

KNAUF INSULATION ROOF BLANKET

September 2025

Applications



Description

Knauf Insulation Roof blanket (unfaced) provides thermal and acoustic insulation for commercial roofs. Condensation control can be achieved when the product is faced with foil of the appropriate duty classification. The Knauf Insulation Roof blanket (unfaced) range includes a selection of R-values to provide builders, designers and installers the opportunity to choose the best thermal performance for their project. Knauf Insulation Roof blanket (unfaced) 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 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 is made using up to 80% recycled glass and with ECOSE® Technology, a plant-based binder that contains no added formaldehyde.



Performance

Thermal performance	AS/NZS 4859.1 (2018)	
Fire Hazard Properties (AS/NZ 1530.3)	Ignitability: 0 Spread of Flame: 0 Heat Evolved: 0 Smoke Developed: 2-3	
Material Property	Requirement per ASTM C665-17	Pass/Fail
Water Vapour Sorption (Mass %) (ASTM C1104)*	<5	Pass
Corrosiveness - Aluminium (rating scale 15-40) (ASTM C665)*	<21	Pass
Corrosiveness - Copper (rating scale 15-40) (ASTM C665)*	<21	Pass
Corrosiveness - Steel (ASTM 1617)*	<5 ppm	Pass
Fungi Resistance (ASTM C1338)*	Growth < Comparative	Pass
Water Vapour Absorption	Less than 5% by weight when tested for 96 hours at 120°F (49°C) and 95% humidity.	
Microbial Growth	Does not support microbial growth	
Combustibility (AS 1530.1)	Non-combustible	

*Test samples were 8kg/m³ and 32kg/m³ unfaced Knauf Insulation glasswool, with ECOSE binder.

Benefits

- ✓ 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

Certifications



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

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Specifications

Product Code	R-Value (m ² K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
683640	1.3	0.042	55	1200	30000	36.0	1
683659	1.8	0.042	75	1200	23000	27.6	1
683660	2.3	0.043	100	1200	17500	21.0	1
683661	2.5	0.042	105	1200	16500	19.8	1
683662	3.0	0.040	120	1200	14500	17.4	1
683643	3.2	0.041	130	1200	13500	16.2	1
723800	3.6	0.041	145	1200	10000	12.0	1
683720	3.7	0.035	130	1200	6500	7.8	1
844880	4.2	0.041	175	1200	5700	6.8	1

*All dimensions are nominal.

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Additional Information

Specification Compliance

AS 1530.1 Method of Fire Testing on Building Materials. AS 1530.3 Early fire Hazard Properties. Knauf Insulation Roof blanket (unfaced) will contribute to compliance with the National Construction Code (NCC) requirements.

Specification Guide

The insulation shall be Knauf Insulation Roof blanket (unfaced), R* or *kg/m³, *mm thick, BRANZ appraised to meet the provisions of the NCC. The product will be non-combustible, Red List Free as labelled by Declare, Global GreenTag^{Cert™} 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 9001:2008 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.

Bio-solubility

The formulation used for Knauf Insulation Roof blanket (unfaced) 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 Safe Work Australia (SWA). Knauf Insulation glasswool is classified as a non-hazardous substance in line with the NOHSC: 1008 3rd Edition.

Environmental

Knauf Insulation Roof blanket (unfaced) represents no known threat to the environment and comes with Global GreenTag^{Cert™} GreenRate™ 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 is preferred by professional installers concerned with quality, appearance and productivity.
- Knauf Insulation glasswool has excellent acoustical properties reduce sound transmission when properly installed in roof systems.
- Foil-faced roofing rolls provide condensation control.



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

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Durability

- Knauf Insulation Roof blanket is odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

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 Roof blanket is packaged in a strong, white poly film that offers excellent protection from abuse, dust and moisture.

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 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

Knauf Insulation glasswool is tested to evaluate whether a material's chemical composition could cause corrosion. Knauf Insulation's glasswool products, with a consistent composition across densities, have been independently tested and demonstrated that they are non-corrosive in both low-density and high-density variants, ensuring long-term compatibility and reliable performance.