

ROCKSILK® RAINSCREEN SLAB AND BGV

February 2022



with **ECOSE** TECHNOLOGY

APPLICATIONS



DESCRIPTION

Rocksilk® RainScreen Slab is a BBA certified Rock Mineral Wool slab designed for use as sheathing insulation in rainscreen façade systems and as a partial fill insulation in masonry cavities. It is suitable for use in all buildings of any height.

It is non-combustible with the best possible Euroclass A1 reaction to fire classification, and is manufactured using our unique bio-based binder, ECOSE® Technology.

PERFORMANCE

Thermal

Thermal conductivity: 0.034 W/mK

Fire

Classification: Euroclass A1 to BS EN 13501-1

Vapour resistivity

Water vapour resistivity: 5.00 MNs/g.m

Wind Load

Wind fatigue testing 3.6kPa / (76m/s)

FEATURES AND BENEFITS

- ✓ BBA Certified (certificate 19/5609) for use in multiple build-ups so it can be specified with confidence.
- ✓ Supported by BS EN ISO 10211 compliant 3D U-value calculation service to accurately ensure buildings perform as specified
- ✓ Made with a water-repellent additive - slabs will maintain their integrity while exposed on site.
- ✓ Slabs are engineered to adapt to minor imperfections in the substrates.
- ✓ Suitable for use on all buildings including those above 18m in height.

SPECIFICATIONS

| Thickness (mm) | Thermal conductivity (W/mK) | Thermal resistance (m ² K/W) | Length (mm) | Width (mm) | Pieces per pack | Area per pack (m ²) | Packs per pallet | Product code |
|----------------|-----------------------------|---|-------------|------------|-----------------|---------------------------------|------------------|--------------|
| 220 | 0.034 | 6.45 | 1200 | 455 | 2 | 1.092 | 15 | 756635 |
| 210 | 0.034 | 6.15 | 1200 | 455 | 2 | 1.092 | 15 | 756633 |
| 200 | 0.034 | 5.85 | 1200 | 455 | 2 | 1.092 | 15 | 756631 |
| 150 | 0.034 | 4.40 | 1200 | 455 | 3 | 1.638 | 15 | 756630 |
| 140 | 0.034 | 4.20 | 1200 | 455 | 3 | 1.638 | 15 | 756629 |
| 110 | 0.034 | 3.20 | 1200 | 455 | 4 | 2.184 | 15 | 756628 |
| 100 | 0.034 | 2.90 | 1200 | 455 | 4 | 2.184 | 15 | 756627 |
| 90 | 0.034 | 2.60 | 1200 | 455 | 5 | 2.73 | 15 | 756626 |
| 80 | 0.034 | 2.35 | 1200 | 455 | 5 | 2.730 | 15 | 756625 |
| 75 | 0.034 | 2.20 | 1200 | 455 | 6 | 3.276 | 15 | 756503 |
| 60 | 0.034 | 1.75 | 1200 | 455 | 7 | 3.822 | 15 | 756528 |
| 50 | 0.034 | 1.45 | 1200 | 455 | 8 | 4.368 | 15 | 756500 |

CERTIFICATIONS, CLASSIFICATIONS AND INDUSTRY STANDARDS



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SPECIFICATIONS

| Thickness (mm) | Thermal conductivity (W/mK) | Thermal resistance (m ² K/W) | Length (mm) | Width (mm) | Pieces per pack | Area per pack (m ²) | Packs per pallet | Product code |
|----------------|-----------------------------|---|-------------|------------|-----------------|---------------------------------|------------------|--------------|
| 250 | 0.034 | 7.35 | 1200 | 600 | 2 | 1.440 | 10 | 656411 |
| 240 | 0.034 | 7.05 | 1200 | 600 | 2 | 1.440 | 10 | 656410 |
| 230 | 0.034 | 6.75 | 1200 | 600 | 2 | 1.440 | 12 | 656409 |
| 220 | 0.034 | 6.45 | 1200 | 600 | 2 | 1.440 | 12 | 656408 |
| 210 | 0.034 | 6.15 | 1200 | 600 | 2 | 1.440 | 12 | 640933 |
| 200 | 0.034 | 5.85 | 1200 | 600 | 2 | 1.440 | 12 | 640930 |
| 190 | 0.034 | 5.55 | 1200 | 600 | 2 | 1.440 | 12 | 652477 |
| 180 | 0.034 | 5.25 | 1200 | 600 | 3 | 2.160 | 10 | 640927 |
| 170 | 0.034 | 5.00 | 1200 | 600 | 3 | 2.160 | 10 | 651506 |
| 165 | 0.034 | 4.85 | 1200 | 600 | 3 | 2.160 | 10 | 658742 |
| 160 | 0.034 | 4.70 | 1200 | 600 | 3 | 2.160 | 10 | 651512 |
| 155 | 0.034 | 4.55 | 1200 | 600 | 3 | 2.160 | 12 | 658741 |
| 150 | 0.034 | 4.40 | 1200 | 600 | 3 | 2.160 | 12 | 640921 |
| 140 | 0.034 | 4.10 | 1200 | 600 | 3 | 2.160 | 12 | 651513 |
| 130 | 0.034 | 3.80 | 1200 | 600 | 3 | 2.160 | 12 | 651499 |
| 125 | 0.034 | 3.65 | 1200 | 600 | 4 | 2.880 | 10 | 658740 |
| 120 | 0.034 | 3.50 | 1200 | 600 | 4 | 2.880 | 10 | 640916 |
| 110 | 0.034 | 3.20 | 1200 | 600 | 4 | 2.880 | 12 | 650811 |
| 100 | 0.034 | 2.90 | 1200 | 600 | 4 | 2.880 | 12 | 640914 |
| 90 | 0.034 | 2.60 | 1200 | 600 | 5 | 3.600 | 12 | 650810 |
| 80 | 0.034 | 2.35 | 1200 | 600 | 5 | 3.600 | 12 | 650809 |
| 75 | 0.034 | 2.20 | 1200 | 600 | 6 | 4.320 | 12 | 640911 |
| 70 | 0.034 | 2.05 | 1200 | 600 | 6 | 4.320 | 12 | 650808 |
| 60 | 0.034 | 1.75 | 1200 | 600 | 7 | 5.040 | 12 | 650807 |
| 50 | 0.034 | 1.45 | 1200 | 600 | 8 | 5.760 | 12 | 640909 |
| 150 (BGV)* | 0.034 | 4.40 | 1200 | 600 | 3 | 2.160 | 12 | 640959 |
| 120 (BGV)* | 0.034 | 3.50 | 1200 | 600 | 4 | 2.880 | 10 | 640949 |
| 100 (BGV)* | 0.034 | 2.90 | 1200 | 600 | 4 | 2.880 | 12 | 640935 |

* Black Glass Veil. All dimensions are nominal. Other thicknesses between 50-250mm are available on request.

CERTIFICATIONS, CLASSIFICATIONS AND INDUSTRY STANDARDS



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ADDITIONAL INFORMATION

Durability

Rocksilk® RainScreen Slab is 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® RainScreen Slab is used for the thermal insulation of rainscreen façade systems and partially filled masonry cavities. Rocksilk® RainScreen Slab is lightweight but rigid enough to resist the compression forces generated when fixing the insulation slabs to the buildings substrate. The water repellent additive in Rocksilk® RainScreen Slab provides a further line of defence against rain penetration. Rocksilk® RainScreen Slab is recommended for use in rainscreen façade systems using a timber, SFS, masonry or reinforced concrete substrate.

Rocksilk® RainScreen Slab is also recommended for use in partial fill applications, against a steel, timber or masonry inner leaf with a masonry outer façade.

Standards and Certification

Rocksilk® RainScreen Slab has been assessed by the British Board of Agrément (BBA) under Certificate 19/5609 PS1 for use in rainscreen façade systems on new and existing timber, steel-frame, reinforced concrete or masonry walls. Rocksilk® RainScreen Slab is also assessed under Certificate 19/5609 PS2 for use in new and existing partially filled steel frame or timber frame walls with a masonry outer façade. Rocksilk® RainScreen Slab is further assessed under Certificate 19/5609 PS3 for use as partial fill insulation on new external masonry or reinforced concrete cavity walls. Rocksilk® RainScreen Slab is approved to be used in situations where it bridges the DPCs of the inner and outer leaf because it does not absorb water by capillary action. It is certified for thicknesses from 50mm to 250mm. The certification offers contractors and specifiers utmost confidence that Rocksilk® RainScreen Slab is fit for its intended use and will have a life equivalent to that of the wall structure in which it is incorporated, provided that it is stored and installed correctly.

Rocksilk® RainScreen Slab is 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® RainScreen Slab contains 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.

Thermal performance

The U-value of a proprietary rainscreen façade system is dependent on 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 10211.

We offer 3D numerically modelled U-value calculations compliant with BS EN ISO 10211 under the BBA/TIMSA U-value and Condensation Risk Analysis Competence Scheme.

Handling and storage

Rocksilk® RainScreen Slab is easy to handle and install, being lightweight and easily cut to size, where necessary. Rocksilk® RainScreen Slab is supplied in recyclable polythene packs 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® RainScreen Slab 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

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Customer Service: 01744 766 766 Technical Support Team: 01744 766 666

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