x1200 | 32 | 17.3 | 14.7 |
| AZ10E | 90 | 2.0 | 600x1200 | 32 | 23.0 | 19.6 |

| Item Ref. No. | Thickness (mm) | R-Value (m ² K/W) | Dimensions (mm) | Pieces per Pack | m ² per pack | kg per Pack |
|-------------------------------------|-------------------|---------------------------------|--------------------|-----------------|-------------------------|-------------|
| Ceiling Batts - Timber Frame | | | | | | |
| AZ11EV | 125 | 2.5 | 430x1160 | 30 | 15.0 | 13.8 |
| AZ12E | 125 | 2.5 | 580x1160 | 30 | 20.2 | 18.7 |
| AZ13EV | 145 | 3.0 | 430x1160 | 23 | 11.5 | 12.2 |
| AZ14E | 145 | 3.0 | 580x1160 | 23 | 15.5 | 16.4 |
| AZ17EV | 150 | 3.5 | 430x1160 | 21 | 10.5 | 13.6 |
| AZ18E | 150 | 3.5 | 580x1160 | 21 | 14.1 | 18.2 |
| AZ21EV | 195 | 4.0 | 430x1160 | 18 | 9.0 | 13.6 |
| AZ22E | 195 | 4.0 | 580x1160 | 18 | 12.1 | 18.4 |
| AZ23EV | 210 | 5.0 | 430x1160 | 11 | 5.5 | 13.0 |
| AZ24E | 210 | 5.0 | 580x1160 | 11 | 7.4 | 17.6 |
| AZ25EV | 275 | 6.0 | 430x1160 | 11 | 5.5 | 14.3 |
| AZ26E | 275 | 6.0 | 580x1160 | 11 | 7.4 | 19.3 |

*HP - High performance

Knauf Insulation Pty Ltd

Knauf Insulation Pty Ltd
Unit 2, 39 Devlan Street
Mansfield QLD 4122

Customer Service (sales)

Tel: +61 7 3343 1989
Fax: +61 7 3343 1898
Email: sales@au.knaufinsulation.com

Technical Support

Email: tech@au.knaufinsulation.com

www.knaufinsulation.com.au