

EARTHWOOL® ACOUSTIC INSULATION

November 2019



APPLICATIONS



DESCRIPTION

The Earthwool® Acoustic insulation 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® Acoustic insulation will improve the acoustic performance of the building in which it has 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.

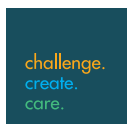
Combustibility (AS 1530.1)

Non-combustible.

BENEFITS

- ✓ Sound absorbing
- ✓ Non-combustible
- ✓ 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® Acoustic insulation will contribute to compliance with the Building Code of Australia (BCA) requirements.

Specification Guide

The acoustic insulation shall be Earthwool® Acoustic insulation, R* or *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.

Environmental

Earthwool® Acoustic insulation 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® Acoustic insulation manufacture has low impact on the environment and is classified as Zero ODP and Zero GWP.

- GreenTag Level A certified.

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® Acoustic 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® Acoustic insulation comes in strong packaging that offers excellent protection from abuse, dust and moisture.
- Earthwool® Acoustic insulation 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.

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SPECIFICATIONS

THERMAL AND ACOUSTIC PERFORMANCE

Masonry Wall (DriTherm®)	Product Code	R-Value (m²K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m²)
	475382	1.4 DriTherm®	50	600	1100	8	5.30

All dimensions are nominal

	Product Code	R-Value (m²K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m²)
Timber Frame	244462	2.0 HD	75	430	1160	20	9.98
	2438626	2.0 HD	75	580	1160	20	13.46
	2437532	2.5 HD SoundShield	90	430	1160	14	6.98
	2437533	2.5 HD SoundShield	90	580	1160	14	9.42
	256736	2.7 SHD SoundShield	90	430	1160	10	4.99
	251511	2.7 SHD SoundShield	90	580	1160	10	6.73
	631049	4.0 HD	140	430	1160	9	4.49
	505604	4.0 HD	140	580	1160	9	6.06
Metal Frame	2438628	2.0 HD	75	450	1200	20	10.80
	2438629	2.0 HD	75	600	1200	20	14.40

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

ACOUSTIC PARTITIONS - SOUND SHIELD

	Product Code	Est. R-Value (m²K/W)	Density (kg/m³)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m²)
Timber Frame	248352	1.2	11	50	580	1160	40	26.91
	290599	1.8	11	75	430	1160	28	13.97
	248355	2.4	11	100	580	1160	22	14.80
	248356	4.0	11	165	580	1160	15	10.09
Metal Frame	248361	1.2	11	50	450	2700*	20	24.30
	248360	1.2			600	2700*	20	32.40
	248362	1.8	11	75	450	2700*	14	17.01
	2437819	1.8			600	2700*	14	22.68
	546373	2.6	11	110	600	1160	20	13.92
	672594	1.2	11	50	450 (x2)	21000 ^o	2	10.4
	607094	1.8	11	75	600	11600 ^o	2	13.94
	672626	2.2	11	90	600 (x2)	11600 ^o	2	25.2
Timber Frame	2437822	1.3	14	50	430	1160	38	18.95
	2438637				580	1160	38	25.57
Metal Frame	2437560	1.3	14	50	450	1160	38	19.84
	2437561				600	1160	38	26.45

Basic Acoustic Batts – 11kg/m³ and Ultra Acoustic Batts – 14kg/m³ | *folded ^oRoll

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ACOUSTIC PARTITIONS

	Product Code	Est. R-Value (m ² K/W)	Density (kg/m ³)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m ²)
Timber Frame	2438916	1.9	14	75	430	1160	24	11.97
	2438638				580	1160	24	16.15
Metal Frame	2437562	1.9	14	75	450	1160	24	12.53
	2437563				600	1160	24	16.70
	672624	2.2	14	90	600 (x2)	9100 ^Ø	2	10.8

Ultra Acoustic Batts – 14kg/m³ | *Roll

24kg/m ³	Product Code	R-Value (m ² K/W)	Density (kg/m ³)	Thickness (mm)	Width (mm)	Length (m)	Pieces per pack	Area per pack (m ²)
	543489	0.7	24	25	600	18.9	2	22.68
	672621	2.1	24	75	600	5.3	2	9.54
	672586	2.5	24	90	600	6.2	2	7.44

Ultra Acoustic Roll – 24kg/m³

32kg/m ³	Product Code	R-Value (m ² K/W)	Density (kg/m ³)	Thickness (mm)	Width (mm)	Length (m)	Pieces per pack	Area per pack (m ²)
	672573	1.5	32	50	600 (x2)	7.2	2	8.64
	672609	2.2	32	75	600 (x2)	4.8	2	5.76
	672603	2.7	32	90	450 (x2)	4	2	3.6
	672604	2.7	32	90	600 (x2)	4	2	4.8
	672596	3.0	32	100	600 (x2)	3.6	2	4.32

Ultra Acoustic Roll – 32kg/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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