



Battmans ThermaBlanket

EarthWool® Building Blanket

Description

Battmans' ThermaBlanket EarthWool® Building Blanket is a lightweight, flexible and resilient glasswool material intended for both thermal and acoustic applications, and is available in a range of foil facings. The Earthwool blankets are made by Knauf Insulation 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

Battmans' ThermaBlanket EarthWool® Building Blankets provide a cost-effective thermal and acoustic barrier for energy-efficient construction. Their consistent quality, low dust, and clean-cutting resilient fibres make fabrication easy and installation fast. Battmans' ThermaBlanket EarthWool® Building Blankets can be used in new and retrofit applications in residential and commercial structures, as well as in off or on-site manufactured housing. These applications include thermal and acoustical treatments to metal and roof tile applications. The range of roof insulation can be faced with standard foil laminates or they can be faced and cut to length according to your specification.

ThermaBlanket Earthwool® Building Blanket meets the requirements for BAL 12.5-40 in AS 3959 for metal roofs. It is suitable for sealing ember entry points at ridges, valleys and fascias. The available facings comply with the BCA flammability index requirement of ≤ 5 .

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 E 136)

- Non-combustible.

Flammability Index of facing (AS1530.2)

- 3 (Index rating ≤ 5 is low).

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 bio-solubility. EarthWool® is BRANZ certified.

Features and Benefits

Proven Performance

- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustic properties reduce sound transmission when properly installed in roof systems.
- Foil-faced roofing blankets provide condensation control.

Durability

- Battmans ThermaBlankets are odourless, rot proof, non-hygroscopic, do 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

- Battmans ThermaBlankets are packaged in a strong, clear poly bag that offers excellent protection from abuse, dust and moisture.
- Our packages feature easy to follow installation instructions.

Superior Service and Support

- Battmans Insulation Services is totally focused on providing first class customer service, producing high quality product and 'on time in full' deliveries.

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.

Unlaminated Blanket

Thickness (mm)	Material R-Value (m2K/W)	Dimensions (mm)	Pieces per pack	m ² per pack
55	R 1.3	1200x37000	1	44.4
75	R 1.8	1200x26000	1	31.2
100	R 2.3	1200x2200	1	26.4
130	R 3.2	1200x13500	1	16.2

All faced product can be supplied cut-to-length. Products are AS/NZS 4859.1 compliant.

Typical Application: Flat metal roof with suspended ceiling

ThermaBlanket building blanket draped over purlin support located between cladding & safety mesh incorporating Deckmate Thermal Spacers to allow blanket recovery to nominal thickness. Air space of 25mm between cladding and blanket is unventilated. Reflective foil faces downwards. Air space below foil assumed to be unventilated 300mm air space. (Flat metal roof at 0 to 12° pitch).

TOTAL R-value 55mm	=	R 2.23 (Winter)	R 4.09 (Summer)
TOTAL R-value 75mm	=	R 2.76 (Winter)	R 4.59 (Summer)
TOTAL R-value 100mm	=	R 3.28 (Winter)	R 5.09 (Summer)
TOTAL R-value 130mm	=	R 4.24 (Winter)	R 5.86 (Summer)

