



January 2017

Earthwool® Wall Batts

Description

Earthwool Wall 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 Wall 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 Wall batts can be used in timber frame applications in residential and commercial structures. Knauf Insulation offers Earthwool Wall 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 Wall 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 batts are packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Earthwool Wall 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 Wall 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 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. 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 external wall insulation shall be Earthwool External Wall 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.

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Wall Batts – Timber Frame	Material Code	E-Code	Thickness (mm)	R-Value (m ² K/W)	Width (mm)	Length (mm)	Pieces per Pack	Area Per Pack (m ²)	Weight Per Pack (kg)
	243521	E2253	75	1.5	430	1160	42	20.9	11.6
	243523	E2255	75	1.5	580	1160	42	28.3	15.6
	244462	E3591	75	2.0 HD	430	1160	20	10.0	13.0
	2438626	E3592	75	2.0 HD	580	1160	20	13.5	17.5
	2437523	E2259	90	2.0	430	1160	32	16.0	13.5
	2437528	E2261	90	2.0	580	1160	32	21.5	18.3
	2437532	E4332	90	2.5 HD	430	1160	14	7.0	11.6
	2437533	E4333	90	2.5 HD	580	1160	14	9.4	17.0
	256735	E4473	90	2.7 SHD	430	1160	10	5.0	12.2
	251511	E4335	90	2.7 SHD	580	1160	10	6.7	16.5
	E4340	140	3.1	580	1160	22	14.8	19.4	

HD = High Density SHD = Super High Density

Wall Batts – Metal Frame	Material Code	E-Code	Thickness (mm)	R-Value (m ² K/W)	Width (mm)	Length (mm)	Pieces per Pack	Area Per Pack (m ²)	Weight Per Pack (kg)
	2437522	E2254	75	1.5	450	1200	42	22.7	12.5
	2437524	E2257	75	1.5	600	1200	42	30.2	16.7
	2438628	E3594	75	2.0 HD	450	1200	20	10.8	14.1
	2438629	E3595	75	2.0 HD	600	1200	20	14.4	18.8
	2437526	E2260	90	2.0	450	1200	32	17.3	14.7
	2437529	E2262	90	2.0	600	1200	32	23.0	19.6



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