# **KNAUFINSULATION**

# ROCKSILK® RAINSCREEN FFCB

## March 2024



## **PRODUCT DESCRIPTION**

Rocksilk<sup>®</sup> RainScreen FFCB is a patented cavity barrier made from rock mineral wool, that is designed to be face-fixed to Rocksilk<sup>®</sup> RainScreen Slab as the masonry façade is constructed.

It is part of our rainscreen cavity system with Rocksilk® RainScreen Slabs and Rocksilk® RainScreen Slab Fixings that provide fire resistance for up to 90 minutes insulation and integrity (EI90).

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.

### **BENEFITS**

- Part of our tested rainscreen cavity system providing fire resistance for up to 90 minutes insulation and integrity.
- Is installed after Rocksilk® RainScreen Slabs are in place, meaning that the slabs do not need to be cut away, reducing waste and increasing efficiency on-site.
- Barrier thickness does not change, no matter the thickness of Rocksilk<sup>®</sup> RainScreen Slab, and ties can be cut to suit.
- Foil-faced to ensure correct orientation of barrier.
- Suitable for vertical and horizontal applications.

### CERTIFICATION



## **APPLICATIONS**





Frame construction With masonry outer



Timber frame walls Built-in insulation between studs with partially filled cavity

# SPECIFICATIONS



PERFORMANCE	ROCKSILK® RAINSCREEN FFCB							
FIRE CLASSIFICATION	Product Name	<b>Length</b> (mm)	<b>Width</b> (mm)	<b>Thickness</b> (mm)	Quantity per box	<b>Tie Length</b> (mm)	Ties per box	Product code
A1 A2 s1,d0 B C	Rocksilk® RainScreen FFCB	1200	102	200	15	400	45	795617
		1200	102	200	15	300	45	795615
		1200	52	200	33	400	99	795613
		1200	52	200	33	300	99	795614
		1200	52	200	33	200	99	795616
		1200	52	100	66	400	198	795419
		1200	52	100	66	300	198	795371
		1200	52	100	66	200	198	794378
		1200	600	100	6	n/a	n/a	801370
		1200	600	200	3	n/a	n/a	801372
	Rocksilk® RainScreen FFCB Tie	n/a	n/a	2.1	n/a	400	100	795620
		n/a	n/a	2.1	n/a	300	100	795619
		n/a	n/a	2.1	n/a	200	100	795618

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# ADDITIONAL INFORMATION

#### Application

Rocksilk® RainScreen FFCB is used as a cavity barrier in closed state cavities to provide fire resistance between compartments, floor levels and cavity openings such as windows or doors. It is suitable for use in partially filled masonry cavities where the inner leaf is concrete/ masonry/steel or timber frame.

A 100mm Rocksilk<sup>®</sup> RainScreen FFCB will provide fire resistance of 30 minutes insulation and 90 minutes integrity, while a 200mm Rocksilk<sup>®</sup> RainScreen FFCB will provide fire resistance of 90 minutes insulation and integrity.

When factory finished to suit cavity dimensions, Rocksilk<sup>®</sup> RainScreen FFCB comes with three ties per barrier included in the box. When ordered as a full slab, ties should be ordered separately. They should be a suitable depth such that they sit in contact with the sheathing board when installed. The ties can be easily trimmed to size.

Rocksilk® RainScreen FFCB can only be used in conjunction with Rocksilk® RainScreen Slab.

#### **Standards and certification**

Rocksilk® RainScreen FFCB has been assessed by Underwriters Laboratories (UL) under assessment report 4790643767-1 to provide fire resistance to partially filled cavities with a masonry façade.

All of our rock mineral wool products are made of non-classified fibres and are 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.

Rocksilk® RainScreen FFCB is manufactured in accordance with ISO 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems.

#### **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 or 10211 and using guidance from BR443.

We offer simplified calculations to BS EN ISO 6946 and where required numerically modelled U-value calculations using software that is compliant with BS EN ISO 10211.

#### 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 Resistance**

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

#### Durability

Rocksilk® RainScreen FFCB 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.

#### **Sustainability**

Rocksilk® RainScreen FFCB is manufactured with ECOSE® Technology, our unique bio-based binder which 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. 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.

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 FFCB contains 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, ISO 21930 and EN 15804+A2.

We have received the BES6001 `Very Good' rating for all our mineral wool in our three plants, which proves that our products are made with constituent materials that are responsibly sourced.



#### Handling & Storage

Rocksilk® RainScreen FFCB should be stored properly and handled in such a way as to ensure that the product remains clean and undamaged.

The cardboard boxes and wrapped pallets used for the supply of Rocksilk® RainScreen FFCB 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 FFCB should not be left permanently exposed to the elements.

If the main hood is removed or damaged, the remaining boxes 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 FFCB is light and easy to handle; care should be exercised to avoid crushing its edges or corners. If damaged, the products should be discarded. Damaged, contaminated or wet products must not be used.

During construction exposed areas 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.

#### **Knauf Insulation Ltd**

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