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**

<table>
<thead>
<tr>
<th>Combustibility (AS 1530.1)*</th>
<th>Non-combustible.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thermal</strong></td>
<td></td>
</tr>
<tr>
<td>Thermal conductivity:</td>
<td></td>
</tr>
<tr>
<td>Thermal resistance:</td>
<td></td>
</tr>
<tr>
<td><strong>Fire Hazard Properties (AS/NZ 1530.3)</strong>*</td>
<td></td>
</tr>
<tr>
<td>Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 0-1.</td>
<td></td>
</tr>
<tr>
<td><strong>Water Vapour Absorption</strong></td>
<td>Less than 5% by weight.</td>
</tr>
<tr>
<td><strong>Microbial Growth</strong></td>
<td>Does not support microbial growth.</td>
</tr>
<tr>
<td><strong>Corrosion Resistance</strong></td>
<td>No greater than sterile cotton.</td>
</tr>
</tbody>
</table>

*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**
Additional Information

Specification Guide
The underfloor insulation shall be Earthwool® FloorShield underfloor batt with silicone coated glasswool R*, *mm thick. CFC/HFC 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 resellers 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, biobased 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.

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

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