

EARTHWOOL® GLASSWOOL FLOORSHIELD UNDERFLOOR

January 2024



Enhanced moisture resistance thanks to DriTherm® technology. Earthwool® glasswool insulation is silicone treated, which provides moisture resistance for over 50 years.

APPLICATION



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.

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

PERFORMANCE

Combustibility (AS 1530.1)*	Non-combustible.
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.

*The above data excludes the facing.

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
- ✓ Friction fit
- ✓ Compression packed - more product per pack
- ✓ Odourless.

CERTIFICATION



Please scan the QR Code to view the complete list of certifications on our website.

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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
764622	2.6	0.035	90	420	1160	5.4	11
824550	3.0	0.035	105	420	1160	5.4	11

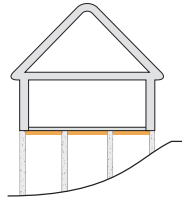
All dimensions are nominal.

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

Sub-floor with timber battens



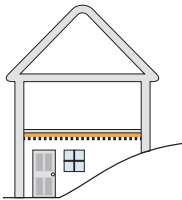
Pole house*



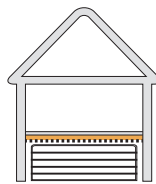
Sub-floor solid perimeter



Workshop spaces



Garage ceilings



Basement rooms



*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. The 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 Earthwool® glasswool: FloorShield underfloor batt will contribute to compliance with the New Zealand Building Code (NZBC) requirements.

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 NZ Work-Safe retirements. Earthwool® glasswool is classified as a non hazardous substance in line with [NOHSC: 1008 3rd Edition]. As a result of this assessment, Earthwool® glasswool 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® glasswool insulation is odourless, rot proof, hydrophobic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- DriTherm® technology - silicone treated glasswool for increased durability.
- Meets the New Zealand Building Code (NZBC) 15 and 50 year durability requirements.

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 film 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 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 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

PO Box 217063, Botany Junction,
Auckland, 2164, New Zealand

Customer Service: Tel: 0800 562 834

Technical Advisory Centre: tech.nz@knaufinsulation.com

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