

## EARTHWOOL® EXTERNAL WALL BATT

November 2019



with **ECOSE**<sup>®</sup> TECHNOLOGY

### APPLICATIONS



### DESCRIPTION

The Earthwool® External 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® External Wall batt will also absorb the transfer of unwanted sound from outside to inside the building. In addition to sound absorption, Earthwool® External 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. 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:  
Thermal resistance:

ASTM C 518 and AS/NZS 4859.1: 2002.  
ASTM C 653 and AS/NZS 4859.1: 2002.

#### 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.

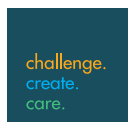
#### Combustibility (AS 1530.1)

Non-combustible.

### BENEFITS

- ✓ High thermal performance - year round comfort
- ✓ Sound absorbing
- ✓ 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



## EARTHWOOL® EXTERNAL WALL BATT

November 2019

### ADDITIONAL INFORMATION

#### Specification Compliance

AS/NZS 4859.1: 2002 Materials used in the Thermal Insulation of Buildings, AS1530.1 Method of Fire Testing on Building Materials, AS1530.3 Early Fire Hazard Properties. Earthwool® External Wall batt will contribute to compliance with the Building Code of Australia (BCA) requirements.

#### Specification Guide

The wall insulation shall be Earthwool® External Wall batt 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.

#### 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® External 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® External Wall batts' 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® 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® External Wall batt is packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Earthwool® External 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 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.

## EARTHWOOL® EXTERNAL WALL BATT

November 2019

### SPECIFICATIONS

#### STANDARD PERFORMANCE

Product Code	R-Value (m <sup>2</sup> K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m <sup>2</sup> )
2437521	1.5	75	430	1160	42	20.95
2437523	1.5	75	580	1160	42	28.26
2437525	2.0	90	430	1160	32	15.96
2437528	2.0	90	580	1160	32	21.53
679751	2.2	90	430	1160	22	10.97
636114	2.2	90	580	1160	25	16.82

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

#### THERMAL AND ACOUSTIC PERFORMANCE

Product Code	R-Value (m <sup>2</sup> K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m <sup>2</sup> )
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

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

Product Code	R-Value (m <sup>2</sup> K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m <sup>2</sup> )
475382	1.4	50	600	1100	8	5.30

All dimensions are nominal

Product Code	R-Value (m <sup>2</sup> K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m <sup>2</sup> )
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



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.

#### Knauf Insulation Ltd

23 Corporate Drive,  
Cannon Hill, Queensland, 4170, Australia

Customer Service: Tel: +61 7 3393 7300  
Fax: +61 7 3902 0613

Technical Advisory Centre: tech.au@knaufinsulation.com

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Extreme caution was observed when putting together and processing the information, texts and illustrations in this document. Nevertheless, errors cannot quite be ruled out. The publisher and editors cannot assume legal responsibility or any liability whatever for incorrect information and the consequences thereof. The publisher and editors will be grateful for improvement suggestions and details of possible errors pointed out.