

KNAUF INSULATION METAL ROOFING ROLL (UNFACED)

February 2024



APPLICATION



Knauf Insulation Metal Roofing Roll (Unfaced) with ECOSE® Technology is a specialist under-metal roof insulation designed for use in commercial buildings. It is made with super-soft glasswool insulation which 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.

DESCRIPTION

The super-soft and easy to handle benefits of Knauf Insulation Metal Roofing Roll (Unfaced) 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. It is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.



Knauf Insulation GMW Unfaced Performance

Thermal

MS 1020:2022

Fire Hazard Properties (ASTM C665-17)

Spread of Flame: 0, Smoke Developed: 0

MATERIAL PROPERTY

RESULT	REQUIREMENT PER ASTM C665-17	PASS / FAIL
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Water Vapor Sorption (Mass %)

3	≤5	Pass
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Corrosiveness - Aluminium (rating scale 15-40)

40	>21	Pass
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Corrosiveness - Copper (rating scale 15-40)

40	>21	Pass
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Corrosiveness - Steel

≤5 ppm	≤5 ppm	Pass
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Fungi Resistance

No growth	Growth ≤ Comparative	Pass
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* Applies to Knauf Insulation glasswool blanket only.

BENEFITS

- ✓ TwinTech® - smooth finish on both sides
- ✓ DriTherm® Technology, silicone treated, excellence water resistance
- ✓ High thermal performance - year round comfort
- ✓ Saves energy - lower energy bills
- ✓ Non-combustible
- ✓ Sound absorbing
- ✓ No added formaldehyde or phenol
- ✓ Odourless
- ✓ Naturally brown - no artificial colours added
- ✓ Superior Handling
 - Consistent quality materials, cut easily and installs fast.
 - Highly resilient insulation recovers quickly to full thickness.
- ✓ Compression packed - more product per pack, less storage needed, reduce carbon footprint

CERTIFICATION



For more information regarding our certifications please visit www.knaufinsulation.sg/certification



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

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SPECIFICATIONS

Model(s): Knauf Insulation GMW Unfaced

Product Code	R-Value (m ² K/W)	Thermal Conductivity (W/mK)	Density (kg/m ³)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
812464	1.37	0.0364	16	50	1200	25,000	30.0	1

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ADDITIONAL INFORMATION

Specification Guide

The insulation shall be Knauf Insulation Metal Roofing Roll (Unfaced) * _____ kg/m³, * _____ mm thick, MS 1020:2022 compliant product. The product will be non-combustible, Red List Free as labelled by Declare, Global GreenTag Level A certified, contain no ozone-depleting substances or greenhouse gases, 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 Sdn. Bhd. and shall be installed in accordance with the instructions issued by them.

*architect to insert details of products used.

Fire Safety

Tested in accordance with B.S. 476: Part 6 Fire propagation, B.S. 476: Part 7 Surface spread of flame and B.S. 476: Part 4 Non-combustibility.

Bio-solubility

The formulation used for Knauf Insulation glasswool has been independently assessed and certified by EUCEB to demonstrate bio-solubility. Knauf Insulation glasswool is free of hazardous ingredients and certified as Red List Free. The Living Building Challenge (LBC) Red List represents the "worst in class" materials, chemicals, and elements known to pose risks to human health. To earn the Red List Free designation, a product must fully disclose its ingredients, ensuring that none of them contain Red List chemicals. Products bearing the Red List Free label demonstrate adherence to the LBC's objectives of promoting ingredient transparency and the removal of Red List chemicals throughout the industry.

Environmental

Knauf Insulation Metal Roofing Roll (Unfaced) represents no known threat to the environment and comes with GreenTag Level A certification, Declare label and a certified Environmental Product Declaration. Knauf Insulation Metal Roofing Roll (Unfaced) has low VOC and benefits from ECOSE® Technology.

Proven Performance

- Knauf Insulation Metal Roofing Roll (Unfaced) is preferred by professional installers concerned with quality, appearance and productivity.
- Knauf Insulation Metal Roofing Roll (Unfaced) has excellent acoustical properties reduce sound transmission in the building when properly installed.

Durability

- Knauf Insulation Metal Roofing Roll (Unfaced) is odourless, rot proof, non-hygroscopic, does 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 smooth, easy to cut and install.
- Low dust for easier handling and increased productivity.

Convenient Packaging, Easier Handling

- Knauf Insulation Metal Roofing Roll (Unfaced) is packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Knauf Insulation Metal Roofing Roll (Unfaced) 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.



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, bio-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 Sdn Bhd - Company registration no: 201401006359 (1082442-W)

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