



KNAUFINSULATION
it's time to save energy

EarthWool™ Sound Control Batts

Description

Knauf Insulation's EarthWool™ Sound Control 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 traditional glasswool insulation.

Application

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

Light Commercial Applications

EarthWool™ Sound Control Batts are available in a range of thicknesses. EarthWool™ Sound Control Batts can improve Rw ratings in wood stud construction by 3 to 5 points and in metal stud construction by 8 to 10 points, depending on the complexity of the wall configuration and the thickness/density. EarthWool™ Sound Control Batts can be used for exterior and interior walls, floors, crawlspaces and a variety of ceiling applications.

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 bio-soluble. KNS3 fibres comply with the short term biopersistence test and fulfill the requirements of Australian and international authorities on biosolubility. EarthWool™ has BRANZ certification.

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.

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 Vapor 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™ Sound Control Batts

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Benefits

- Preferred by professional installers concerned with quality, appearance and productivity
- Excellent acoustical properties reduces sound transmission in the home when properly installed in walls, ceiling and floor systems.
- EarthWool™ Sound Control Batts are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- Consistent quality materials feel good, cut easily and install fast.
- Low dust for easier handling and increased productivity.
- Earthwool Sound Control Batts are packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.

The Insulation Depot Pty. Ltd.

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Your Local Earthwool Installer

Item Ref. No	Thickness (mm)	Density (kg/m ³)	Dimensions (mm)	Pieces per Pack	m ² per Pack (m ²)
Sound Control Batts - Timber Frame					
50430E 14K	50	14	430X1160	38	19
50580E 14K	50	14	580X1160	38	25.6
75430E 14K	75	14.0	430X1160	24	12
75580E 14K	75	14.0	580X1160	24	16.2

Insulation Recommendations for Internal Walls

Application	Rw+Ctr	Rw	Knauf Insulation	Wall Construction
Detached Resident Dwellings				
Internal walls to rooms not containing home theatre or sound system.	N/A	38	75mm Earthwool™ Sound Control Batts	Single timber stud frame with 10-13mm plasterboard lining each side.
Internal walls to rooms with home theatre or sound systems	N/A	50+	75mm Earthwool™ Sound Control Batts	Double stud timber frame wall with 13-16mm plasterboard lining to each face; or staggered stud timber frame wall with 16mm plasterboard lining to each face.
Selected Walls Table 2 Deemed-to-Satisfy BCA Provisions				
BCA Compliant Acoustic Wall	-	45	50mm Earthwool™ Sound Control Batts	One row of 64mm steel studs with: <ul style="list-style-type: none"> (a) One layer of 16mm fire-protective grade plasterboard fixed to one face; and (b) 50mm 14kg/m³ Knauf EarthWool™ Batts positioned between the studs; and (c) Two layers of fire-protective grade plasterboard fixed to other face, the inner layer being 16mm and the outer layer being 13mm
BCA Compliant Acoustic Wall	-	50	50mm Earthwool™ Sound Control Batts	One row of 92mm steel studs with: <ul style="list-style-type: none"> (a) 50mm 14kg/m³ Knauf EarthWool™ Batts positioned between the studs; and (b) Two layers of 13mm fire-protective grade plasterboard or one layer of 6mm fibre cement sheet and one layer of 13mm fire-protective grade plasterboard, fixed to each face.
BCA Compliant Acoustic Wall	50	50	50mm Earthwool™ Sound Control Batts	Two rows of 90x35mm timber studs or two rows of 64mm steel studs at 600mm centres with: <ul style="list-style-type: none"> (a) An air gap no less than 20mm between the rows of studs; and (b) 50mm 14kg/m³ Knauf EarthWool™ Batts positioned between the studs; and (c) Two layers of 13mm fire-protective grade plasterboard or one layer of 6mm fibre cement sheet and one layer of 13mm fire-protective grade plasterboard, fixed to outside face of studs.

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