

KNAUF INSULATION PARTITION FOLDED BATT / BATT / ROLL

January 2026

Application



Knauf Insulation Partition Folded Batt / Batt / Roll with ECOSE® Technology will absorb the transfer of unwanted sound through a building element to the other. In addition to sound absorption, it will improve the thermal comfort and energy efficiency of the building all year round.

Description

The Knauf Insulation Partition Folded Batt / Batt / Roll range includes a selection of densities and R-values to provide builders, designers and installers the opportunity to choose the best acoustic and thermal performance for their project. The range is available in folded batts up to 2700mm in length, standard batts up to 1200mm in length, and rolls. Folded batts make installation easier, faster, and more efficient, as they fit the most common framing cavity with no extra measurements required.

The super-soft and easy to handle benefits of Knauf Insulation Partition Folded Batt / Batt / Roll 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 Partition Folded Batt / Batt / Roll 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 is silicone treated, which provides moisture resistance for increased durability.



Knauf Insulation GMW Unfaced Performance

Thermal (ASTM C518-21)	MS 1020:2022							
Fire Hazard Properties (ASTM E84)*	Spread of Flame: 0, Smoke Developed: 0-5							
MATERIAL PROPERTY	RESULT	REQUIREMENT PER ASTM C665-17				PASS / FAIL		
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		
Non-combustibility (BS 476)	Part 4						Pass	
Fire propagation (BS 476)	Part 6						Pass	
Surface spread of flame (BS 476)	Part 7						Pass	
Short-term water absorption by partial immersion, average (ISO 29767:2019)	16 kg/m³			32 kg/m³				
	0.20 kg/m²		Pass	0.15 kg/m²		Pass		
Noise Reduction Coefficient (NRC)	Frequency (Hz)						NRC	
	125	250	500	1000	2000	4000		
	for 16kg/m³ density (50mm thickness)	0.24	0.65	0.92	0.94	0.96	0.97	0.85
	for 20kg/m³ density (50mm thickness)	0.24	0.66	0.94	0.97	0.98	0.97	0.90
	for 24kg/m³ density (50mm thickness)	0.24	0.67	0.97	1.00	0.99	0.97	0.90
for 32kg/m³ density (50mm thickness)	0.25	0.71	1.03	1.04	1.00	0.97	0.95	

*product testing based on product density of 8kg/m³

Certifications



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

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Benefits

- ✓ High level of sound reduction
 - Effectively minimizes noise from rain and other unwanted sounds
- ✓ High thermal performance
 - Equivalent to or better than rock mineral wool with half the weight, lowering embodied carbon, environmental impact, and costs
- ✓ Material Health
 - No added formaldehyde or phenol
 - Red List Free certified, free from harmful chemicals
- ✓ TwinTech® - smooth finish on both sides
- ✓ DriTherm® Technology, silicone treated
 - Water ingress resistance
 - Humidity and water vapour protection
- ✓ Saves energy - lower energy bills
- ✓ Non-combustible
- ✓ 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

Specifications

Knauf Insulation GMW Unfaced - Folded Batt ①

Product Code	Density (kg/m ³)	Thickness (mm)	Thermal Conductivity*+ (W/mK)	R-Value+ (m ² K/W)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
879366	16	50	0.0366	1.36	610	2,300	16.8	12
864388	16	50	0.0366	1.36	610	2,700	19.8	12

① Folded batt for quick and easy installation

+ In accordance with Clause 4.2.1 (b) of Malaysian standard MS1020 (Thermal insulation products for buildings - factory made mineral wool products), thermal resistance and thermal conductivity values shall be expressed with three significant figures.

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

Knauf Insulation GMW Unfaced - Batt

Product Code	Density (kg/m ³)	Thickness (mm)	Thermal Conductivity*+ (W/mK)	R-Value+ (m ² K/W)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
864384	16	50	0.0366	1.36	610	1,200	17.6	24
864382	24	50	0.0339	1.47	610	1,200	12.4	17
864300	32	50	0.0326	1.53	610	1,200	10.3	14

+ In accordance with Clause 4.2.1 (b) of Malaysian standard MS1020 (Thermal insulation products for buildings - factory made mineral wool products), thermal resistance and thermal conductivity values shall be expressed with three significant figures.

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

Knauf Insulation GMW Unfaced - Roll

Product Code	Density (kg/m ³)	Thickness (mm)	Thermal Conductivity*+ (W/mK)	R-Value+ (m ² K/W)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
853942	16	50	0.0366	1.36	600	15,000	18.0	2

+ In accordance with Clause 4.2.1 (b) of Malaysian standard MS1020 (Thermal insulation products for buildings - factory made mineral wool products), thermal resistance and thermal conductivity values shall be expressed with three significant figures.

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

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Additional Information

Specification Guide

The insulation shall be Knauf Insulation Partition Folded Batt / Batt / Roll * _____ kg/m³, * _____ mm thick, MS 1020:2022 compliant product. The product will be non-combustible, Red List Free as labelled by Declare, Global GreenTag GreenRate 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, ISO14001, ISO45001 and ISO50001 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 BOMBA Class '0'; B.S. 476: Part 4 Non-combustibility, B.S. 476: Part 6 Fire propagation, and 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.

Material Health

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 Partition Folded Batt / Batt / Roll represents no



Earthwool® 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. Earthwool® 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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known threat to the environment and comes with GreenTag GreenRate Level A certification, Declare label and a certified Environmental Product Declaration. Knauf Insulation Partition Folded Batt / Batt / Roll has low VOCs and benefits from ECOSE® Technology. Eurofins Indoor Air Comfort (Gold) certification provides assurance that a product fulfills low product emissions requirements. Gold level certified products are those with the **best-in-class** low emissions, and therefore good for indoor air quality.

Proven Performance

- Knauf Insulation Partition Folded Batt / Batt / Roll is preferred by professional installers concerned with quality, appearance and productivity.
- Knauf Insulation Partition Folded Batt / Batt / Roll has excellent acoustical properties reduce sound transmission in the building when properly installed.

Durability

- Knauf Insulation Partition Folded Batt / Batt / Roll 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 Partition Folded Batt / Batt / Roll is packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Knauf Insulation Partition Folded Batt / Batt / Roll 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.