

## EARTHWOOL® GLASSWOOL: QUILTED UNDERFLOOR SEGMENTS

July 2017



### APPLICATIONS



### DESCRIPTION

Earthwool glasswool: Quilted underfloor segments are manufactured from durable silicone coated glasswool and are completely wrapped in a plastic film, providing a wind wash barrier and a product that is easy to install. Quilted underfloor segments provide a cost-effective thermal and acoustic barrier for underfloor applications. The product is ideally suited to timber framed construction and a wide range of joist spacing's up to 515mm centres. The high quality consistent glasswool makes it easy to cut and fast to install.

## EARTHWOOL GLASSWOOL PERFORMANCE

### Thermal

Thermal conductivity:  
Thermal resistance:

ASTM C 518 and AS/NZS 4859.1: 2002  
ASTM C 653 and AS/NZS 4859.1: 2002

### Fire Hazard Properties (AS/NZ 1530.3)

Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 0-1

### Water Vapour Absorption (ASTM C 1104)

Water vapour resistivity:

Less than 5% by weight

### Microbial Growth (ASTM C 1338)

Does not support microbial growth

### Corrosion Resistance (ASTM C 665)

No greater than sterile cotton

### Combustibility (AS 1530.1)

Non-combustible

## BENEFITS

- ✓ Proven performance
  - Wind wash barrier for improved thermal performance
  - Excellent acoustic properties reduce sound transmission
- ✓ Durability
  - Silicone treated fibers to provide excellent durability
- ✓ Superior Handling
  - Consistent quality materials feel good, cut easily and are easier to handle
- ✓ Convenient Packaging
  - Easy to follow installation instructions
  - More square metres per bag

## CERTIFICATION



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### ADDITIONAL INFORMATION

#### Specification Guide

The underfloor insulation shall be Earthwool glasswool: Quilted Underfloor segments 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 and comply with the New Zealand Building Code requirements: B2 – Durability, E3 – External Moisture, F2 – Hazardous Building Materials, and H1 – Energy Efficiency. The Earthwool glasswool: Underfloor range is an acceptable solution in terms of the New Zealand Building Code. This product is designed for use in timber framed floors in new and existing domestic and commercial buildings.

#### 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 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 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, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- Silicone treated fibers to provide excellent 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 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.

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### SPECIFICATIONS

Product Code	R-Value (m <sup>2</sup> K/W)	Thickness (mm)	Length (mm)	Width (mm)	Pieces per pack	Area per pack (m <sup>2</sup> )
596252	1.5	70	2700	470	15	19.04

All dimensions are nominal



Knauf Insulation glasswool products made with ECOSE Technology® benefit from a no added formaldehyde binder, which is up to 70% less energy intensive than traditional binders and is made from rapidly renewable bio-based materials instead of petroleum-based chemicals. The technology has been developed for Knauf Insulation's glass wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE Technology® contain no dye or artificial colours.

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