

EARTHWOOL® GLASSWOOL INSULATION: QUILTED UNDERFLOOR

November 2021



Now with enhanced moisture resistance thanks to DriTherm® technology. Earthwool® glasswool insulation is silicone treated, which provides moisture resistance for up to 50 years.

APPLICATION



DESCRIPTION

Earthwool® glasswool insulation: 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 air movement under the floor. Adding to the already easy to handle and install qualities of Earthwool® glasswool insulation, the plastic film allows for the insulation to be stapled in place.

Earthwool® glasswool insulation: 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® glasswool insulation is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.

PERFORMANCE

Thermal	AS/NZS 4859.1 (2018).
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.

*The above data excludes the plastic film.

BENEFITS

- ✓ High thermal performance - year round comfort
- ✓ DriTherm® technology - silicone treated glasswool for increased durability
- ✓ 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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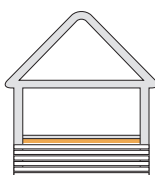
SPECIFICATIONS

Product Code	R-Value (m ² K/W)	Lambda (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
596252	1.5	0.047	70	470*	2700	19.0	15

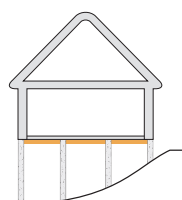
All dimensions are nominal. * glasswool is 470mm wide plus tabs for stapling.

Earthwool® glasswool insulation: 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 is designed for use above “non-occupied” spaces such as the following:

Sub-floor with timber battens



Pole house

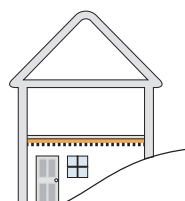


Sub-floor solid perimeter

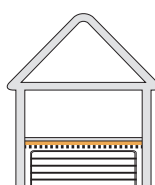


When installed above “occupied spaces”, such as workshops, garages, and basements, a suitable compliant lining such as plasterboard or fibre cement should be installed over the insulation. Alternatively, we recommend installing Earthwool® glasswool insulation: underfloor roll. Product codes 683671 (500mm) and 723803 (600mm).

Workshop with lined floor joist



Garage with lined floor joist



Basement rooms with lined floor joist



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ADDITIONAL INFORMATION (CONT.)

Specification Guide

The underfloor insulation shall be Earthwool® glasswool insulation: quilted underfloor batt with silicone coated glasswool R*, *mm thick. CFC/HCFC free 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: 2018 Materials used in the Thermal Insulation of Buildings and comply with the New Zealand Building Code requirements: B2 – Durability, E3 – External Moisture, F2 – Hazardous Building Materials, and H1 – Energy Efficiency. Earthwool® glasswool insulation: quilted underfloor batt is an acceptable solution in terms of the New Zealand Building Code. This product is designed for use in timber framed floors in new and existing domestic and commercial buildings.

Bio-solubility

The formulation used for Earthwool® glasswool 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 Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008 3rd Edition]. As a result of this assessment, Earthwool® glasswool insulation is not classified as hazardous according to the NOHSC criteria.

Features and Benefits

- 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® glasswool insulation is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- DriTherm® technology - silicone treated glasswool for increased 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® glasswool insulation is packaged in a strong, white bag that offers excellent protection from abuse, dust and moisture.
- Earthwool® glasswool 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.



Earthwool® glasswool 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® glasswool products made with ECOSE® Technology contain no added dyes or artificial colours.

Knauf Insulation Ltd

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