

## KNAUF INSULATION: CEILING / SKILLION ROOF BATT

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### Applications



### Description

The Knauf Insulation glasswool insulation: ceiling and skillion batt range includes a selection of R-values to provide builders, designers, installers and DIYers the opportunity to choose the best thermal performance for their project. Knauf Insulation glasswool insulation: ceiling and skillion 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.

The super-soft and easy to handle benefits of Knauf Insulation glasswool have been further enhanced with TwinTech®. TwinTech® heralds another advancement in insulation manufacture - the dual forming technique ensures there is a smooth finish on both sides of the insulation, which improves product handling and appearance. Knauf Insulation glasswool insulation: ceiling and skillion batt is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, plant-based binder that contains no added formaldehyde.



Enhanced moisture resistance with DriTherm® Technology. Knauf Insulation glasswool insulation is silicone treated, which provides moisture resistance for increased durability.

### Performance

<b>Thermal performance</b>	AS/NZS 4859.1 (2018)	
<b>Combustibility (AS 1530.3)</b>	Non-combustible	
<b>Fire Hazard Properties (AS/NZ 1530.3)</b>	Ignitability: 0 Spread of Flame: 0 Heat Evolved: 0 Smoke Developed: 2-3	
<b>MATERIAL PROPERTY</b>	<b>RESULT REQUIREMENT PER ASTM C665-17</b>	<b>PASS/FAIL</b>
<b>Water Vapour Sorption (Mass %) (ASTM C1104)*</b>	<5	Pass
<b>Corrosiveness - Aluminium (rating scale 15-40) (ASTM C665)*</b>	<21	Pass
<b>Corrosiveness - Copper (rating scale 15-40) (ASTM C665)*</b>	<21	Pass
<b>Corrosiveness - Steel (ASTM C1617)*</b>	<5 ppm	Pass
<b>Fungi Resistance (ASTM C1338)*</b>	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



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

### Benefits

- ✓ DriTherm® Technology - silicone treated glasswool for increased durability
- ✓ TwinTech® - smooth finish on both sides
- ✓ High thermal performance - year round comfort
- ✓ Sound absorbing
- ✓ Non-combustible
- ✓ Saves energy - lower energy bills
- ✓ No added formaldehyde
- ✓ Soft to handle and install
- ✓ Compression packed - more product per pack
- ✓ Odourless

### Specifications

#### CEILING SEGMENTS

Product Code	R-Value (m <sup>2</sup> K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
860144	3.6	0.047	170	430	1160	9.0	18
860138	4.2	0.050	210	430	1160	7.0	14
860132	5.2	0.044	230	430	1160	5.5	11
860128	7	0.047	330	460	1160	4.3	8

All dimensions are nominal.

#### SKILLION ROOF / PERIMETER BATT

Product Code	R-Value (m <sup>2</sup> K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
860164	1.3	0.035	45	450	1160	12.5	24
860146	3.4	0.032	110	580	1160	4.7	7
860134	5	0.033	165	430	1160	3.0	6
860130	6	0.036	215	430	1160	3.0	6
860126	7.4	0.036	265	430	1160	3.0	6

All dimensions are nominal.

### ADDITIONAL INFORMATION

#### Specification Guide

The ceiling insulation shall be Knauf Insulation: ceiling and skillion batt\* R\*, \*mm thick, BRANZ appraised to meet the provisions of the NZBC. The product will be non-combustible, Red List Free as labelled by Declare, Global GreenTag GreenRate Level A certified, glasswool insulation with high post-consumer recycled glass content and with ECOSE® Technology. It will be manufactured under Quality Assurance Standards ISO 9001:2015 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 and comply with the New Zealand Building Code requirements: B2 – Durability, E3 – External Moisture, F2 – Hazardous Building Materials, and H1 – Energy Efficiency, as appraised by BRANZ. The Knauf Insulation glasswool insulation: ceiling batt range is an acceptable solution in terms of the New Zealand Building Code. This product is designed for use in timber and metal frame applications in new and existing domestic and commercial buildings.

#### Bio-solubility

The formulation used for Knauf Insulation 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 requirements. Knauf Insulation glasswool is classified as a non-hazardous substance in line with the NOHSC: 1008 3rd Edition.

#### Environmental

Knauf Insulation glasswool insulation: ceiling and skillion batt represents no known threat to the environment and comes with GreenTag Level A certification, Declare label and a certified Environmental Product Declaration. Knauf Insulation glasswool has low VOC and benefits from ECOSE® Technology.

#### Proven Performance

- Knauf Insulation glasswool insulation is preferred by professional installers concerned with quality, appearance and productivity.
- Knauf Insulation glasswool insulation has excellent acoustical properties reduce sound transmission in the home when properly installed in walls, ceiling and floor systems.

#### Installation Guidance

- When installing ceiling and skillion roof insulation it is important to install insulation in accordance with NZS 4246:2016 (Installing bulk thermal insulation) and Knauf Insulation's installation instructions.

- In skillion roofs a 25mm gap between the roofing underlay and the insulation must be maintained. This can be achieved by mechanically restricting the insulation or selecting a product with a suitable nominal thickness. Where the product is not restricted it is important to ensure that the insulation's nominal thickness is maintained.

#### Durability

- Knauf Insulation glasswool insulation is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- DriTherm® Technology – silicone treated 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

- Knauf Insulation glasswool insulation is packaged in a strong, white poly bags (batts) and film (rolls) that offers excellent protection from abuse, dust and moisture.
- Knauf Insulation 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 products and 'in full on time' deliveries.
- Knauf Insulation recognises the need to establish, develop and support 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.



Knauf Insulation 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.

Knauf Insulation glasswool products made with ECOSE® Technology contain no added dyes or artificial colours.

#### Knauf Insulation Ltd

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