

EARTHWOOL® INTERNAL (ACOUSTIC) WALL BATT

August 2019



with **ECOSE**[®]
TECHNOLOGY

APPLICATIONS



DESCRIPTION

The Earthwool® Internal (Acoustic) Wall batt range includes a selection of densities to provide builders, designers, installers and DIYers the opportunity to choose the best acoustic performance for their project. Earthwool® Internal (Acoustic) Wall batts will improve the acoustic performance of the building in which they have been installed by absorbing the transfer of unwanted sound from external sources and between adjoining rooms. Super-soft to handle and install, Earthwool® is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.

PERFORMANCE

Thermal

Thermal conductivity

ASTM C 518.

Fire Hazard Properties (AS/NZ 1530.3)

Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 0-1.

Water Vapour Absorption

Less than 5% by weight.

Microbial Growth

Does not support microbial growth.

Corrosion Resistance

No greater than sterile cotton.

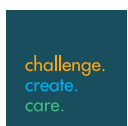
Combustibility (AS 1530.1)

Non-combustible.

BENEFITS

- ✓ Sound absorbing
- ✓ High thermal performance - year round comfort
- ✓ Non-combustible
- ✓ Saves energy - lower energy bills
- ✓ No added formaldehyde
- ✓ Soft to handle and install
- ✓ 50 year warranty
- ✓ Compression packed - more product per pack
- ✓ Odourless.

CERTIFICATION



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ADDITIONAL INFORMATION

Specification Compliance

AS1530.1 Method of Fire Testing on Building Materials. AS1530.3 Early fire Hazard Properties. Earthwool® Internal (Acoustic) Wall batt will contribute to compliance with the Building Code of Australia (BCA) requirements.

Specification Guide

The acoustic insulation shall be Earthwool® Internal (Acoustic) Wall batt *kg/m³, *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.

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.

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® Internal (Acoustic) Wall batt is 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® Internal (Acoustic) Wall batt is packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Earthwool® Internal (Acoustic) 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 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® Internal (Acoustic) Wall batt is 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® Internal (Acoustic) Wall batts' manufacture has low impact on the environment and is classified as Zero ODP and Zero GWP.

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SPECIFICATIONS

	Product Code	Est. R-Value (m ² K/W)	Density (kg/m ³)	Thickness (mm)	Length (mm)	Width (mm)	Pieces per pack	Area per pack (m ²)
Timber Frame	290594	1.2	11	50	1160	430	40	19.95
	248352				1160	580	40	26.91
	290599	1.8	11	75	1160	430	28	13.97
	290600				1160	580	28	18.84
Metal Frame	248361	1.2	11	50	2700*	450	20	24.30
	248360				2700*	600	20	32.40
	248362	1.8	11	75	2700*	450	14	17.01
	2437819				2700*	600	14	22.68
	546373				1160	600	20	13.92

Basic Acoustic Batts – 11kg/m³ | *folded

	Product Code	Est. R-Value (m ² K/W)	Density (kg/m ³)	Thickness (mm)	Length (mm)	Width (mm)	Pieces per pack	Area per pack (m ²)
Timber Frame	2437822	1.3	14	50	1160	430	38	18.95
	2438637				1160	580	38	25.57
	2438916	1.9	14	75	1160	430	24	11.97
	2438638				1160	580	24	16.15
Metal Frame	2437560	1.3	14	50	1160	450	38	19.84
	2437561				1160	600	38	26.45
	2437562	1.9	14	75	1160	450	24	12.53
	2437563				1160	600	24	16.70

Ultra Acoustic Batts – 14kg/m³

	Product Code	Est. R-Value (m ² K/W)	Density (kg/m ³)	Thickness (mm)	Length (mm)	Width (mm)	Pieces per pack	Area per pack (m ²)
Timber Frame	244462	2.0	17	75	1160	430	20	9.98
	2438626				1160	580	20	13.46
	2437532	2.5	20	90	1160	430	14	6.98
	2437533				1160	580	14	9.42
	256736	2.7	27	90	1160	430	10	4.99
	251511				1160	580	10	6.73

High Density Acoustic Batts – 17kg/m³, 20kg/m³, 24kg/m³ and 27kg/m³



Earthwool® products made with ECOSE® Technology benefit from a no added formaldehyde binder, which is less energy intensive than traditional binders and is based on rapidly renewable, bio-based 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 added dyes or artificial colours.

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