KNAUF INSULATION
it's time to save energy

October 2015

Earthwool® Acoustic Batts

Description

Earthwool Acoustic batts are made using recycled glass and with ECOSE® Technology, a revolutionary binder based on rapidly renewable materials instead of petro-based chemicals. It reduces embodied energy and contains no added phenol, formaldehyde, acrylics or articial colours.

Application

Earthwool Acoustic 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 Acoustic batts can be used in timber and metal frame applications in residential and commercial structures. Knauf Insulation offers Acoustic batts in a wide range of sizes.

Light Commercial Applications

Earthwool Acoustic batts can improve Rw ratings in wood stud construction by 3 to 5 decibels and in metal stud construction by 8 to 10 decibels, depending on the complexity of the wall configuration and the thickness/density. Earthwool Acoustic batts can be used for exterior and interior walls, floors, crawlspaces and a variety of ceiling applications.

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

EARTHWOOL® the feel good glasswool insulation

BRANZ Appraised
Appraisal No.648 [2009]
Wall, Ceiling and Acoustic

NATURALLY NO ADDED FORMALDEHYDE BROWN

with ECOSE® TECHNOLOGY

Earthwool® Acoustic Batts

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
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 Acoustic 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 Acoustic batts are packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Earthwool Acoustic 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 Acoustic 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 Acoustic 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 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.

Specification Guide
The acoustic insulation shall be Earthwool Acoustic batts *kg/m^3, *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.

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

Earthwool Acoustic Batts

Basic Acoustic Batts – 11kg/m³

		Material Code	Thickness (mm)	Density (kg/m³)	Est. R-Value (m²K/W)	Width (mm)	Length (mm)	Pieces per Pack	m²/Pack
11kg/m³	Timber Frame	290594	50	11	1.2	430	1160	40	19.95
		248352				580	1160	40	26.91
		290599	75	11	1.8	430	1160	28	13.97
		290600				580	1160	28	18.84
	(Folded) Metal Frame	248361	50	11	1.2	450	2700	20	24.30
		248360				600	2700	20	32.40
		248362	75	11	1.8	450	2700	14	17.01
		2437819				600	2700	14	22.68
		546373	110	11	2.5	600	1160	20	13.92

Ultra Acoustic Batts – 14kg/m³

		Material Code	Thickness (mm)	Density (kg/m³)	Est. R-Value (m²K/W)	Width (mm)	Length (mm)	Pieces per Pack	m²/Pack
14kg/m³	Timber Frame	2437822	50	14	1.3	430	1160	38	18.95
		2438637				580	1160	38	25.57
		2438916	75	14	1.9	430	1160	24	11.97
		2438638				580	1160	24	16.15
	Metal Frame	2437560	50	14	1.3	450	1160	38	19.84
		2437561				600	1160	38	26.45
		2437562	75	14	1.9	450	1160	24	12.53
		2437563				600	1160	24	16.70

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

	Material Code	Thickness (mm)	Density (kg/m³)	Est. R-Value (m²K/W)	Width (mm)	Length (mm)	Pieces per Pack	m²/Pack
High Density Timber Frame	244462	75	17	2.0	430	1160	20	9.98
	2438626	75	17	2.0	580	1160	20	13.46
	2437532	90	20	2.5	430	1160	14	6.98
	2437533	90	20	2.5	580	1160	14	9.42
	248357	50	24	1.4	580	1160	22	14.80
	256736	90	27	2.7	430	1160	10	4.99
	251511	90	27	2.7	580	1160	10	6.73

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