

ROCKSILK EWI SLAB

May 2022



APPLICATIONS



DESCRIPTION

Rocksilk® EWI Slab are Rock Mineral Wool slabs designed for use in external wall insulation systems. They are non-combustible with the best possible Euroclass A1 reaction to fire classification.

Slabs can be either adhered and mechanically fixed or just mechanically fixed to the substrate, and are available in thicknesses up to 270mm.

The fire resistance of the product removes the need for fire barriers, giving simple, quick and economical insulation for External Wall Insulation systems.

PERFORMANCE

Fire

Classification: EUROCLASS A1 to BS EN 13501-1.

Thermal

R-value: 2.35 to 3.13 m²K/W

Compressive strength

Performance: 30kPa

Tensile strength

Performance: 10kPa

BENEFITS

- ✓ Offers solid support to render
- ✓ No fire stops required
- ✓ Excellent thermal performance
- ✓ Excellent acoustic performance

CERTIFICATION



challenge.
create.
care.

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SPECIFICATIONS

Thickness (mm)	Thermal conductivity (W/mK)	R-value (m ² K/W)		R-value (m ² K/W)		Length (mm)	Width (mm)	Product Code
270	0.036	7.00		7.50		1200	600	595566
250	0.036	6.50		6.95		1200	600	519396
230	0.036	6.00		6.40		1200	600	402600
200	0.036	5.20		5.55		1200	600	271494
170	0.036	4.40		4.70		1200	600	271277
150	0.036	3.90		4.15		1200	600	271270
120	0.036	3.13e		3.30		1200	600	271217
110	0.036	2.87e		3.05		1200	600	271267
100	0.036	2.61e		2.75		1200	600	264383
90	0.036	2.35e		2.50		1200	600	264382
60	0.036	1.55		1.70		1200	600	266166

e=estimate



South African R-values calculated assuming 23°C mean temperature.



Euro R-values based on 10°C mean temperature, calculated according to requirements of λ90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

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ADDITIONAL INFORMATION

Durability

Rocksilk EWI Slab is non-hygroscopic, odourless, rot proof, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Application

Rocksilk EWI Slab is 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.

NOTE: 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.

Standards

Rocksilk EWI Slab is manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

Environmental

Rocksilk EWI Slab represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

Vapour resistivity

Rocksilk EWI Slab offers negligible resistance to the passage of water vapour and have a water vapour resistivity of 5.00MN.s.g.m.

Moisture resistance

Rocksilk EWI Slab contains a water repellent additive to ensure that no liquid water is able to pass through them and reach the structure.

Handling and storage

Rocksilk EWI Slab is easy to handle and install, being lightweight and easily cut to size, where necessary. Rocksilk EWI Slab is supplied on pallets and covered with shrink-wrapped polythene for protection during transit. This packaging should not be considered adequate for long term outside protection. For longer term protection on site, the products should be stored either indoors, or under cover and off the ground and should not be left permanently exposed to the elements. Slabs that have been allowed to get wet should not be used.

Krimpack technology

Krimpack™ technology realigns the mineral wool strands during manufacture to increase compressive strength without dramatically reducing thermal performance making Rocksilk EWI Slab an ideal product for use behind a render finish. Furthermore, Krimpack technology achieves a consistent density slab. This ensures better long-term compressive strength, high impact resistance, better thermal performance and a thinner, lighter product compared to other high-strength insulation options.



Knauf Insulation mineral wool products made with ECOSE Technology® benefit from a no added formaldehyde binder, which is up to 70% less energy intensive than traditional binders and is made from rapidly renewable bio-based materials instead of petroleum-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. Insulation products made with ECOSE Technology® contain no dye or artificial colours.

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