KNAUF INSULATION

OmniFit® Thermal and Sound Slab

February 2026

Build on us.

Description

OmniFit® Thermal and Sound Slab is a glass mineral wool slab, designed for use in multiple applications, providing acoustic and thermal performance.

OmniFit® Thermal and Sound Slab is non-combustible with the best possible Euroclass A1 reaction to fire classification, and is manufactured using our unique plant based binder, ECOSE® Technology.

Benefits

- Suitable for multiple thermal and acoustic applications, reducing the need for additional products.
- Offers sound absorption equivalent to low-density rock mineral wool products and has been awarded Quiet Mark certification.
- Maximised thermal performance, thanks to flexibility of glass mineral wool that adapts to irregular spaces and fills gaps.
- Glass mineral wool is a lower-carbon alternative for applications that previously used low-density rock mineral wool.
- Compression-packed to reduce volume, for more product per pallet, easier handling, and fewer trucks on the road.
- Holds a CCPI Assessment Mark (certificate number 000600200/0228) for the entire product set.

NON-COMBUSTIBLE INSULATION

with ECOSE® TECHNOLOGY

OmniFit® Thermal and Sound Slab

Technical Specifications

OMNIFIT® THERMAL AND SOUND SLAB

Thickness (mm)	**Thermal conductivity** (W/mK)	**Thermal resistance** (m^2K/W)	**Length** (mm)	**Width** (mm)	**Slabs per pack**	**Area per pack** (m^2)	**Packs per pallet**	**GWP A1-A3** ($kgCO_2e/m^2$)	**GWP A1-C4** ($kgCO_2e/m^2$)	**GWP A1-A3** ($kgCO_2e/kg$)	**GWP A1-C4** ($kgCO_2e/kg$)	**Pallet product code**
100	0.035	2.85	1200	600	6	4.32	32	1.50	2.14	0.79	1.12	883006
100	0.035	2.85	1200	400	6	2.88	42	1.50	2.14	0.79	1.12	883301
50	0.035	1.40	1200	600	12	8.64	24	0.75	1.07	0.79	1.12	883005
50	0.035	1.40	1200	400	12	5.76	36	0.75	1.07	0.79	1.12	883299

All dimensions are nominal.

EPD ID: S-P-10840. The declared unit is 1m^2 of unfaced glass mineral wool OmniFit® Thermal and Sound Slab with R-value of 2.85 m^2K/W (for a thickness of 100mm and a declared lambda of 0.035W/mK).

OmniFit® Thermal and Sound Slab

Performance

THERMAL (W/mK)

0.032		0.035				0.044

FIRE CLASSIFICATION

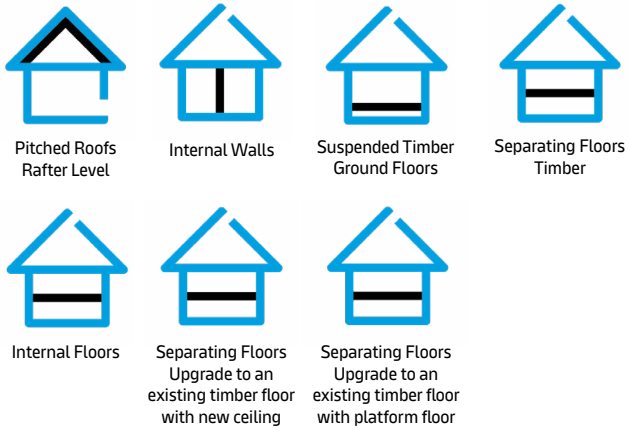
A1	A2-s1,d0	B	C	D	E	F

Euroclass reaction to fire classification

VAPOUR RESISTIVITY

5.00 MNs/g.m

Applications



Pitched Roofs Rafter Level

Internal Walls

Suspended Timber Ground Floors

Separating Floors Timber

Internal Floors

Separating Floors Upgrade to an existing timber floor with new ceiling

Separating Floors Upgrade to an existing timber floor with platform floor

Certification, accreditations and industry standards

Typical Build-Ups

OmniFit® Thermal and Sound Slab

Application

OmniFit® Thermal and Sound Slab is typically used for the thermal and acoustic insulation of a wide variety of constructions such as timber and metal stud partitions, timber frame walls, between rafters and timber floors.

OmniFit® Thermal and Sound Slab is non-combustible, with a Euroclass A1 rection to fire classification.

Standards and certification

OmniFit® Thermal and Sound Slab has a product declaration made in conformity with the requirements of BS EN 13162:2012+A1:2015 and are manufactured in accordance with ISO 50001:2018 Energy Management Systems, ISO 14001:2015+A1:2024 Environmental Management Systems, ISO 45001:2023+A1 Occupational Health and Safety Management Systems, and ISO 9001:2015+A1:2024 Quality Management Systems.

All of our mineral wool products are made of non-classified fibres 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.

OmniFit® Thermal and Sound Slab has been awarded Quiet Mark certification. Quiet Mark is the independent global certification programme associated with the UK Noise Abatement Society charitable foundation.

Through rigorous scientific testing and assessment, Quiet Mark identifies the quietest products in various categories spanning numerous sectors including commercial products, technology, and home appliances as well as building products that make a contribution to protection from noise.

OmniFit® Slabs are amongst the first products to carry the CCPI mark, helping to provide assurance to product users that the product information for these products is clear, accurate, accessible, up-to-date and unambiguous. The CCPI is playing a pivotal role in driving up standards in product information as the construction industry adapts to a new and improved building safety regime.

Thermal Modelling

The U-value of a proprietary built element (rainscreen façade/ masonry cavity wall/garage soffit etc.) or system is dependent on the material properties and the degree of thermal bridging in the system

Calculations should be created using 2D or 3D modelling programs which comply with the methodologies detailed in BS EN ISO 6946:2017 or BS EN ISO 10211:2017 and using guidance from BR443:2019.

We offer simplified calculations to BS EN ISO 6946:2017 and where required numerically modelled U-value calculations using software that is compliant with BS EN ISO 10211:2017.

System Testing

Knauf Insulation maintains declared product characteristics and qualities which are defined in detail in its Declaration of Performance (DoPs) and product literature. The product literature also includes information relating to Knauf Insulation's requirements and recommendations for installation of its products when being used as part of a system.

Any party using, or planning to use, our products in a system (with or without system testing) where performance may be dependent on product characteristics not declared on our DoPs or our product literature, must contact our Technical Service Team.

Knauf Insulation will not accept liability for any failure in system performance due to product characteristics not declared on DoPs or product literature, or not agreed in a Service Level Agreement. In such an event, any warranty given in relation to those products will be invalidated.

Real Performance

Glass and rock mineral wool are easier to install correctly than other insulants, such as rigid boards, because they adapt to any slight imperfections in the substrate and knit together, eliminating any air gaps. Mineral wool is engineered to adapt to any imperfections, and any settlement/movement over time, so it maintains close contact and preserves thermal performance for the life of the building.

Evidence shows the absence of air gaps is crucial to achieving real performance in the relevant application. Any insulation material that doesn't deliver 'as-built' thermal performance is failing in its primary purpose, and therefore presents an unnecessary risk as the construction industry seeks to close the performance gap.

Durability

OmniFit® Thermal and Sound Slab is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria. The product will have a life equivalent to that of the structure in which it is incorporated.

OmniFit® Thermal and Sound Slab

Sustainability

OmniFit® Thermal and Sound Slab is manufactured with ECOSE® Technology, our unique plant based binder which contains no added formaldehyde or phenol. It is made from natural raw materials that are rapidly renewable and is less energy-intensive to manufacture than traditional binders. Products made with ECOSE® Technology are soft to touch and easy to handle. They generate low levels of dust and VOCs and have been awarded the Eurofins Gold Certificate for Indoor Air Comfort.

All our glass mineral wool products have been awarded the DECLARE `Red List Free' label. The Declare label is a third-party accreditation and is similar to a food nutrition label but for building products; it is a straightforward ingredient list and allows product transparency disclosure because it identifies where a product comes from and what it is made of. Declare 'Red List Free' certifies that there is no harmful chemical from the red list in these products.

Our glass mineral wool is made with up to 80% recycled content (including glass from windows, bottles and jars).

OmniFit® Thermal and Sound Slab contains no ozone-depleting substances or greenhouse gases. The overall environmental performance of our products is reported in their EPDs (Environmental Product Declarations) which are available on our website. EPDs are available for all our products in accordance with ISO 14025:2023, ISO 21930:2017 and EN 15804+A2:2019.

We have received the BES6001(v4.0) 'Very Good' rating for all our mineral wool in our three plants, which proves that our products are made with constituent materials that are responsibly sourced.

Our 3-tier industry-leading compression-packaging technology allows us to load more product per pack or pallet, and therefore onto each truck that leaves our factories. This means less packaging used per m^2 of insulation, fewer vehicles on our roads, so less associated CO_2 emissions. It also means less transport, handling and storage space required for our customers.

Our individual products and the pallets they sit on are wrapped in low-density polyethylene (LDPE4) plastic, which is made of 30-50% (depending on the supplier) recycled plastic content and is fully recyclable.

Handling & Storage

OmniFit® Thermal and Sound Slab should be stored properly and handled in such a way as to ensure that the product remains clean and undamaged.

The polyethylene packs / shrink-wrapped pallets used for the supply of OmniFit® Thermal and Sound Slab are designed for short-term protection only. For longer term protection on site, the product should either be stored indoors or under cover and off the ground. OmniFit® Thermal and Sound Slab should not be left permanently exposed to the elements.

If the main hood is removed or damaged, the remaining packs should be kept under cover indoors or protected from the elements by a weatherproof cover. In coastal locations where weather is more extreme and bird damage is more common, use additional covering or store indoors.

The product must be protected from prolonged exposure to sunlight and stored dry and flat.

OmniFit® Thermal and Sound Slab is light and easy to handle; care should be exercised to avoid crushing its edges or corners. If damaged, the product should be discarded. Damaged, contaminated or wet product must not be used.

During construction exposed areas of slabs should always be covered at the end of a day's work or in heavy rain. Polyethylene covers should be used to provide protection and prevent work from becoming saturated.

Knauf Insulation Ltd
Stafford Road, St.Helens, Merseyside, WA10 3LZ Customer Service: 01744 766 766

KINE5213DAT-V0226

Build on us.