

## EARTHWOOL® FLOORSHIELD UNDERFLOOR BATT

March 2020



### APPLICATIONS



### DESCRIPTION

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

### EARTHWOOL® PERFORMANCE

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

\*data applies to Earthwool® only

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

### CERTIFICATION



challenge.  
create.  
care.

## EARTHWOOL® FLOORSHIELD UNDERFLOOR BATT

March 2020

### ADDITIONAL INFORMATION

#### Specification Guide

The underfloor insulation shall be Earthwool® FloorShield 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: 2002 Materials used in the Thermal Insulation of Buildings Earthwool® FloorShield underfloor batt will contribute to compliance with the Building Code of Australia (BCA) requirements.

#### 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, 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.

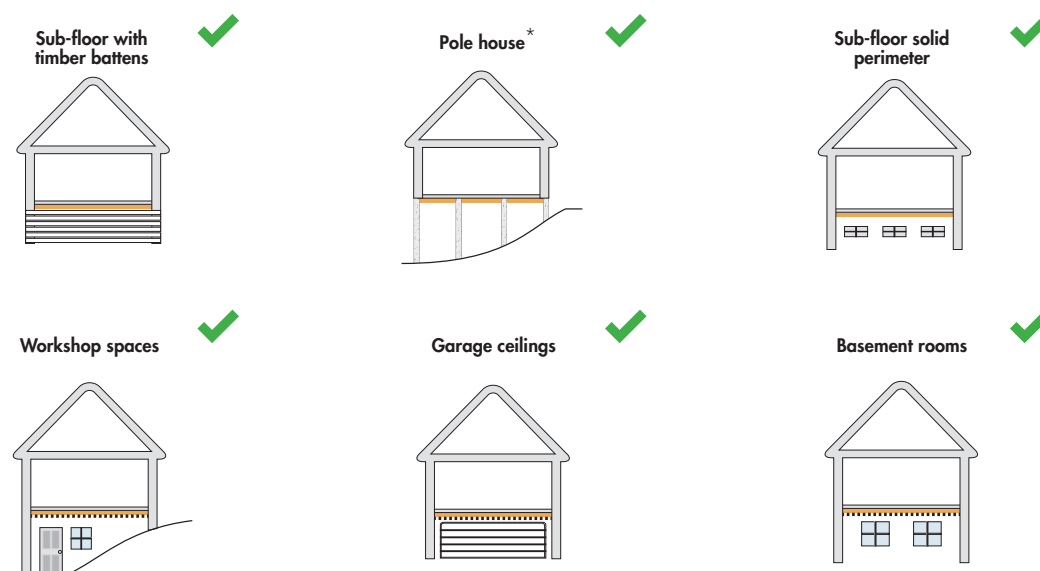
## EARTHWOOL® FLOORSHIELD UNDERFLOOR BATT

March 2020

### SPECIFICATIONS

| Product Code | R-Value (m²K/W) | Thickness (mm) | Width (mm) | Length (mm) | Pieces per pack | Area per pack (m²) |
|--------------|-----------------|----------------|------------|-------------|-----------------|--------------------|
| 651498       | 2.5             | 90             | 420        | 1160        | 6               | 2.92               |

Earthwool® 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



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.

### Knauf Insulation Ltd

23 Corporate Drive,  
Cannon Hill, Queensland, 4170, Australia

Customer Service: Tel: +61 7 3393 7300  
Fax: +61 7 3902 0613

Technical Advisory Centre: tech.au@knaufinsulation.com

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Extreme caution was observed when putting together and processing the information, texts and illustrations in this document. Nevertheless, errors cannot quite be ruled out. The publisher and editors cannot assume legal responsibility or any liability whatever for incorrect information and the consequences thereof. The publisher and editors will be grateful for improvement suggestions and details of possible errors pointed out.