

EARTHWOOL® GLASSWOOL FLOORSHIELD UNDERFLOOR BATT

November 2021



APPLICATIONS



DESCRIPTION

Earthwool® glasswool FloorShield underfloor batt is manufactured from durable silicone coated glasswool and is faced with an ECOSE® glass veil, providing a wind-wash barrier. The wind-wash barrier provides protection from air movement under the floor to ensure the insulation will perform as per the stated the R-value*. Earthwool® glasswool FloorShield 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.

The super-soft and easy to handle benefits of Earthwool® have been further enhanced with TwinTech®. TwinTech® heralds another advancement insulation manufacture - the dual forming technique ensures there is a smooth finish on both sides of the insulation, which improves product handling and appearance. Earthwool® glasswool is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.

*BRANZ research has shown the impact of wind-wash on exposed sub-floor insulation can reduce the thermal performance by 25%. Source: <https://www.buildmagazine.org.nz/index.php/articles/show/wind-and-floor-insulation>



Enhanced moisture resistance with DriTherm® technology. Earthwool® insulation is silicone treated, which provides moisture resistance for 50 years.

EARTHWOOL® PERFORMANCE

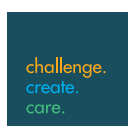
Thermal	AS/NZS 4859.1 (2018).
Combustibility (AS 1530.1)*	Non-combustible.
Fire Hazard Properties (AS/NZ 1530.3)*	Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 0-1.
Water Vapour Absorption	Less than 5% by weight.
Microbial Growth	Does not support microbial growth.
Corrosion Resistance	No greater than sterile cotton.

*data applies to Earthwool® only.

BENEFITS

- ✓ TwinTech® - smooth finish on both sides
- ✓ High thermal performance - year round comfort
- ✓ Wind-wash barrier - protection from air movement
- ✓ Sound absorbing
- ✓ Saves energy - lower energy bills
- ✓ No added formaldehyde
- ✓ Soft to handle and install
- ✓ Friction fit
- ✓ Compression packed - more product per pack
- ✓ Odourless.

CERTIFICATION



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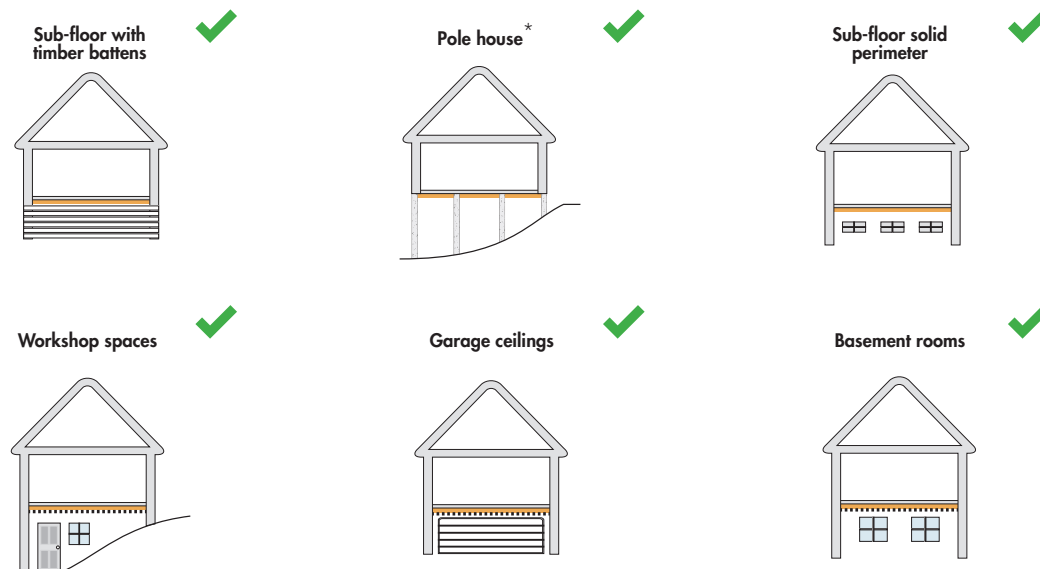
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SPECIFICATIONS

Product Code	R-Value (m ² K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
691130	2.5	0.036	90	420	1160	2.9	6

All dimensions are nominal.

Earthwool® glasswool FloorShield underfloor batt is suitable for most sub-floor applications including pole houses and open sub-floors.



*sub-floors that are subjected to high winds may require a suitable lining material.

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ADDITIONAL INFORMATION

Specification Guide

The underfloor insulation shall be Earthwool® glasswool FloorShield underfloor batt with silicone coated glasswool R*, *mm thick, BRANZ appraised to meet the provisions of the NCC. The product will be 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, AS 1530.1 Method of Fire Testing on Building Materials, AS 1530.3 Early Fire Hazard Properties. Earthwool® glasswool FloorShield underfloor batt with silicone coated glasswool will contribute to compliance with the National Construction Code (NCC) requirements.

Bio-solubility

The formulation used for Earthwool® glasswool FloorShield underfloor batt with silicone coated glasswool 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 Safe Work Australia (SWA). Earthwool® insulation is classified as a non-hazardous substance in line with the NOHSC: 1008 3rd Edition.

Proven Performance

- Wind-wash barrier for improved thermal performance.
- Earthwool® insulation preferred by professional installers concerned with quality, appearance and productivity.
- Earthwool® insulation has excellent acoustical properties reduce sound transmission.

Durability

- Earthwool® insulation is odourless, rot proof, hydrophobic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- Silicone treated glasswool 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.



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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