

ROCKSILK® RS45/RS60/RS100

November 2021



APPLICATIONS



DESCRIPTION

Rocksilk® Building Slabs are Rock Mineral Wool slabs in a range of densities, designed for use in multiple thermal and acoustic applications where density is critical. They are non-combustible with the best possible Euroclass A1 reaction to fire classification, and are manufactured using Knauf Insulation's unique bio-based binder, ECOSE® Technology.

BENEFITS

- ✓ Single slab can be used for multiple applications.
- ✓ Can be provided with a factory applied foil or tissue facing, offering solutions for a wide variety of applications.

PERFORMANCE

Thermal

Thermal conductivity: 0.034 and 0.035 W/mK

Fire

Classification: Euroclass A1 to BS EN 13501-1

Vapour resistivity

Water vapour resistivity: 5.00 MNs/g.m



CERTIFICATIONS, CLASSIFICATIONS AND INDUSTRY STANDARDS



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SPECIFICATIONS

Thickness (mm)	Thermal conductivity (W/mK)	R-value (m²K/W) 	R-value (m²K/W) 	Length (mm)	Width (mm)	NRC	Pieces per pack	Area per pack (m²)	Packs per pallet	Product code
Rocksilk® RS45										
150	0.035	4.19	4.25	1200	600		3	2.160	12	531096
100	0.035	2.79	2.85	1200	600	1.16	5	3.600	12	2411339
75	0.035	2.09	2.10	1200	600		6	4.320	12	2411328
60	0.035	1.68	1.70	1200	600		8	5.760	12	2411425
50	0.035	1.40	1.40	1200	600	0.96	10	7.200	12	2411327
40	0.035	1.12	1.10	1200	600		12	8.640	12	2411326
30	0.035	0.84	0.85	1200	600		16	11.520	12	2411424
25	0.035	0.70	0.70	1200	600		20	14.400	12	2411325
Rocksilk® RS60										
100	0.034	2.89	2.90	1200	600		4	2.880	12	2411331
75	0.034	2.17	2.20	1200	600		6	4.320	12	2411330
60	0.034	1.73	1.75	1200	600		7	5.040	12	2411433
50	0.034	1.44	1.45	1200	600		9	6.480	12	2411329
40	0.034	1.15	1.15	1200	600		12	6.480	12	2411432
25	0.034	0.72	0.70	1200	600		18	12.960	12	2411430
Rocksilk® RS100										
100	0.034	2.94	2.90	1200	600		3	2.160	16	2411334
75	0.034	2.21	2.20	1200	600		4	2.880	16	2411333
50	0.034	1.47	1.45	1200	600		6	4.320	16	2411441
40	0.034	1.18	1.15	1200	600		7	5.040	16	2411440
30	0.034	0.88	0.85	1200	600		10	7.200	16	2411439
25	0.034	0.74	0.70	1200	600		12	8.640	16	2411438
Rocksilk® RS100 WTF1										
30	0.034	0.88	0.85	1200	600		10	7.200	16	528143

All dimensions are nominal

Bespoke Sizes

RS45 Building Slab is available in bespoke dimensions to suit system specific requirements in thicknesses from 25 to 270mm.



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



Euro R-values based on 10°C mean temperature, calculated according to requirements of X90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

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ADDITIONAL INFORMATION

Durability

Rocksilk® Building Slabs are 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 wall structure in which it is incorporated.

Application

Rocksilk® Building Slabs are multi-application products for use in built-up metal roofs and walls, pitched roof constructions between rafters, intermediate floors, separating floors, internal stud partitions and light steel frame infill. Rocksilk® Building Slabs are used extensively in OEM applications for fabrication of thermal, acoustic and fire products.

Standards and Certification

Rocksilk® Building Slabs are manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by TÜV Nord.

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. Evidence shows the absence of air gaps is crucial to achieving real performance in the relevant application.

Environmental

Rocksilk® Building Slabs contains no ozone-depleting substances or greenhouse gases. For further environmental information consult the relevant Environmental Product Declaration, available on our website.

Handling and storage

Rocksilk® Building Slabs are easy to handle and install, being lightweight and easily cut to size, where necessary. Rocksilk® Building Slabs are supplied in recyclable polythene packs (4-LDPE) which 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® Building Slabs should not be left permanently exposed to the elements.



ECOSE® Technology is our unique bio-based binder, that is used in the manufacture of all of our Glass Mineral Wool products and the majority of our Rock Mineral Wool products, to bind insulation strands together. ECOSE® Technology contains no added formaldehyde or phenol. It is made from natural raw materials that are rapidly renewable and is 70% less energy-intensive to manufacture than traditional binders, so it is more environmentally-friendly. 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.

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challenge.
create.
care.