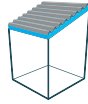


## KNAUF INSULATION METAL ROOFING ROLL (WHITE FACING)

July 2024



### Application



Knauf Insulation Metal Roofing Rolls are used for the thermal and acoustic insulation of roofs in profiled metal clad buildings. Profiled metal roof systems typically consist of a low profile metal inner liner sheet, separated from an outer, higher profile, metal weather sheet. The cavity between them is filled with a layer of non-combustible thermal insulation to provide the specified level of thermal and acoustic performance.

Built-up metal roofing systems are typically assembled on site with the design and components used forming part of a proprietary system. Knauf Insulation Metal Roofing Rolls are manufactured at 1200mm wide to suit commonly used rail and bracket systems designed for use in twin skin profiled metal cladding systems and standing seam roofs.

The white facing enhances visibility by reflecting a significant amount of visible light, making it an ideal product for environments where optimal levels of internal lighting are required.



### Description

The super-soft and easy to handle benefits of Knauf Insulation Metal Roofing with White Facing 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 FACED PERFORMANCE

Thermal (ASTM C518-21)	MS 1020:2022		
Fire Hazard Properties (ASTM E84)	Spread of Flame: 0, Smoke Developed: 0		
<b>MATERIAL PROPERTY</b>	<b>RESULT</b>	<b>REQUIREMENT PER ASTM C665-17</b>	<b>PASS / FAIL</b>
Water Vapor Sorption (Mass %) (ASTM C1104)	3	≤5	Pass
Corrosiveness - Aluminium (rating scale 15-40) (ASTM C665)	40	>21	Pass
Corrosiveness - Copper (rating scale 15-40) (ASTM C665)	40	>21	Pass
Corrosiveness - Steel (ASTM C1617)	≤5 ppm	≤5 ppm	Pass
Fungi Resistance (ASTM C1338)	No growth	Growth ≤ Comparative	Pass

\* Applies to Knauf Insulation glasswool blanket only.

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### 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
- ✓ An engineered solution with a special white facing, laminated during manufacture, ensures UV resistance to prevent color change over time. This facing achieves a Class 1 Vapor Barrier classification, providing the highest level of moisture protection, while also acting as an effective water barrier. Its pristine white color enhances visibility by reflecting a significant amount of visible light, facilitating optimal lighting system design, and making it an ideal choice for metal roof applications.

### CERTIFICATION



All glasswool products manufactured by Knauf Insulation are made of non-classified fibres (fibres that are less bio-persistent than every day dust) and are certified by EUCEB. EUCEB, European Certification Board of Mineral Wool Products - www.euceb.org, is a voluntary initiative by the mineral wool industry. It is an independent certification authority that guarantees that products are made of fibres, which comply with the exoneration criteria for carcinogenicity (Note Q) of the Regulation (EC) 1272/2008. To help user's identify the safety of our glasswool fibres the EUCEB logo is displayed on our product packaging and/or labels.



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

For more information regarding our certifications please visit [www.knaufinsulation.sg/certification](http://www.knaufinsulation.sg/certification)

### SPECIFICATIONS

#### MODEL(S): KNAUF INSULATION GMW FACED

Product Code	Density (kg/m <sup>3</sup> )	Thickness (mm)	Thermal Conductivity* (W/mK)	R-Value (m <sup>2</sup> K/W)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
826681	16	50	0.0354	1.41	1,200	20,000	24.0	1

\* Thermal conductivity 20°C λ Value (W/mK)

## KNAUF INSULATION METAL ROOFING ROLL (WHITE FACING)

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### ADDITIONAL INFORMATION

#### Specification Guide

The insulation shall be Knauf Insulation Metal Roofing Roll (White Facing) \* \_\_\_\_\_ kg/m<sup>3</sup>, \* \_\_\_\_\_ mm thick, MS 1020:2022 compliant product. The product will be non-combustible, 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.

#### Bio-solubility

The formulation used for Knauf Insulation glasswool has been independently assessed and certified by EUCEB to demonstrate bio-solubility. All products manufactured by Knauf Insulation are made of non-classified fibres (fibres that are less bio-persistent than every day dust) and are certified by EUCEB. EUCEB is a voluntary initiative which provides independent certification that guarantees that products are made of fibres which comply with the exoneration criteria for carcinogenicity (Note Q) of the Regulation (EC) 1272/2008. To help user's identify the safety of our Glasswool fibres the EUCEB logo is displayed on our product packaging and/ or labels.

#### Environmental

Knauf Insulation Metal Roofing Roll (White Facing) represents no known threat to the environment and benefits from ECOSE® Technology.

#### Proven Performance

Knauf Insulation Metal Roofing Roll (White Facing) has excellent acoustical properties reduce sound transmission in the building when properly installed.

#### Durability

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