

***KNAUF***INSULATION

***Insulation  
without  
compromise***

*For better buildings.*

***Build on us.***

***The world  
demands more  
from buildings.***

## **Better buildings are a global priority.**

All over the world, regulations and customer preferences are evolving, setting new performance standards for thermal comfort, for energy efficiency, for fire safety, for noise levels, for indoor air quality, and for longevity. Buildings must be better, and not just on paper, but in reality too.

At the same time, there's increasing urgency to decarbonise. To reduce the carbon cost and ecological impact of creating and enhancing our built environment.

Everyone in construction is under pressure to make buildings that achieve complex and multi-faceted performance requirements, in more sustainable ways. Buildings that are better for people and planet. That do more while using less.

That's the defining challenge for construction everywhere, from Brisbane to Bangkok, Singapore to Seoul, and beyond.

In a world that demands more, you need solutions that deliver it.

## **It's time for insulation without compromise.**

**04 Insulation without compromise**

**06 Products that do more**

**10 The complete package**

**14 Global expertise delivered locally**

**18 Solutions for every building**

**22 From a proven sustainability leader**

**26 The ECOSE® difference**

**30 Build on us**



# ***INSULATION WITHOUT COMPROMISE***

**Insulation without compromise is what you can expect from Knauf Insulation.**

It's **products that do more** while using less, contributing not just to thermal comfort, but to fire safety, sustainability, occupant health and peace and quiet as well.

It's **the complete package**, not just high-performance products, but a service offering that supports people at every stage of the process to make quality construction easier.

It's the best of **global manufacturing expertise, delivered locally**, and customised to the needs and requirements in each country.

It's 45 years of **low-carbon leadership** from a manufacturer deeply committed to safety, sustainability and occupant health. Insulation without compromise means having it all.

The world's favourite insulation, from a world leading manufacturer of glasswool solutions.

**It's why you should insist on Knauf Insulation.  
We believe you should not need to compromise.**

***Build on us.***



# Products that do more

We make glasswool insulation that's non-combustible, low-carbon and free from harmful ingredients.

Our whole-building solutions deliver thermal and acoustic performance to meet the highest standards, without compromising on the other things that matter.



## Reliable thermal & acoustic performance



- Solutions for every building, in every application – from roof to floor.
- A full range of R-values to comply with any energy efficiency standard, for more comfortable buildings that cost less to run.
- Engineered to absorb sound, so they reduce the impact of noise.
- Easier to install correctly, so they're more likely to perform in real buildings.
- Rigorously tested and certified by third parties to ensure they meet strict standards in every market.

## Low-VOC for healthier environments indoors and out



- Knauf Insulation glasswool insulation creates quieter, more comfortable spaces that are better for occupant health and wellbeing.
- Low-VOC and formaldehyde-free to preserve indoor air quality.
- Certified and proven to international standards:



Eurofins 'Indoor Air Comfort' Gold = meets the highest standards for low-VOC emissions.



DECLARE 'Red List Free' = contains no harmful ingredients – the first glasswool insulation in Asia Pacific to achieve this status.



EUCEB = certified bio-soluble and safe to use and handle.



## Low-carbon for higher sustainability standards



- Glasswool has the lowest-embodied carbon of any mainstream insulation material.
- Knauf Insulation glasswool is a low-carbon leader, with a comprehensive plan to reduce our carbon footprint.
- Sustainably made from up to 80% recycled glass, and with our unique plant-based binder ECOSE®.
- Backed by detailed Environmental Product Declarations (EPDs) that accurately and transparently report environmental impact.



Certified to meet and exceed the highest international standards for sustainable products, including GreenTagCert™ and GreenRate™ Level A certification.



## Naturally non-combustible for safer buildings



- Our non-combustible products are certified, so they won't contribute to the development or spread of fire.
- Glass is naturally non-combustible, so no fire retardant chemical additives are required.
- Fully tested to country-specific fire safety standards.
- Our non-combustible products are suitable for use in higher-risk buildings.



# *Partners in performance*

Western Sydney  
International Airport  
Australia







Western Sydney International Airport promises a passenger experience like no other. Designed by Zaha Hadid Architects, this once-in-a-generation project is crowned by a unique metal roof designed to look like an aircraft wing, and engineered to meet stringent performance requirements for fire safety, energy efficiency and noise reduction.

Principal contractor Multiplex and specialists Red 8 Roofing trusted Knauf Insulation to supply the best-in-class solutions this world-class building required.

We supplied a complete package of non-combustible insulation that exceeded requirements across the project's complex performance criteria. Working to a demanding schedule, we provided comprehensive testing and service support to the contracting team responsible for the 44,000m<sup>2</sup> roof. We even produced a custom roll product to deliver a set level of acoustic performance with a particular aesthetic.

The result; a high-performance roof worthy of a prestigious project.

“

***Whenever we came to them with an issue, they came back to us with a solution. Nothing was too hard.***

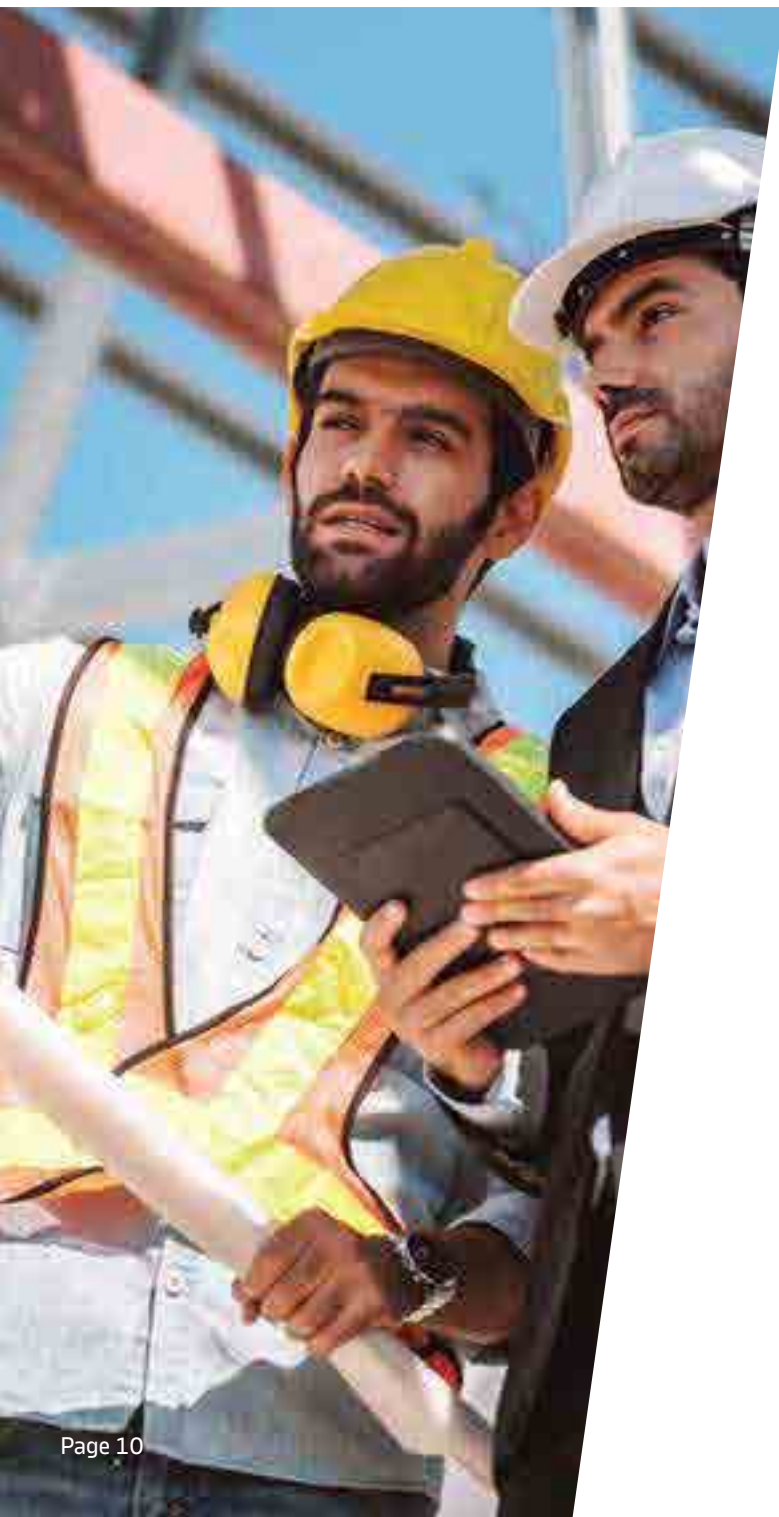
Hunter Key, Project Manager, Red 8 Roofing



# The complete package

We make quality construction easier.

With products and services designed to support customers at every stage of the construction process, and proven to deliver, so building performance is never compromised.



## Supporting specification

- Expert advice and resources to help specifiers navigate local regulations and project-specific technical challenges.
- Extensive third-party accreditations and certifications, including:



Declare.



JIS 認証  
規格製品



- Products engineered to minimise on-site gaps, maximising specified performance.

## Streamlining distribution

- A comprehensive product range, with solutions for all applications in any building.
- Clear labelling makes it easier to identify the right solution.
- Industry-leading 10:1 compression so our packaged insulation takes up less space, for more efficient transport and storage.



## Enabling installers

- Comprehensive install guides for a job well done.
- Products are designed to friction-fit between common stud and joist widths, to minimise cutting and prep work.
- Softer to touch and more pleasant to handle than conventional glasswool, thanks to our unique ECOSE® plant-based binder.
- More product per pack, so less time spent on the road or shifting product on site.



## Ensuring quality

- Products made to strict quality standards (ISO:9001 Certified).
- German engineering at a state-of-the-art manufacturing facility.
- Tested for durability and proven to perform for the life of a building.
- Warranted to local requirements when installed and maintained properly.
- Comprehensive installation instructions on how to fit Knauf Insulation products, including Supafil®.



Accredited manufacturer of the Insulation Installation Assurance Authority, a comprehensive quality assurance scheme for customers, backed by warranty.

# ***Support at every stage***

Onnetsu Kankyo  
Kaihatsu Inc.  
Japan





Insulation contractor Onnetsu Kankyo Kaihatsu Inc. specialises in residential new-build projects on the island of Hokkaido, Japan. With winter temperatures often below 0°C, these homes require high-performance products to preserve heat.

At the same time, Onnetsu Kankyo Kaihatsu Inc. requires reliable solutions that its installers can fit quickly and easily, so they can move on to the next project sooner, confident in a job well done.

That's why the company chooses Supafil® from Knauf Insulation.

“

***Knauf Insulation enabled us to grow our business by reducing costs during ceiling insulation, making life for our builders easier, due to simpler installation methods.***

Masahiro Mitsuboshi, President,  
Onnetsu Kankyo Kaihatsu Inc.



# ***Global expertise, locally delivered***

**The best of insulation innovation from a global leader.**

Made in the heart of the Asia Pacific region at our cutting-edge manufacturing site, and tailored to the specific needs of our customers in each market.

• Johor



## ***German engineering and global expertise***

- Glasswool is the world's favourite insulation material, and Knauf Insulation is a world leader in glasswool.
- Our products are based on German technology, shaped by 45 years of manufacturing expertise from our 28 factories worldwide.
- Unique glasswool insulation manufacturing recipe, fiberising technology and compression packaging.
- We aim to be innovation leaders, constantly pushing the boundaries of what's possible in glasswool technology.

**KNAUF**

We are part of the Knauf Group, the global construction material specialist.



## Advanced production technology

- In 2021, we opened our new glasswool manufacturing facility in Johor, Malaysia, dedicated purely to serving the needs of countries in the region.
- It's Knauf's most advanced glasswool insulation manufacturing facility, featuring the latest and best technology drawn from our global expertise in making superior products.
- We also operate a glass recycling facility in Townsville, Australia, that provides raw material we can turn into high-performance products.



## Customised to country needs

- We make products tailored to the building regulations and construction norms in each country we operate in, powered by a deep understanding of each market.
- We have extremely efficient service, shipping and distribution channels to get our products to our customers, when they need them.
- We are proud to be the only insulation manufacturer dedicated to the entire Asia Pacific region.






The image shows the interior of a building under construction. The ceiling and walls are covered in a thick, fibrous, brown material, which is sheep's wool insulation. Several long, silver metal tracks are mounted across the ceiling. The walls are framed with wooden studs, and the insulation is visible between the studs. On the right side, there is a window with a black frame, showing a view of the outdoors. The overall scene is a close-up of the construction details.

# ***Innovation to support higher standards***

Homes in New Zealand





New Zealand's updated H1 regulations introduced the most significant changes ever to home energy efficiency. Upgrading ceiling insulation is one of the simplest and most cost-effective ways for builders to comply with the new standards.

It's possible for builders to achieve this by adding a second layer of insulation. But that introduces additional labour and complexity to the build process. Knauf Insulation developed a better, more practical solution – a single-layer R7.0 ceiling batt specifically designed for New Zealand homes.

It delivers the thermal performance builders need for H1 compliance, but in a faster-to-fit format. In fact, when contractor Classic Builders put it to the test on a project in Tauranga, they found it took 40% less time to install properly versus a double-layer solution.

“

***The single layer solution from Knauf Insulation is much faster and easier to install, covers everything, and provides better in-situ performance than a double-layer system. It's definitely a better choice.***

Mark Fairclough, professional insulation installer,  
Install Solutions



# ***Solutions for every building***

**We supply the best of glasswool.**

With an extensive range of batts, rolls and blow-in solutions made-to-measure for each application and every building type.

***Superior glasswool in all its forms***



Batts



Rolls



Blow-in

***Market-leading brands***

**KNAUF**INSULATION

**EARTHWOOL**  
*the feel good glasswool insulation*

**SUPAFIL**



***Engineered for each  
application***



For metal roofs



For residential roofs



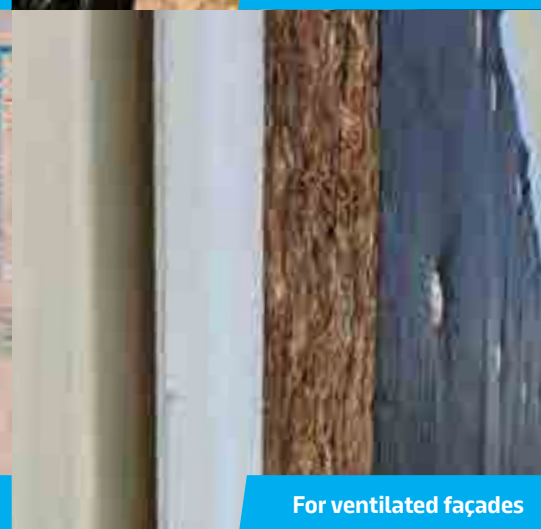
For rafters & skillions



For external walls



For timber frame



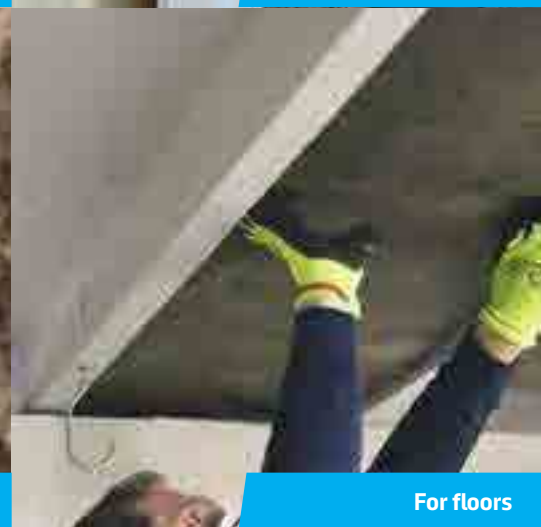
For ventilated façades



For ceilings



For internal partitions



For floors



# ***Fixing fire safety***

Daejeon Hyundai  
Premium Outlet mall  
South Korea







The Daejeon Hyundai Premium Outlet mall is a 130,000m<sup>2</sup> shopping complex that's a major destination for residents of the Korean city. Built in 2020, it suffered a serious fire incident just two years later that resulted in extensive damage. In the subsequent refurbishment, the need for non-combustible insulation products was paramount.

A Knauf Insulation spray blowing wool solution was chosen for its superior fire safety performance versus combustible urethane products. In just three months, 300 tons of the product were installed on the 45,000m<sup>2</sup> ceiling of the underground parking lot.

Mall customers can now shop in safety. And when they park, it's in a quieter, brighter space thanks to the sound absorption and distinctive white finish of our spray wool solution.

“

***Knauf Insulation's spray blowing wool was the most suitable product for meeting the non-combustibility and acoustic performance requirement for this project. It was very easy to choose.***

Lee Ji-Sung, Manager Sales Strategy team, Hyundai L&C



# From a proven sustainability leader

**We make solutions for better buildings.**

We make them with care for a better world, actively reducing our carbon footprint and environmental impact, so our customers don't need to compromise on sustainability.

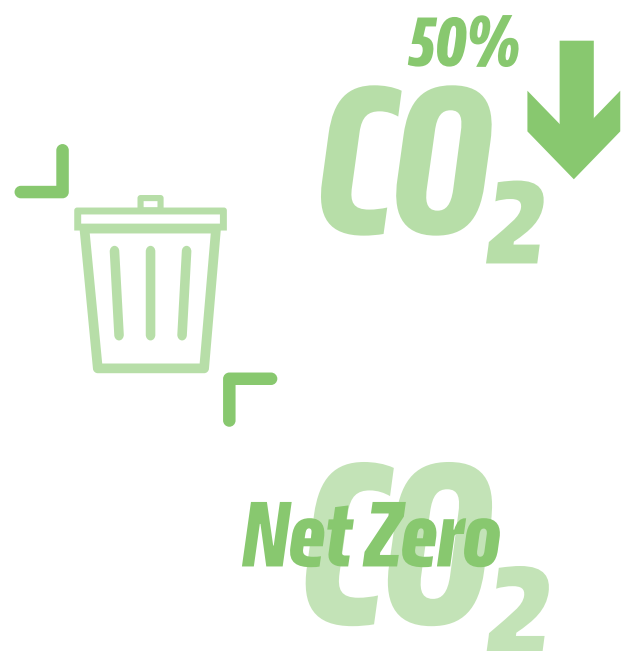


## **'Best in glass'** embodied carbon

- Glasswool has the lowest embodied carbon of any mainstream insulation material in Asia Pacific.
- Knauf Insulation products are even lower than industry benchmarks for glasswool, e.g. containing just one tenth of the embodied carbon for generic glasswool listed in the independent EPiC database in Australia.
- Our products 'repay' the carbon used in their manufacture in as little as 95 days.

## **Clear commitments and a comprehensive plan**

- We are working to demanding sustainability targets across our business, in the short, medium and long-term, including:
  - Zero waste to landfill by 2032.
  - 50% reduction in carbon emissions by 2032 (scope 1 & 2).
  - Net-zero carbon by 2045 (scope 1, 2 & 3).







## Open and robust reporting

- We are committed to transparent reporting of the environment impact of our products and operations on a regular basis.
- We submit our products to rigorous third-party testing for environmental and sustainability standards.
- We provide detailed EPDs for our product range, produced to the latest EN15804 +A2 standard.

## Manufacturing excellence

### Effective ingredients

- Up to 80% recycled glass.
- Trapped air - nature's best insulant, with a Global Warming Potential of zero.
- ECOSE® - our unique low-VOC, low-carbon binder.
- No harmful chemicals such as formaldehyde (often used to bind insulation fibres) or artificial fire retardants.

### Made with care

- Our Malaysia manufacturing plant only uses 100% renewable electricity.
- Manufacturing processes maximise material use.
- Products pre-cut and designed to minimise offcuts.

### Efficiently distributed

- 10:1 compression packaging.
- 100% recyclable plastic packaging.
- We prioritise lower-carbon shipping - choosing sea freight over road for less carbon-intensive deliveries.





# ***Building health***

HHOM Circuit Road  
Singapore





HHOM Circuit Road is a 478-bed co-living space for healthcare workers who are new to Singapore. Converted from an existing 4-storey school, the complex provides places for residents to socialise and exercise, in addition to hostel-like rooms for them to rest.

To address the unique challenges of retrofit, a complete Knauf system was chosen, consisting of Knauf Insulation batts and partition rolls, alongside Knauf Gypsum boards.

Thanks to the thermal, acoustic and environmental properties of this solution, key healthcare workers will have the comfortable and quiet living environment they deserve.



“

***The Knauf system makes it easy to achieve the specified performance, even when retrofitting an existing building.***

Contractor Inn Interior Enterprise Pte Ltd

# ***The ECOSE® difference***

**You can always tell when it's Knauf Insulation.**

But the distinctive natural colour of our products is more than just an easy way to tell it apart from other glasswool.

It's thanks to ECOSE®, our unique plant-based binder that doesn't just make it different – it makes a difference.



## ***Make the ECOSE® difference***

### ***Low carbon for better buildings***

ECOSE® is a low-carbon binder. Because it's predominantly plant-based, it has a lower carbon footprint than traditional binders.

## ***Breathe the ECOSE® difference***

### ***Free from harmful ingredients for improved indoor air quality***

Products made with ECOSE® are low-VOC and feature no harmful 'Red list' chemicals. So they contribute to indoor air quality, and earn credits under green building rating schemes.

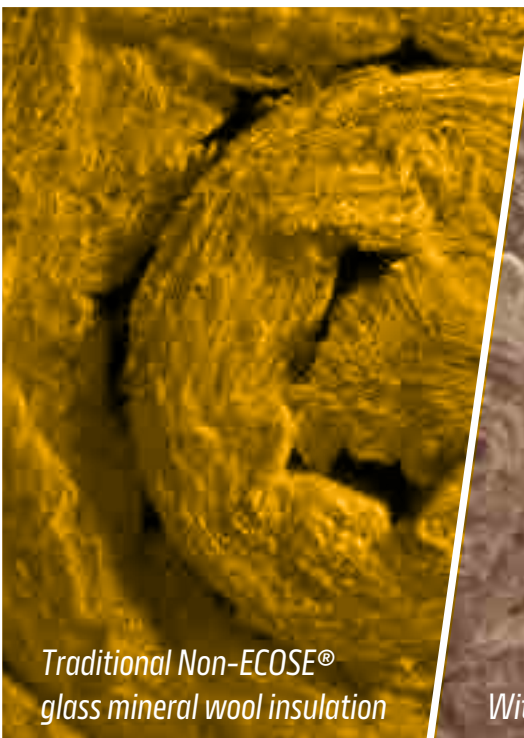




## Feel the ECOSE® difference

*Easier to handle for a better installer experience*

Products made with ECOSE® create a more pleasant installer experience. Customers tell us they are less dusty, itchy or irritating than those made with traditional binders.



Traditional Non-ECOSE®  
glass mineral wool insulation



With ECOSE®



## Trust the ECOSE® difference

*15 years of proven performance for better buildings*

For 15 years, ECOSE® has been making a difference. Products made with ECOSE® meet some of the most stringent international standards, including:



**Declare.**

# *Comfort for all*

International  
Medical University  
Malaysia





The International Medical University (IMU) in Kuala Lumpur undertook a substantial upgrade to enhance the learning environment for students. The project aimed to improve the acoustic performance of campus buildings while maintaining energy efficiency and reducing installation complexity.

A complete Knauf partition wall system was selected, featuring Knauf Insulation Partition Roll as the mineral wool infill, alongside Knauf sheetrock products and metal framing.

The campus is now a quieter, more efficient, more sustainable space, offering a much more pleasant educational environment for students. And because it was built with products featuring ECOSE®, the construction process was a much more pleasant experience for the installers too.

“

***Knauf Insulation is way less itchy compared to what we used to install. It's super-soft and easy to handle. It makes the installation process much faster and simpler.***

Installer, Superb Impression Creationz







## **Build on us**

We are Knauf Insulation. Every day, across Asia Pacific, our products and services are actively making buildings better. Safer, quieter, healthier, more comfortable, cheaper to run and better for the planet too.

Everything we do, and the way we do it, is guided by our promise to customers. That you can **Build on us**.

We will always be a reliable, hands-on and high-performing partner. You can count on us to deliver, to go the extra mile, and to help you achieve the best results.

This is a sincere commitment across the Knauf Group. It reflects nearly a hundred years of dedication to our customers and to providing the construction industry with quality materials and solutions.

**We provide insulation without compromise,  
so you can create better buildings.**

**Choose Knauf Insulation.**



**Learn more**

## **Knauf Insulation Pty Ltd**

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***Build on us.***