

## EARTHWOOL® GLASSWOOL FLOORSHIELD UNDERFLOOR

February 2026

### 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.

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, plant-based binder that contains no added formaldehyde.

Knauf Insulation glasswool is silicone treated with DriTherm® Technology, which provides improved moisture resistance.



### Performance

|                                                                    |                                                                                   |                                     |                  |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|------------------|
| <b>Thermal performance</b>                                         | AS/NZS 4859.1 (2018)                                                              |                                     |                  |
| <b>Fire Hazard Properties (AS/NZ 1530.3)</b>                       | Ignitability: 0<br>Spread of Flame: 0<br>Heat Evolved: 0<br>Smoke Developed: 2-3  |                                     |                  |
| <b>MATERIAL PROPERTY</b>                                           | <b>RESULT</b>                                                                     | <b>REQUIREMENT PER ASTM C665-17</b> | <b>PASS/FAIL</b> |
| <b>Water Vapour Sorption (Mass %) (ASTM C1104)*</b>                | 4                                                                                 | <5                                  | Pass             |
| <b>Corrosiveness - Aluminium (rating scale 15-40) (ASTM C665)*</b> | 25                                                                                | <21                                 | Pass             |
| <b>Corrosiveness - Copper (rating scale 15-40) (ASTM C665)*</b>    | 30                                                                                | <21                                 | Pass             |
| <b>Corrosiveness - Steel (ASTM C1617)*</b>                         | 1 ppm                                                                             | <5 ppm                              | Pass             |
| <b>Fungi Resistance (ASTM C1338)*</b>                              | No growth                                                                         | Growth < Comparative                | Pass             |
| <b>Water Vapour Absorption</b>                                     | Less than 5% by weight when tested for 96 hours at 120°F (49°C) and 95% humidity. |                                     |                  |
| <b>Microbial Growth</b>                                            | Does not support microbial growth                                                 |                                     |                  |

\*Test samples were 8kg/m<sup>3</sup> and 32kg/m<sup>3</sup> unfaced Knauf Insulation glasswool, with ECOSE binder.

### Certification



**KNAUF INSULATION**



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

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### Benefits

- ✓ DriTherm® Technology - silicone treated glasswool for increased durability
- ✓ 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

### Specifications

| Product Code | R-Value (m²K/W) | Thermal Conductivity (W/mK) | Thickness (mm) | Width (mm) | Length (mm) | Area per pack (m²) | 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

#### 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.

#### Corrosion Testing

Corrosion testing evaluates whether a material's chemical composition could cause corrosion. Knauf Insulation's glasswool products have been independently tested and demonstrate that they are non-corrosive ensuring reliable performance.



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, plant-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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