

EARTHWOOL® WALL BATT

August 2025

Applications



Description

The Earthwool® Wall batt range includes a selection of R-values to provide builders, designers, installers and DIYers the opportunity to choose the best thermal performance for their project. Earthwool® Wall batt will also absorb the transfer of unwanted sound from outside to inside the building. In addition to sound absorption, Earthwool® Wall batt will improve the thermal comfort and energy efficiency of the building in which it has been installed thus keeping it cool in summer and warm in winter.

The super-soft and easy to handle benefits of Earthwool® have been further enhanced with TwinTech®. TwinTech® heralds another advancement insulation manufacture - the dual forming technique ensures there is a smooth finish on both sides of the insulation, which improves product handling and appearance. Earthwool® is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, plant-based binder that contains no added formaldehyde.



Performance

Thermal performance	AS/NZS 4859.1 (2018)	
Fire Hazard Properties (AS/NZ 1530.3)	Ignitability: 0 Spread of Flame: 0 Heat Evolved: 0 Smoke Developed: 2-3	
Material Property	Requirement per ASTM C665-17	Pass/Fail
Water Vapour Sorption (Mass %) (ASTM C1104)*	<5	Pass
Corrosiveness - Aluminium (rating scale 15-40) (ASTM C665)*	<21	Pass
Corrosiveness - Copper (rating scale 15-40) (ASTM C665)*	<21	Pass
Corrosiveness - Steel (ASTM 1617)*	<5 ppm	Pass
Fungi Resistance (ASTM C1338)*	Growth < Comparative	Pass
Water Vapour Absorption	Less than 5% by weight when tested for 96 hours at 120°F (49°C) and 95% humidity.	
Microbial Growth	Does not support microbial growth	
Combustibility (AS 1530.1)	Non-combustible	

*Test samples were 8kg/m³ and 32kg/m³ unfaced Knauf Insulation glasswool, with ECOSE binder.

Benefits

- ✓ TwinTech® - smooth finish on both sides
- ✓ High thermal performance - year round comfort
- ✓ Sound absorbing
- ✓ Non-combustible
- ✓ Saves energy - lower energy bills
- ✓ No added formaldehyde
- ✓ Soft to handle and install
- ✓ Compression packed - more product per pack
- ✓ Odourless

Certifications



KNAUF INSULATION



Please scan the QR Code to view the complete list of certifications on our website.

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Specifications

75mm Frame

	Product Code	R-Value (m ² K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
Timber Frame	683634	2.0 HD	0.037	75	430	1160	10.0	20
	776380	2.0 HD	0.037	75	580	1160	13.5	20
Metal Frame	683687	2.0 HD	0.037	75	450	1200	10.8	20
	776382	2.0 HD	0.037	75	600	1200	14.4	20

All dimensions are nominal. | HD = High Density.

90mm Frame

	Product Code	R-Value (m ² K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
Timber Frame	2437525	2.0	0.045	90	430	1160	16.0	32
	2437528	2.0	0.045	90	580	1160	21.5	32
	2437532	2.5 HD SoundShield	0.036	90	430	1160	7.0	14
	760109	2.5 HD SoundShield	0.036	90	580	1160	9.4	14
	256736	2.7 SHD SoundShield Plus	0.033	90	430	1160	5.0	10
	251511	2.7 SHD SoundShield Plus	0.033	90	580	1160	6.7	10
Metal Frame	875429	2.5 HD SoundShield	0.036	90	450	1160	7.3	14
	876100	2.5 HD SoundShield	0.036	90	600	1160	9.7	14

All dimensions are nominal. | SHD = Super High Density.

110mm Frame

	Product Code	R-Value (m ² K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
Timber Frame	851328	3.1 HD SoundShield Plus	0.035	110	430	1160	5.0	10
	853934	3.1 HD SoundShield Plus	0.035	110	580	1160	6.7	10

All dimensions are nominal.

140mm Frame

	Product Code	R-Value (m ² K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
Timber Frame	683675	4.0 HD SoundShield Plus	0.035	140	430	1160	4.5	9
	683664	4.0 HD SoundShield Plus	0.035	140	580	1160	6.1	9

All dimensions are nominal.

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ADDITIONAL INFORMATION

Specification Compliance

AS/NZS 4859.1 (2018) Materials used in the Thermal Insulation of Buildings, AS 1530.1 Method of Fire Testing on Building Materials, AS 1530.3 Early Fire Hazard Properties. Earthwool® Wall batt will contribute to compliance with the National Construction Code (NCC) requirements.

Specification Guide

The insulation shall be Earthwool® Wall batt, R* and *mm thick, BRANZ appraised to meet the provisions of the NCC. The product will be non-combustible, Red List Free as labelled by Declare, Global GreenTag 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® Wall batt 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 Safe Work Australia (SWA). Earthwool® insulation is classified as a non-hazardous substance in line with the NOHSC: 1008 3rd Edition.

Environmental

Earthwool® Wall batt represents no known threat to the environment and comes with GreenTag Level A certification, Declare label and a certified Environmental Product Declaration. Earthwool® insulation has low VOC and benefits from ECOSE® Technology.

Proven Performance

- Earthwool® insulation is preferred by professional installers concerned with quality, appearance and productivity.
- Earthwool® insulation has excellent acoustical properties reduce sound transmission in the home when properly installed.

Installation Guidance

When installing wall insulation, it is important to install insulation in accordance with AS3999 (bulk thermal insulation installation) and Knauf Insulation's instructions.



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, plant-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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KNAUFINSULATION

Durability

- Earthwool® insulation 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® Wall batt is 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 supports a professional network of distributors and resellers 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.

Corrosion testing

- Earthwool insulation is tested to evaluate whether a material's chemical composition could cause corrosion. Knauf Insulation's glasswool products, with a consistent composition across densities, have been independently tested and demonstrated that they are non-corrosive in both low-density and high-density variants, ensuring long-term compatibility and reliable performance.