

EARTHWOOL® QUILTED UNDERFLOOR BATT

August 2019



APPLICATIONS



DESCRIPTION

Earthwool® quilted underfloor batt is manufactured from durable silicone coated glasswool and is completely wrapped in a breathable plastic film, providing a wind-wash barrier. The wind-wash barrier provides protection from wind travelling through the floor. Adding to the already easy to handle and install qualities of Earthwool® insulation, the plastic film allows for the insulation to be stapled in place. Earthwool® quilted underfloor 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. Earthwool® insulation is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.

EARTHWOOL® PERFORMANCE

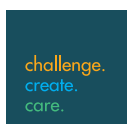
Combustibility (AS 1530.1)*	Non-combustible.
Thermal Thermal conductivity: Thermal resistance:	ASTM C 518 and AS/NZS 4859.1: 2002. ASTM C 653 and AS/NZS 4859.1: 2002.
Fire Hazard Properties (AS/NZ 1530.3)*	Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 0-1.
Water Vapour Absorption	Less than 5% by weight.
Microbial Growth	Does not support microbial growth.
Corrosion Resistance	No greater than sterile cotton.

*data applies to Earthwool® only and excludes plastic film

BENEFITS

- ✓ High thermal performance - year round comfort
- ✓ Sound absorbing
- ✓ Wind-wash barrier - protection from air movement
- ✓ Saves energy - lower energy bills
- ✓ No added formaldehyde
- ✓ Soft to handle and install
- ✓ Can be stapled in place
- ✓ Compression packed - more product per pack
- ✓ Odourless.

CERTIFICATION



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ADDITIONAL INFORMATION

Specification Guide

The underfloor insulation shall be Earthwool® quilted underfloor batt with silicone coated glasswool R*, *mm thick. CFC/HCFC free, zero ODP & GWP, 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.

Specification Compliance

AS/NZS 4859.1 - Thermal insulation materials for buildings and assists in the compliance requirements of the Australian National Construction Code 2019 Section 3.12.1.5. This product is designed for use in timber framed floors in new and existing domestic (Class 1) applications.

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.

Proven Performance

- Wind-wash barrier for improved thermal performance.
- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission.

Durability

- Earthwool® insulation is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- Silicone treated fibers to provide excellent durability.
- 15 year warranty.

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® insulation is packaged in a strong, white film that offers excellent protection from abuse, dust and moisture.
- Earthwool® insulation 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.

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SPECIFICATIONS

Product Code	R-Value (m ² K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m ²)
653089	2.0	90	470*	2700	13	16.5

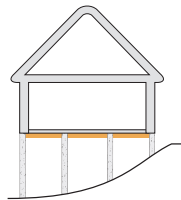
*Earthwool® is 470mm wide plus tabs for stapling

Earthwool® quilted underfloor batt comes in long 2.7m segments and is suitable for most sub-floor applications including pole houses and open sub-floors. It can be installed above “non-occupied” spaces such as the following:

Sub-floor with timber battens



Pole house

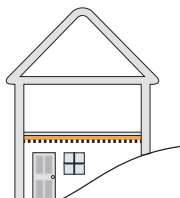


Sub-floor solid perimeter



When installed above “occupied spaces”, such as workshops, garages, and basements, a suitable lining such as plasterboard or fibre cement should be installed over the insulation. Alternatively, we recommend installing Earthwool® underfloor roll with wind-wash barrier. Product codes 546235 (500mm) and 654387 (600mm).

Workshop with lined floor joist



Garage with lined floor joist



Basement rooms with lined floor joist



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.

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