

Rocksilk® EWI Slabs

July 2024

Build on us.

Description

Rocksilk® EWI Slabs are rock mineral wool slabs designed for use in external wall insulation systems.

Slabs can be either adhered and mechanically-fixed or just mechanically-fixed to the substrate. The reaction to fire performance of the product removes the need for fire barriers, giving simple, quick and economical insulation for External Wall Insulation systems.

They are non-combustible with the best possible Euroclass A1 reaction to fire classification.

Benefits

- › No fire breaks required.
- › Rocksilk® EWI Slab Plus is available as a denser, compressively stronger slab than Rocksilk® EWI Slab.
- › Suitable for use with both silicone and mineral render systems providing design flexibility.
- › Manufactured with a water-repellent additive to prevent moisture ingress.
- › Manufactured from mineral wool which provides the best levels of sound absorption and reduction compared to other mainstream insulants.



NON-COMBUSTIBLE
INSULATION

Rocksilk® EWI Slabs

Technical Specifications

ROCKSILK® EWI SLAB

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Tensile Strength (kPa)	Compressive Strength (kPa)	Length (mm)	Width (mm)	Pieces per pallet	Area per pallet (m ²)	Pallet product code
270	0.036	7.50	10	30	1200	600	8	5.760	595566
250	0.036	6.90	10	30	1200	600	10	7.200	519396
230	0.036	6.35	10	30	1200	600	10	7.200	402600
200	0.036	5.55	10	30	1200	600	12	8.640	271494
170	0.036	4.70	10	30	1200	600	14	10.080	271277
150	0.036	4.15	10	30	1200	600	16	11.520	271270
120	0.036	3.30	10	30	1200	600	24	17.280	271217
100	0.036	2.75	10	30	1200	600	24	17.280	264383
90	0.036	2.50	10	30	1200	600	40	28.800	264382
60	0.036	1.65	10	30	1200	600	40	28.800	266166

ROCKSILK® EWI SLAB PLUS

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Tensile Strength (kPa)	Compressive Strength (kPa)	Length (mm)	Width (mm)	Pieces per pallet	Area per pallet (m ²)	Pallet product code
200	0.038	5.25	15	50	1200	600	12	8.640	2414726
140	0.038	3.65	15	50	1200	600	16	11.520	2411252
100	0.038	2.65	15	50	1200	600	24	17.280	2404581

All dimensions are nominal. Available via approved contractors.

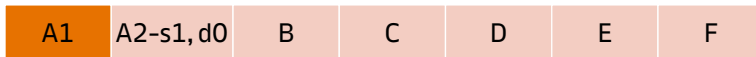
Rocksilk® EWI Slabs

Performance

THERMAL (W/mK)



FIRE CLASSIFICATION



Euroclass reaction to fire classification

GENERIC BRE GREEN GUIDE RATING

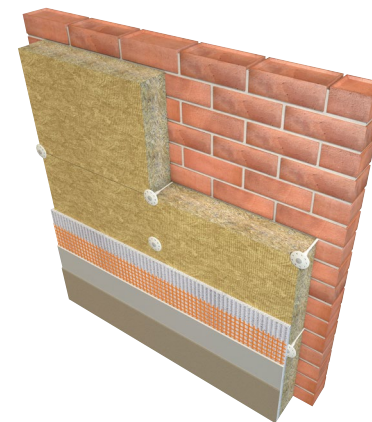


Applications



External wall insulation

Typical Build-Up



Certification, accreditations and industry standards



Rocksilk® EWI Slabs

Application

Rocksilk® EWI Slabs are specifically for use with external wall insulation systems. The slabs can be either adhered and mechanically-fixed or just mechanically-fixed to the substrate, then overlaid with a mesh and render system to the designers/system suppliers specification. The slabs offer a solid and robust supporting substrate for the render and no fire stops are required.

We offer two variants of Rocksilk® EWI Slabs. Rocksilk® EWI Slab has the best thermal performance in the range with a thermal conductivity of 0.036 W/mK. Rocksilk® EWI Slab Plus has the strongest mechanical characteristics in the range, with a compressive strength of 50 kPa and a tensile strength of 15 kPa.*

Rocksilk® EWI Slabs are non-combustible with the best possible Euroclass A1 reaction to fire classification.

Standards and Certification

Rocksilk® EWI Slabs have a product declaration made in conformity with the requirements of BS EN 13162 and are manufactured in accordance with ISO 50001 Energy Management Systems, ISO 14001 Environmental Management Systems, ISO 45001 Occupational Health and Safety Management Systems and ISO 9001 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.

** It is the responsibility of the customer and end user to satisfy themselves that this product is suitable for use and fit for purpose with the selected system. The end user is relying on their own expertise and judgements as to whether the insulation is suitable for their needs.*

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 or BS EN ISO 10211 and using guidance from BR443.

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

System Testing

Knauf Insulation maintains declared product characteristics and qualities which are defined in detail in its Declaration of Performances (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.

Moisture Resistance

Rocksilk® EWI Slabs are manufactured with a water-repellent additive meaning they will not transmit water to the external wall structure. The physical and chemical characteristics of the fibres are unaltered by wetting. Therefore, the thermal properties of Rocksilk® EWI Slabs are not affected by exposure to moisture and the product will perform as expected once dry and undamaged.

Durability

Rocksilk® EWI Slabs are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria. The products will have a life equivalent to that of the structure in which they are incorporated.

Rocksilk® EWI Slabs

Sustainability

Our rock mineral wool is manufactured using around 35% recycled content (recycled material mostly from the steel industry along with customer production waste).

Rocksilk® EWI Slabs contain 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, ISO 21930 and EN 15804+A2. We have received the BES6001 '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.

The pallets the products 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 and Storage

Rocksilk® EWI Slabs should be stored properly and handled in such a way as to ensure that the product remains clean and undamaged. The shrink-wrapped pallets used for the supply of Rocksilk® EWI Slabs 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. Rocksilk® EWI Slabs should not be left permanently exposed to the elements.

If the main hood is removed or damaged, the remaining slabs 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.

Rocksilk® EWI Slabs are 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 products 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

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