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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 frame applications in residential and commercial structures. Knauf Insulation offers Earthwool Wall and Ceiling Batts in a wide range of sizes.

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 Resistance (ASTM E 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 biosolubility. Earthwool® products are BRANZ appraised.

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 Wall and 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 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 Batt packages feature easy to follow installation instructions.
- Master bag 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 Wall and 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 Wall and 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 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.



For more information please visit
www.knaufinsulation.com.au

Earthwool® Wall and Ceiling Batts

Wall Batts – Timber Frame	E-Code	Thickness (mm)	R-Value	Dimensions (mm)	Pieces per Pack	m ² Per Pack	kg Per Pack
	E2253	75	1.5	430x1160	42	20.9	11.6
	E2255	75	1.5	580x1160	42	28.3	15.6
	E3591	75	2.0 HD	430x1160	20	10.0	13.0
	E3592	75	2.0 HD	580x1160	20	13.5	17.5
	E2259	90	2.0	430x1160	32	16.0	13.5
	E2261	90	2.0	580x1160	32	21.5	18.3
	E4332	90	2.5 HD	430x1160	14	7.0	11.6
	E4333	90	2.5 HD	580x1160	14	9.4	17.0
	E4473	90	2.7 SHD	430x1160	10	5.0	12.2
	E4335	90	2.7 SHD	580x1160	10	6.7	16.5
	E4340	140	3.1	580x1160	22	14.8	19.4

HD = High Density SHD = Super High Density

Wall Batts – Metal Frame	E-Code	Thickness (mm)	R-Value	Dimensions (mm)	Pieces per Pack	m ² Per Pack	kg Per Pack
	E2254	75	1.5	450x1200	42	22.7	12.5
	E2257	75	1.5	600x1200	42	30.2	16.7
	E3594	75	2.0	450x1200	20	10.8	14.1
	E3595	75	2.0	600x1200	20	14.4	18.8
	E2260	90	2.0	450x1200	32	17.3	14.7
	E2262	90	2.0	600x1200	32	23.0	19.6

Ceiling Batts – Timber Frame	E-Code	Thickness (mm)	R-Value	Dimensions (mm)	Pieces per Pack	m ² Per Pack	kg Per Pack
	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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