

# **Rocksilk® RainScreen FireStop Slab**

July 2024

**Build on us.**

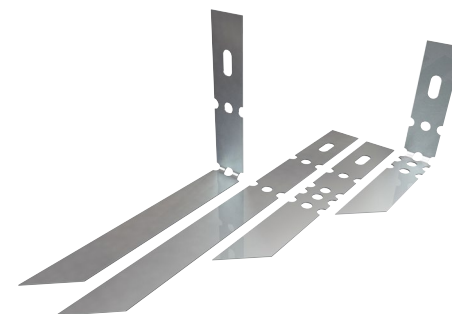
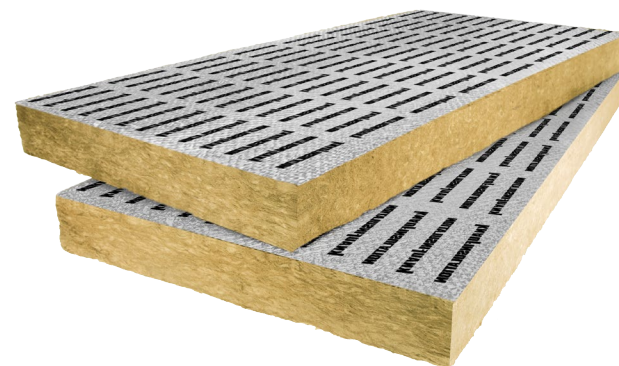
## *Description*

Rocksilk® RainScreen FireStop Slab is a cavity barrier manufactured from rock mineral wool, suitable for use as a vertical cavity barrier in buildings with a ventilated cavity, and vertically and horizontally in buildings with masonry façades.

It is part of a tested system with Rocksilk® RainScreen Slabs that provides fire resistance for up to 180 minutes integrity and 45 minutes insulation (E180 I45).

## *Benefits*

- › Forms part of a tested system providing fire resistance for up to 180 minutes integrity and 45 minutes insulation
- › Fixing bracket included as standard
- › Foil-faced on both sides for simple installation
- › Available in full slab to cut on site or factory finished cut to size
- › Suitable for vertical and horizontal masonry and vertical cladding applications.



# Rocksilk® RainScreen FireStop Slab

## Technical Specifications

### ROCKSILK® RAINSCREEN FIRESTOP SLAB

Maximum cavity width (mm)	Dimensions (mm)	Pieces per pack	Packs per pallet	Product Code
450	100x600x1200	n/a	40	829620
50	55x100x1200	48	10	834133
60	65x100x1200	40	10	834134
70	75x100x1200	40	10	834135
80	85x100x1200	30	10	834136
90	95x100x1200	24	10	834137
100	105x100x1200	24	10	834138
110	115x100x1200	24	10	834139
120	125x100x1200	18	10	834140
130	135x100x1200	18	10	834141
140	145x100x1200	18	10	834142
150	155x100x1200	18	10	834143
160	165x100x1200	12	12	834144
170	175x100x1200	12	12	834145
180	185x100x1200	12	12	834146
190	195x100x1200	12	10	834147
200	205x100x1200	12	10	834148
210	215x100x1200	12	10	834149
220	225x100x1200	12	8	834150
230	235x100x1200	12	8	834151
240	245x100x1200	10	8	834152

All dimensions are nominal

# Rocksilk® RainScreen FireStop Slab

## Technical Specifications

### ROCKSILK® RAINSCREEN FIRESTOP SLAB

Maximum cavity width (mm)	Dimensions (mm)	Pieces per pack	Packs per pallet	Product Code
250	255x100xv1200	10	8	834153
260	265x100x1200	8	10	834154
270	275x100x1200	8	10	834155
280	285x100x1200	8	10	834156
290	295x100x1200	8	10	834157
300	305x100x1200	8	10	834158
325	330x100x1200	6	10	834159
350	355x100x1200	6	10	834160
375	380x100x1200	6	10	834161
400	405x100x1200	4	10	834162
425	430x100x1200	4	10	834163
450	455x100x1200	4	10	834164

### ROCKSILK® RAINSCREEN FIRESTOP SLAB FIXING BRACKET

Maximum cavity width (mm)	Dimensions (mm)	Pieces per pack	Packs per pallet	Product Code
160	200x25x1	10	n/a	834111
450	275x25x1	10	n/a	834110

All dimensions are nominal

# Rocksilk® RainScreen FireStop Slab

## Performance

### FIRE PERFORMANCE

	Substrates	Cavity widths (mm)	Fire performance (mins)	
			Integrity (E)	Insulation (I)
Vertical	CP Board	50-450mm	120	45
	Masonry	50-300mm	180	45
Horizontal	CP Board	50-450mm	120	45
	Masonry	50-300mm	180	45

## Applications



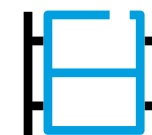
Masonry cavity walls  
partially filled



Frame construction with  
masonry outer

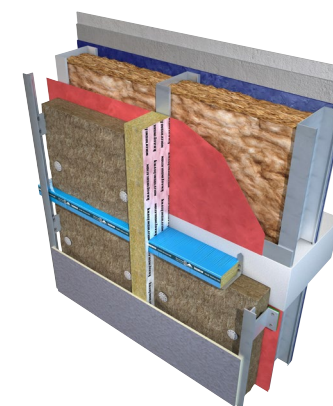
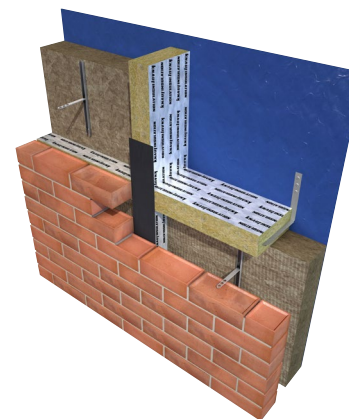


Timber frame walls  
built-in insulation  
between studs with  
partially filled cavity



Rainscreen façade  
system

## Typical Build-Up



## Certification, accreditations and industry standards



# Rocksilk® RainScreen FireStop Slab

## Application

Rocksilk® RainScreen FireStop Slab is used as vertical open state cavity barriers in buildings with ventilated cavities or as a horizontal and vertical 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.

Rocksilk® RainScreen FireStop Slab is recommended for use against a steel, timber, masonry inner or reinforced concrete inner leaf where the construction has a ventilated cavity.

Rocksilk® RainScreen FireStop Slab should be partnered with Rocksilk® RainScreen OSCB which is installed horizontally, and Rocksilk® RainScreen Slabs for a complete rainscreen cavity system for open state cavities.

Rocksilk® RainScreen FireStop Slab should be partnered with Rocksilk® RainScreen Slabs for a complete rainscreen cavity system for closed state cavities.

## Standards and Certification

Rocksilk® RainScreen FireStop Slab has been tested to BS EN 1366-4 and is third party certified by IFC Certification Ltd (KIWA) under certificate number IFCC 1940

## Thermal Modelling

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.

## 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 FireStop Slab are not affected by exposure to moisture and the product will perform as expected once dry and undamaged.

## Durability

Rocksilk® RainScreen FireStop 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 structure in which it is incorporated.



# Rocksilk® RainScreen FireStop Slab

## Sustainability

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 FireStop Slab 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 and Storage

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

The boxes used for the supply of Rocksilk® RainScreen FireStop Slab 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 FireStop Slab should not be left permanently exposed to the elements.

The product must be protected from prolonged exposure to sunlight, and stored dry and flat.

Rocksilk® RainScreen FireStop Slab is light and easy to handle; care should be exercised to avoid crushing the edges or corners. If damaged, the product 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

Stafford Road, St.Helens, Merseyside, WA10 3LZ Customer Service: 01744 766 766

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