

ROCKSILK® FLAT ROOF SLABS

May 2022



APPLICATIONS



DESCRIPTION

RocksilK® Flat Roof Slab and RocksilK® Flat Roof Slab Extra are BBA certified Rock Mineral Wool slabs, designed for use in mechanically fixed flat roof build ups onto all types of roof deck.

They are non-combustible with the best possible Euroclass A1 reaction to fire classification, and are manufactured using Knauf Insulation's Krimpack® Technology.

PERFORMANCE

Thermal

R-value: 2.45 to 4.42 m²K/W

Fire

Classification: Euroclass A1 to BS EN 13501-1.

Vapour resistivity

Water vapour resistivity: 5.00 MNs/g.m.



Mechanical Characteristics

Compressive Strength: 60 kPa and 90 kPa

BENEFITS

- ✓ Slabs contain a special additive to ensure their water repellency.
- ✓ Manufactured using Knauf Insulation's Krimpack® Technology for high levels of compressive strength and durability.
- ✓ Excellent sound absorption and reduction characteristics reducing the drumming effect of rainfall.
- ✓ Slabs are engineered to adapt to minor imperfections in the substrates.

SPECIFICATIONS

Thickness (mm)	Thermal conductivity (W/mK)	R-value (m ² K/W)		R-value (m ² K/W)		Thermal Resistance (m ² K/W)	Length (mm)	Width (mm)	Slabs per pallet	Area per pallet (m ²)	Product code
RocksilK® Krimpack Flat Roof Slab											
180	0.038	4.42e		4.70		4.70	1200	1000	14	16.800	606059
145	0.038	3.56e		3.80		3.80	1200	1000	16	19.200	606057
120	0.038	2.95		3.15		3.15	1200	1000	20	24.000	606055
100	0.038	2.45e		2.60		2.60	1200	1000	24	28.800	606052
RocksilK® Krimpack Flat Roof Slab Extra											
150	0.039	3.55		3.80		3.80	1200	1000	16	19.200	606067
125	0.039	2.95		3.20		3.20	1200	1000	20	24.000	606065
105	0.039	2.50		2.65		2.65	1200	1000	24	28.800	606064
95	0.039	2.25		2.40		2.40	1200	1000	24	28.800	606061



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.

CERTIFICATION



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ADDITIONAL INFORMATION

Durability

Rocksilk® Flat Roof Slabs are odourless, rot proof, non-hygroscopic, do 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 roof structure in which it is incorporated.

Application

Rocksilk® Flat Roof Slabs are used for the thermal insulation of flat roofs. Rocksilk® Flat Roof Slabs are suitable for use under all kinds of single ply membrane, hot applied bitumen systems and mastic asphalt and are suitable for maintenance foot traffic only. Rocksilk® Flat Roof Slabs are suitable for use as an upstand board in warm roof applications when installed with the fixings and waterproof layer as detailed by the membrane manufacturer.

Standards

Rocksilk® Flat Roof Slabs have been assessed by the British Board of Agrément (BBA) under Certificate 08/4526 for use as a thermal insulation layer on limited access flat roofs with concrete, timber or metal decks. The certification offers contractors and specifiers utmost confidence that Rocksilk® Flat Roof Slabs are fit for their intended use and will have a life equivalent to that of the roof structure in which it is incorporated, provided that it is stored and installed correctly. Rocksilk® Flat Roof 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.

Environmental

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

Moisture

The physical and chemical characteristics of the fibres are unaltered by wetting. Therefore the thermal properties of Rocksilk® RainScreen Slab are not affected by exposure to moisture and the product will perform as expected once dry.

Handling and storage

Rocksilk® Flat Roof Slabs are easy to handle and install, being lightweight and easily cut to size, where necessary. Rocksilk® Flat Roof Slabs are supplied loose on a hooded (4-LDPE) pallet which is 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® Flat Roof 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.

Knauf Insulation Ltd

PO Box 10, Stafford Road, St.Helens,
Merseyside, WA10 3NS. UK

Customer Service (sales): +44 (0)1744 766 767
export.sales@knaufinsulation.com

Technical Support Team: +44 (0)1744 766 666
technical.uk@knaufinsulation.com

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