



## **HIGH PERFORMANCE, NON-COMBUSTIBLE ACOUSTIC INSULATION**



REDUCES  
ENERGY BILLS



MADE WITH  
RECYCLED GLASS



LOW  
CARBON



NON  
COMBUSTIBLE



NO HARMFUL  
INGREDIENTS



THERMALLY  
EFFICIENT



ACOUSTIC  
PERFORMANCE



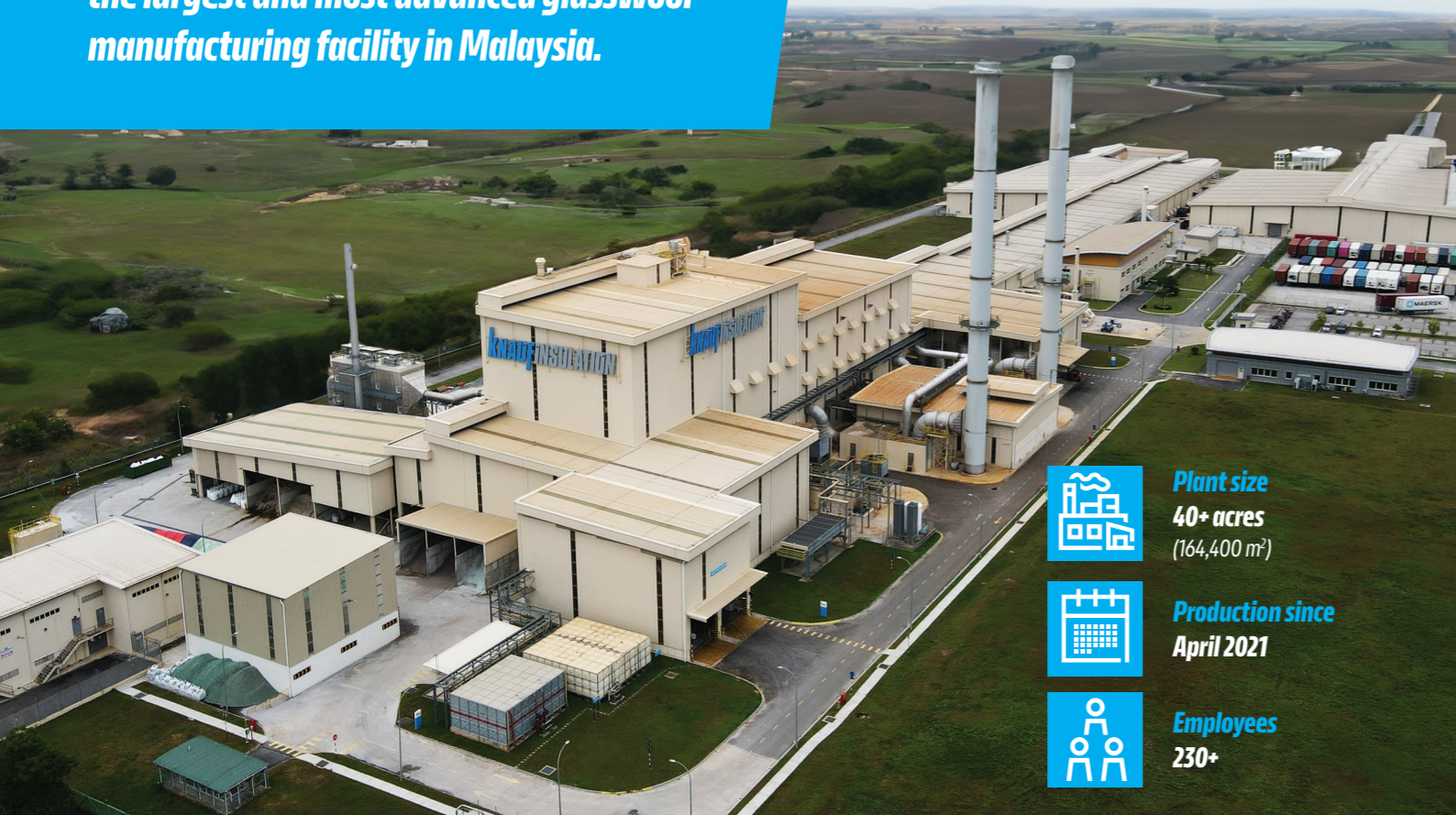
SOFT  
HANDLING



MOISTURE  
RESISTANCE

**Build on us.**

Innovation and production made possible by the largest and most advanced glasswool manufacturing facility in Malaysia.



**Plant size**  
40+ acres  
(164,400 m<sup>2</sup>)

**Production since**  
April 2021

**Employees**  
230+

Knauf Insulation glasswool products **meet stringent performance standards** and are **certified by industry recognised bodies** to give confidence for use in buildings.

### ENHANCED QUALITY ASSURANCE



#### ISO 9001: QUALITY MANAGEMENT CERTIFICATION

All of our products are made within the ISO 9001 quality management system ensuring that we deliver consistent performance, quality and service across our entire product range.



#### ILAC MUTUAL RECOGNITION ARRANGEMENT

Knauf Insulation's laboratory in Malaysia is accredited under the ILAC Mutual Recognition Arrangement (ILAC-MRA), demonstrating its technical competency in accordance with MS ISO/IEC 17025:2017, on thermal conductivity measurement.



This accreditation ensures the consistent delivery of technically valid test results and calibrations from the laboratory.

### LOW ENVIRONMENTAL IMPACT



#### GLOBAL GREENTAG<sup>CERT™</sup> GREENRATE™ LEVEL A CERTIFIED

Knauf Insulation glasswool is the first glasswool insulation in Australia to have GreenRate™ Level A certification, demonstrating they meet the toughest standards for health, eco performance and safety; and are also eligible for a range of credits within the GreenStar building rating scheme.



#### ISO 14001: ENVIRONMENTAL MANAGEMENT

All of our products are manufactured in accordance with the ISO 14001 Environmental Management system, demonstrating our commitment to minimise our impact on the environment.



#### ISO 50001: ENERGY MANAGEMENT

All of our products are manufactured in accordance with the ISO 50001 Energy Management system, demonstrating our commitment to conserving resources and minimising the impact of our processes through efficient energy management.

### NO HARMFUL CHEMICALS

#### Declare.



#### CERTIFIED DECLARE RED LIST FREE

The Declare label on our products demonstrates our commitment to transparency and is provided for products which declare 100% of their ingredients.

The Red List Free label confirms that no ingredients are added to our products which are on the Living Building Challenge (LBC) Red List of "worst in class" materials, chemicals and elements known to pose risks to human health.

### BEST-IN-CLASS LOW EMISSIONS FOR OPTIMUM INDOOR AIR QUALITY



#### EUROFINS GOLD CERTIFICATE FOR INDOOR AIR COMFORT

Our products have been awarded the Eurofins Gold Certificate for Indoor Air Comfort which is designed to demonstrate products with the best-in-class low levels of Volatile Organic Compound (VOC) emissions.

### BIO-SOLUBLE AND SAFE TO USE



#### EUCEB CERTIFIED

All of our products are EUCEB certified demonstrating that they are bio-soluble and are safe to use.



#### ISO 45001: OH&S MANAGEMENT

All of our products are manufactured in accordance with the ISO 45001 Occupational Health & Safety Management system, demonstrating our commitment to worker health & safety.

### ADVANCED TECHNOLOGY



#### ECOSE® Technology

Up to 70% less upfront embodied carbon than traditional binders.



#### TwinTech® Technology

Advanced dual-forming provides a high quality smooth finish on both sides.



#### DriTherm® Technology

A water-repellent additive designed to resist moisture and enhance durability in damp and humid conditions.

## SOLUTIONS SPECIFIC TO MALAYSIA AND SINGAPORE

Recognising Malaysia and Singapore's unique climate and insulation needs, Knauf Insulation is attuned to both countries' tropical environment and specific construction demands.

Our products are tailored to efficiently address the specific climatic conditions of Malaysia and Singapore, emphasising sustainability and lightweight solutions that surpass conventional insulation standards.

This comprehensive range ensures optimal thermal comfort and energy efficiency, meeting specific requirements across commercial, industrial, and residential sectors, for both new and existing buildings.



**KNAUF** Knauf Insulation is part of the Knauf Group, a global market leader in the field of sustainable lightweight construction.

**Knauf Group**

>€16bn turnover

41,500+ employees worldwide

300 plants & offices

90+ countries



**Knauf Insulation**

>€2.5bn turnover

6000+ employees worldwide

28 plants & offices

40+ countries

### NATIONAL PRODUCT CERTIFICATION AND ACHIEVEMENTS



To learn more scan the QR codes or visit [www.knauf.com](http://www.knauf.com).



MY

SG

# Features and benefits of Knauf Insulation glasswool

From manufacture to installation, **there is innovation at every stage.**



**THERMALLY EFFICIENT**

The **thermal properties** of Knauf Insulation glasswool products act as a barrier to the outside elements to limit heat loss in winter and heat gain in summer through your roofs, walls and floors. Buildings stay at a comfortable temperature all year-round.



**MADE WITH RECYCLED GLASS**

Our insulation is made from **up to 80% recycled glass**. Our new generation furnace uses more grades of glass than glass furnaces, taking more waste out of our environment.



**with ECOSE® SUSTAINABLY MANUFACTURED**

**ECOSE® Technology** is a sustainable, plant-based binder with **no added formaldehyde**. The natural, earthy brown colour comes from no added dyes or colours.



**REDUCES ENERGY BILLS**

By insulating a building properly, energy can be saved from the air-conditioning system when cooling a warm building and when heating during winter. Knauf Insulation glasswool **saves energy and saves money**.



**WATER REPELLENT**

Engineered for longevity - our **DriTherm® Technology boasts silicone treatment**, designed to resist moisture, particularly important in humid climates.



**ACOUSTIC PERFORMANCE**

Knauf Insulation glasswool products will improve the **acoustic performance** of the building in which they have been installed by absorbing the transfer of unwanted noise from external sources and between adjoining rooms, helping create peaceful and quiet buildings.



**RIGIDITY**

Offering higher rigidity, making it easier for installers to handle during installation. **Manufactured with TwinTech® Technology**, an innovative process which gives the insulation a smooth finish on both sides.



**LOW VOCs**

Knauf Insulation glasswool is supported by **Eurofins Indoor Air Comfort Gold** certification as an 'outstanding material' with low levels of VOCs (Volatile Organic Compounds) according to Indoor Air Quality Emissions certification.



**EASY TO HANDLE**

Our insulation is **super-soft, making it easier to handle and install**. There's no odour, less dust and less itch than traditional glasswool insulation.



**NON-COMBUSTIBLE**

Knauf Insulation glasswool is certified as **non-combustible** and will not contribute to fire spread.

Tested in accordance with:

- B.S. 476: Part 4 Non-combustibility, and BOMBA Class '0'
- B.S. 476: Part 7 Surface spread of flame
- B.S. 476: Part 6 Fire propagation



**COMPRESSION PACKED**

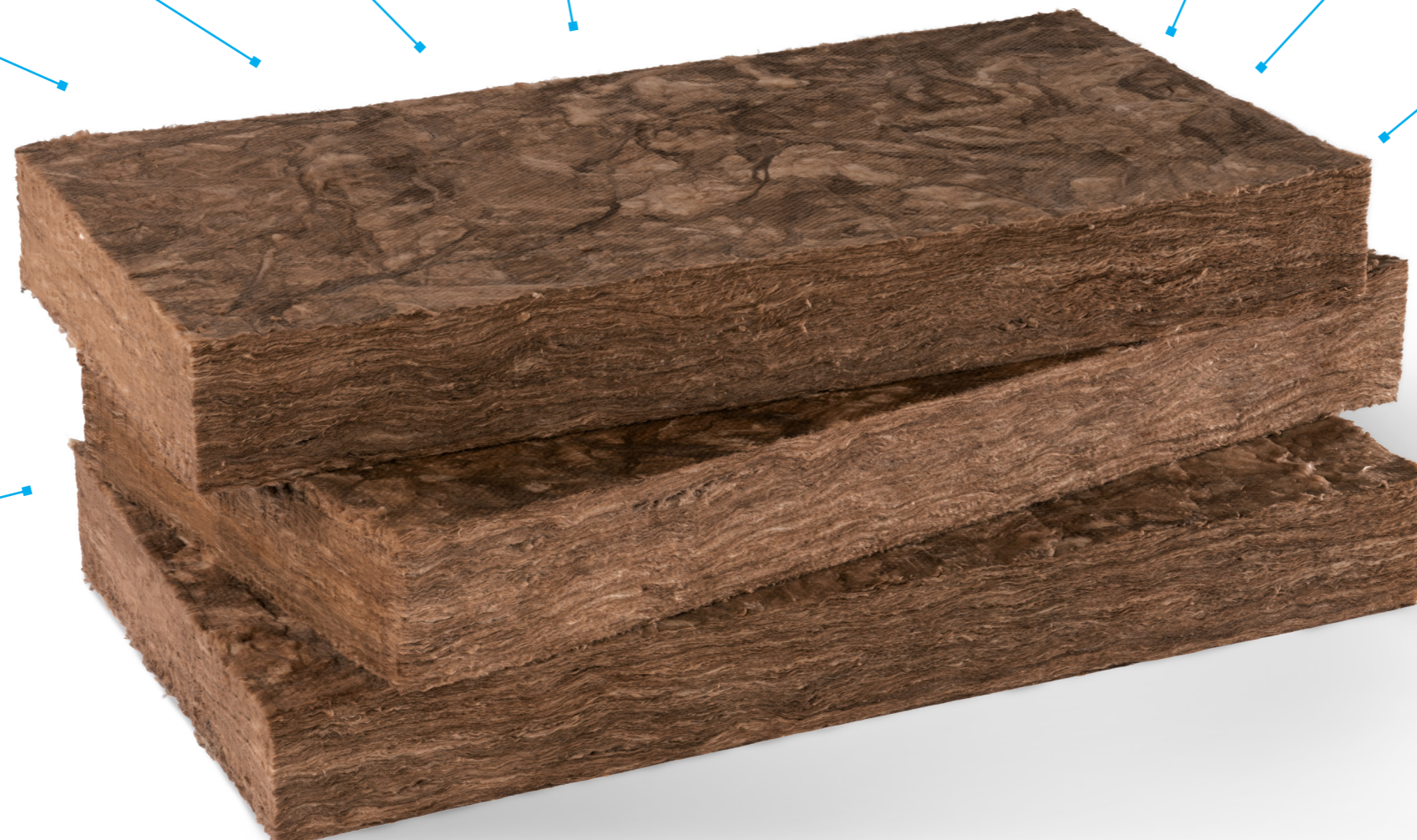
Our industry leading **compression packaging technology** enables us to compress our insulation with up to 10:1 ratio in terms of volume of space which can be insulated compared to the volume of the packaged product. This means less handling, less storage space, less packaging used and less transport.



**NO HARMFUL INGREDIENTS**

Knauf Insulation products have been awarded the Declare Red List Free label, where 100% of the ingredients are disclosed and **do not contain any Red List chemicals**.

**Declare.**



# Folded batt designed for quick and easy fit



## SPEEDY HANDLING

Folded batts are designed for rapid installation. Their folded format allows for easy handling and unfolding, minimising preparation time and reducing labour, especially in standard spaces.

## PRECISION AND FIT

Manufactured to precise, standard dimensions, folded batts ensure an accurate fit within wall cavities, ceilings, and floors. This precision simplifies installation and contributes to consistent insulation performance.

## MINIMISED WASTE AND EFFICIENT USE

Pre-measured and folded, these batts reduce material waste by minimising the need for cutting and the risk of overcutting during installation.

## FRICTION FIT FOR EASY INSTALLATION

Folded batts utilise a friction fit to stay firmly in place within cavities – eliminating the need for insulation pins. This stability ensures consistent thermal and acoustic performance without sagging.

## COMPACT AND CONVENIENT

Compressed and folded packaging makes these batts compact for efficient transport and storage, saving space and reducing logistical costs.



STANDARD 1200MM BATT



FOLDED 2700MM BATT

2.25 X LONGER

## INSTALL IN 4 EASY STEPS:



**1. Prepare the tools**  
Ensure all necessary tools are ready for the batt installation.



**2. Unpack and energise the batt**  
Carefully unpack and fully unfold the batt, ensuring it is prepared for installation. Energise by bouncing batt on its side.



**3. Friction fit and precise**  
Fit the batt into the stud, top down, neatly fitting into the cavity and no need for any pins.



**4. Rapid and firm install**  
Install the remaining batts quickly and ensure they are firmly in place, to prevent any sagging.

# Product Range:

## Knauf Insulation Partition Folded Batt / Batt / Roll



## APPLICATION



Knauf Insulation Partition Folded Batt / Batt / Roll with ECOSE® Technology will absorb the transfer of unwanted sound from outside to inside the building. In addition to sound absorption, it 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.

## SPECIFICATIONS

### Knauf Insulation Partition Folded Batt

Product Code	Density (kg/m <sup>3</sup> )	Thickness (mm)	Thermal Conductivity* <sup>①</sup> (W/mK)	R-Value (m <sup>2</sup> K/W)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
879366	16	50	0.0354	1.41	610	2,300	16.8	12
864388	16	50	0.0354	1.41	610	2,700	19.8	12
864390	20	50	0.0344	1.45	610	2,700	16.5	10



### Knauf Insulation Partition Batt

Product Code	Density (kg/m <sup>3</sup> )	Thickness (mm)	Thermal Conductivity* <sup>①</sup> (W/mK)	R-Value (m <sup>2</sup> K/W)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
864384	16	50	0.0354	1.41	610	1,200	17.6	24
860908	20	50	0.0344	1.45	610	1,200	14.6	20
864382	24	50	0.0332	1.50	610	1,200	12.4	17
864300	32	50	0.0326	1.53	610	1,200	10.25	14
864302	48	50	0.0314	1.59	610	1,200	8.05	11



### Knauf Insulation Partition Roll

Product Code	Density (kg/m <sup>3</sup> )	Thickness (mm)	Thermal Conductivity* <sup>①</sup> (W/mK)	R-Value (m <sup>2</sup> K/W)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
853942	16	50	0.0354	1.41	600	15,000	18.0	2



<sup>①</sup> 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). All dimensions are nominal.



## **SPECIFIED AND DISTRIBUTED BY**

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## **MANUFACTURED BY**

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**Build on us.**