

## Thermal Ceiling and Skillion Roof

### Description

ecoinsulation® Thermal Ceiling and Skillion Roof insulation is designed for use in cold roof applications where pitch roofs are insulated at ceiling level.

The ecoinsulation Thermal Ceiling and Skillion Roof range includes a selection of R-values to provide builders, designers, and installers the opportunity to choose the best thermal performance for their project.

ecoinsulation Thermal Ceiling and Skillion Roof insulation is made using:

- Up to 80% recycled glass.
- ECOSE® Technology - binder with no added formaldehyde.
- TwinTech® - dual forming technique for a smooth finish on both sides.
- DriTherm® Technology - silicone treated for improved moisture resistance.



### Product Range

Product code	R-Value (m <sup>2</sup> K/W)	Lambda (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
<b>Standard Ceiling</b>							
683700	3.6	0.044	160	430	1160	10.0	20
<b>Ceiling High Performance</b>							
683702	4.2	0.043	180	430	1160	8.5	17
779548	7.0	0.047	330	460	1200	4.4	8
<b>Skillion Roof</b>							
874222	1.3	0.035	45	570	11500	13.1	2
872716	5.0	0.033	165	570	1160	3.3	5
872841	6.0	0.036	215	570	1160	4.0	6
872718	7.4	0.036	265	570	1160	3.3	5

All dimensions are nominal.

### Technical Information

<b>Thermal performance</b>	AS/NZS4859.1 (2018)		
<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</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.

# Thermal Ceiling and Skillion Roof

## 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.

**eco**insulation® glasswool 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 **eco**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. **eco**insulation glasswool is classified as a non-hazardous substance in line with the NOHSC: 1008 3rd Edition.

## Environmental

**eco**insulation glasswool represents no known threat to the environment and comes with GreenTag Level A certification, and Declare Red List Free label. **eco**insulation glasswool has low VOC and benefits from ECOSE® Technology.

## Features and Benefits

Proven Performance

- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission in the home when properly installed in walls, ceiling and floor systems.

## Durability

- **eco**insulation glasswool 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.

## 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.

## Superior Handling

- Highly resilient insulation recovers quickly to full thickness for a snug fit and superior finished aesthetics.
- Consistent quality materials that feel good, cut easily and can be installed fast.
- Low dust for easier handling and increased productivity.

## Convenient Packaging, Easier Handling

- **eco**insulation glasswool is packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- **eco**insulation glasswool 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

- We are focused on providing first class customer service, producing high quality products and 'in full on time' deliveries.
- We are 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.



**ecoinsulation**  
energy and installation

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