

Knauf

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[EarthWool™ Ceiling and Wall Thermal Batts](#)
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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

ECOSE® Technology

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.

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.

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.

Durability

- EarthWool™ Wall and Ceiling Batts 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™ 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.

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	11.5
AZ02E	75	1.5	580x1160	42	28.3	15.5
AZ03EV	90	2.0	430x1160	32	16.0	13.4
AZ04E	90	2.0	580x1160	32	21.5	18.2
AZ05EV	90	2.5 HP*	430x1160	14	7.0	11.5
AZ06E	90	2.5 HP*	580x1160	14	9.4	15.5
Wall Batts- Metal Frame						
AZ07EV	75	1.5	450x1200	42	22.7	12.4
AZ08E	75	1.5	600x1200	42	30.2	16.6
AZ09EV	90	2.0	450x1200	32	17.3	15.4
AZ10E	90	2.0	600x1200	32	23.0	20.4
<i>*HP - High performance</i>						
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	13.7
AZ12E	125	2.5	580x1160	30	20.2	18.5
AZ13EV	145	3.0	430x1160	23	11.5	13.4
AZ14E	145	3.0	580x1160	23	15.5	17.7
AZ17EV	175	3.5	430x1160	21	10.5	13.4
AZ18E	175	3.5	580x1160	21	14.1	18.1

AZ21EV	195	4.0	430x1160	18	9.0	13.5
AZ22E	195	4.0	580x1160	18	12.1	18.2
AZ23EV	210	5.0	430x1160	11	5.5	12.9
AZ24E	210	5.0	580x1160	11	7.4	17.4
AZ25EV	275	6.0	430x1160	11	5.5	14.1
AZ26E	275	6.0	580x1160	11	7.4	19.0

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