



Product Datasheet

August 2010

EarthWool™ High Performance Wall Batts

EarthWool™ HP Batts

Description

Knauf Insulation's EarthWool™ High Performance Batts are made from highly resilient, inorganic glass fibres bonded by ECOSE™ Technology, a revolutionary new binder based on rapidly renewable bio-based materials rather than non-renewable petroleum based chemicals.

ECOSE™ Technology reduces Knauf Insulation binder embodied energy and contains no phenol, formaldehyde, acrylics or artificial colours found in generic glasswool insulation.

Application

EarthWool™ High Performance Batts provide a cost-effective thermal and acoustical barrier for cost efficient construction. The batts' consistent quality, low dust and clean-cutting resilient fibres make fabrication easy and installation fast.

External Residential Walls – Brick Veneer

EarthWool™ High Performance Batts in conjunction with best practice acoustic detailing will reduce busy road noise while providing an exceptional thermal performance suitable for even Climate Zone 8 (BCA 2010) when used in conjunction with Knauf Anti-Glare wall wrap.

Internal Wall Applications – Framed Construction

EarthWool™ High Performance Batts have been tested confirming an outstanding noise reduction co-efficient (NRC) providing cost effective results in single stud walls, staggered stud and separated stud construction.

Specification Compliance

Thermal Conductivity

ASTM C 518 and AS/NZS 4859.1: 2002

Thermal Resistance

ASTM C 653 and AS/NZS 4859.1: 2002

Acoustic Performance

AS ISO 354 – 2006

AS ISO 11654-1997

ASTM C423-90A

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 Resistance (ASTM C 136)

- Non-combustible.

EarthWool™ HP 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

Glasswool insulation fibres have been tested in laboratory studies according to EC protocols ECB/TM27 REV. 7, 1998 and shown to be biosoluble. KNS3 fibres comply with the short term biopersistence test and fulfill the requirements of Australian and international authorities on bio-solubility. EarthWool™ products are BRANZ certified.

Features and Benefits

Proven Performance

- Excellent acoustic properties reduce sound transmission when properly installed in walls, ceiling and floor systems.
- Preferred by professional installers concerned with quality, appearance and productivity.

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

- Knauf Insulation EarthWool™ HP Batts are packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- EarthWool™ packages feature easy to follow installation instructions.
- Master bag batt 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 is available from specialist contractors, distributors, stockists and trade merchants.
- Knauf Insulation is backed with a comprehensive range of literature, training, technical support, field sales teams and web based materials to inform specifiers and customers.

Acoustic Performance

Frequency (Hz)	125	250	500	1000	2000	4000
Practical Sound Absorption Coefficient, (α_p)	0.5	1.00	1.00	1.00	1.00	1.00

NRC of the sample calculated in accordance with ASTM C423-90A is: **1.20**
RMIT Test Report - 1211/10-76/PD

Physical Description

Reference	R-Value	Thickness (mm)	Width (mm)	Length (mm)	Mass (kg)
AZ05EV	2.5	90	430	1160	0.83
AZ06E	2.5	90	580	1160	1.12

Knauf Insulation's EarthWool™ products with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-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.

Knauf Insulation Pty Ltd

Unit 3, 50 Secam Street
Mansfield QLD 4122

Customer Service (sales)

Tel: +61 7 3343 1989

Fax: +61 7 3343 1898

Email: sales.au@knaufinsulation.com

Technical Support

Email: tech.au@knaufinsulation.com