KNAUF INSULATION

Rocksilk® RainScreen Slabs

October 2025

Build on us.

Description

Rocksilk® RainScreen Slabs are rock mineral wool slabs, designed for use as sheathing insulation in rainscreen façade systems on any building of any height. They are non-combustible and are manufactured using our unique bio-based binder, ECOSE® Technology. Rocksilk® RainScreen Slabs are available in 600mm or 455mm formats depending on the application. *

* For Rocksilk® RainScreen Slab EE product information please see the Rocksilk® RainScreen Slab EE datasheet, available on our website.

Benefits

- Made with a water-repellent additive to resist moisture ingress
- Holds an Agrément certificate by the BBA (certificate 19/5609) for use with the broadest range of build-ups in the widest range of thicknesses on the market (excludes Rocksilk® RainScreen Slab EE)**
- Slabs are engineered to adapt to minor imperfections in the substrates
- Supported by 3D U-value calculation service (BS EN 10211 compliant) to accurately ensure the façade performs as specified
- Holds a CCPI Assessment Mark (certificate number 000600063/0426) for the entire product set

** Research undertaken in October 2025 based on live information for products used in a rainscreen system as an external sheathing insulation.

EUROCLASS A1 FIRE CLASSIFICATION
NON-COMBUSTIBLE INSULATION

with ECOSE® TECHNOLOGY

Rocksilk® RainScreen Slabs

Technical Specifications

Rocksilk® RainScreen Slabs

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m^2K/W)	Length (mm)	Width (mm)	Pieces per pack	Packs per pallet	Area per pack (m^2)	Area per pallet (m^2)	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
250	0.034	7.35	1200	600	2	10	1.440	14.400	17.45	1.27	21.13	1.54	656411
240	0.034	7.05	1200	600	2	10	1.440	14.400	16.75	1.27	20.29	1.54	656410
230	0.034	6.75	1200	600	2	12	1.440	17.280	16.05	1.27	19.44	1.54	656409
220	0.034	6.45	1200	600	2	12	1.440	17.280	15.36	1.27	18.60	1.54	656408
210	0.034	6.15	1200	600	2	12	1.440	17.280	14.66	1.27	17.75	1.54	640933
200	0.034	5.85	1200	600	2	12	1.440	17.280	13.96	1.27	16.91	1.54	640930
190	0.034	5.55	1200	600	2	12	1.440	17.280	13.26	1.27	16.06	1.54	652477
180	0.034	5.25	1200	600	3	10	2.160	21.600	12.56	1.27	15.22	1.54	640927
170	0.034	5.00	1200	600	3	10	2.160	21.600	11.87	1.27	14.37	1.54	651506
165	0.034	4.85	1200	600	3	10	2.160	21.600	11.52	1.27	13.95	1.54	658742
160	0.034	4.70	1200	600	3	10	2.160	21.600	11.17	1.27	13.53	1.54	651512
155	0.034	4.55	1200	600	3	12	2.160	25.920	10.82	1.27	13.10	1.54	658741
150	0.034	4.40	1200	600	3	12	2.160	25.920	10.47	1.27	12.68	1.54	640921
140	0.034	4.10	1200	600	3	12	2.160	25.920	9.77	1.27	11.83	1.54	651513
130	0.034	3.80	1200	600	3	12	2.160	25.920	9.07	1.27	10.99	1.54	651499
125	0.034	3.65	1200	600	4	10	2.880	28.800	8.73	1.27	10.57	1.54	658740
120	0.034	3.50	1200	600	4	10	2.880	28.800	8.38	1.27	10.14	1.54	640916
110	0.034	3.20	1200	600	4	12	2.880	34.560	7.68	1.27	9.30	1.54	650811
100	0.034	2.90	1200	600	4	12	2.880	34.560	6.98	1.27	8.45	1.54	640914
90	0.034	2.60	1200	600	5	12	3.600	43.200	6.28	1.27	7.61	1.54	650810
80	0.034	2.35	1200	600	5	12	3.600	43.200	5.58	1.27	6.76	1.54	650809
75	0.034	2.2	1200	600	6	12	4.320	51.840	5.24	1.27	6.34	1.54	640911
70	0.034	2.05	1200	600	6	12	4.320	51.840	4.89	1.27	5.92	1.54	650808
60	0.034	1.75	1200	600	7	12	5.040	60.480	4.19	1.27	5.07	1.54	650807
50	0.034	1.45	1200	600	8	12	5.760	69.120	3.49	1.27	4.23	1.54x	640909

All dimensions are nominal

Standard thickness.
All dimensions are nominal.

Rocksilk® RainScreen Slabs

Technical Specifications

ROCKSILK® RAINSCREEN SLAB 455MM

Thickness (mm)	**Thermal conductivity** (W/mK)	**Thermal resistance** (m^2K/W)	**Length** (mm)	**Width** (mm)	**Pieces per pack**	**Packs per pallet**	**Area per pack** (m^2)	**Area per pallet** (m^2)	**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**
220	0.034	6.45	1200	455	2	15	1.092	16.380	15.36	1.27	18.60	1.54	756635
210	0.034	6.15	1200	455	2	15	1.092	16.380	14.66	1.27	17.75	1.54	756633
200	0.034	5.85	1200	455	2	15	1.092	16.380	13.96	1.27	16.91	1.54	756631
150	0.034	4.40	1200	455	3	15	1.638	24.570	10.47	1.27	12.68	1.54	756630
140	0.034	4.20	1200	455	3	15	1.638	24.570	9.77	1.27	11.83	1.54	756629
110	0.034	3.20	1200	455	4	15	2.184	32.760	7.68	1.27	9.30	1.54	756628
100	0.034	2.90	1200	455	4	15	2.184	32.760	6.98	1.27	8.45	1.54	756627
90	0.034	2.60	1200	455	5	15	2.730	40.950	6.28	1.27	7.61	1.54	756626
80	0.034	2.35	1200	455	5	15	2.730	40.950	5.58	1.27	6.76	1.54	756625
75	0.034	2.20	1200	455	6	15	3.276	49.140	5.24	1.27	6.34	1.54	756503
60	0.034	1.75	1200	455	7	15	3.822	57.330	4.19	1.27	5.07	1.54	756528
50	0.034	1.45	1200	455	8	15	4.368	65.520	3.49	1.27	4.23	1.54	756500

Standard thickness.

All dimensions are nominal

EPD ID: S-P-03784 The declared unit is 1 m^2 of faced and unfaced rock mineral wool Rocksilk® RainScreen Slab with a thickness of 100 mm. The declared lambda is 0.034 W/mK..

Rocksilk® RainScreen Slabs

Performance

THERMAL (W/mK)

0.032	0.034		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

WIND LOAD

3.6kPa / (76m/s)

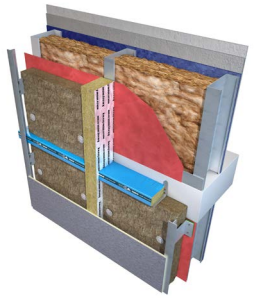
Applications

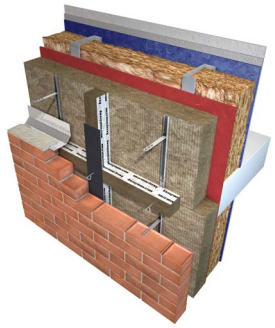
External masonry cavity walls - partially filled

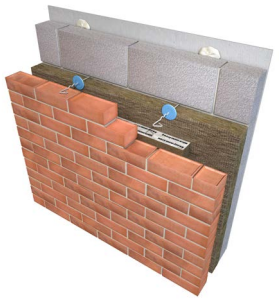
Rainscreen façade systems with light steel frame construction

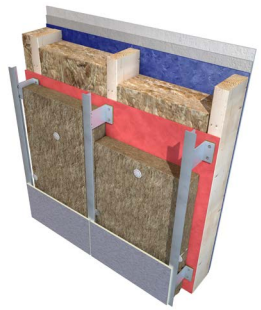
Rainscreen façade systems with masonry outer leaf

Typical Build-Ups









Certification, accreditations and industry standards

*not Rocksilk® RainScreen Slab EE

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Rocksilk® RainScreen Slabs

Application

Rocksilk® RainScreen Slabs are used for the thermal insulation of rainscreen façade systems and partially filled masonry cavities.

Rocksilk® RainScreen Slabs are lightweight but rigid enough to resist the compression forces generated when fixing the insulation slab to the building's substrate. The water-repellent additive in Rocksilk® RainScreen Slabs provides a further line of defence against moisture ingress in construction. Rocksilk® RainScreen Slabs are recommended for use in rainscreen façade systems using new and existing timber or steel-frame walls, reinforced concrete, masonry walls and cross laminated timber.

Rocksilk® RainScreen Slabs are also recommended for use in partial-fill applications, against a steel, timber, masonry or cross laminated timber inner leaf with a masonry façade.

Rocksilk® RainScreen Slabs are non-combustible and can be used for any buildings of any height.

Aesthetics

Rocksilk® RainScreen Slabs are available unfaced as standard.

If a black tissue facing is required, Rocksilk® RainScreen Slab EE is available. Please see separate datasheet available on our website.

Alternate facings are available as a bespoke product upon request and subject to a minimum order quantity.

Standards and certification

Rocksilk® RainScreen Slabs (excluding Rocksilk® RainScreen Slab EE) have an Agrément certificate by the BBA under the following certificates for thicknesses from 50mm to 250mm:

- 19/5609 PS1 for use in rainscreen façade systems on new and existing timber, steel frame, reinforced concrete, masonry walls and cross laminated timber.
- 19/5609 PS2 for use in new and existing partially filled steel frame , timber frame walls or cross laminated timber with a masonry façade.
- 19/5609 PS3 for use as partial-fill insulation on new external masonry or reinforced concrete cavity walls.

The certification offers contractors and specifiers confidence that Rocksilk® RainScreen Slabs are fit for intended use and will have a life equivalent to that of the wall structure in which they are incorporated, provided that they are stored and installed correctly.

Rocksilk® RainScreen Slabs are approved to be used in situations where they bridge the DPCs of the inner and outer leaf.

Rocksilk® RainScreen Slabs have 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.

Rocksilk® RainScreen Slabs 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.

All of our mineral wool is made of non-classified fibres and is 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.

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 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

Rocksilk® RainScreen 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® RainScreen Slabs are not affected by exposure to moisture and the product will perform as expected once dry and undamaged.

Rocksilk® RainScreen Slabs

Durability and Fitness for Use

Rocksilk® RainScreen Slabs are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Sustainability

Rocksilk® RainScreen Slabs are manufactured with ECOSE® Technology, our unique plant-based binder. It is low-carbon and generates low-VOCs, so it can be used to create better buildings - for occupiers, for installers and for the planet. ECOSE® provides the proven sustainability performance the industry needs, backed up by extensive testing and certification. ECOSE® is just one small element of our product proposition, but it makes a big difference.

All our unfaced rock mineral wool products made with ECOSE® Technology 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 rock mineral wool is manufactured using around 35% recycled content (recycled material mostly from the steel industry along with customer production waste).

Rocksilk® RainScreen 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 14025:2023, ISO 21930:2017 and EN 15804+A2:2019.

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

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

Rocksilk® RainScreen 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® RainScreen Slabs are designed for short-term protection only. For longer term protection on site, the products should either be stored indoors or under cover and off the ground. Rocksilk® RainScreen Slabs 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 products must be protected from prolonged exposure to sunlight, and stored dry and flat.

Rocksilk® RainScreen Slabs are light and easy to handle; care should be exercised to avoid crushing their edges or corners. If damaged, the products 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.

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