

## ROCKSILK® RAINSCREEN FFCB INSTALLATION GUIDE



### WHAT YOU NEED TO KNOW

## CONTENTS

	Page
Safety Considerations	3
Typical System	4
Pre-Installation Considerations	5
Placement	6
Installation Sequence	8
Cutting	10
Detailing Considerations	11
Fixings	14
Maintenance	15



# SAFETY CONSIDERATIONS

## STORAGE

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

Rocksilk® RainScreen FFCB is supplied in cardboard boxes, hood wrapped on a pallet, 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 FFCB should not be left permanently exposed to the elements.

If the main hood is removed or damaged, the 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 product must be protected from prolonged exposure to sunlight, and stored dry and flat.



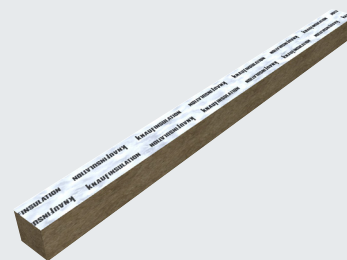
✓ **Barriers protected from weathering potential**

## HANDLING

Rocksilk® RainScreen FFCB 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 product 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.



✗ **Barriers exposed to the elements**

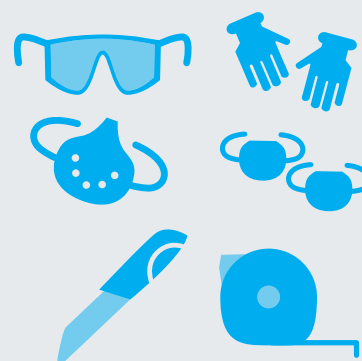
## SAFETY EQUIPMENT AND TOOLS

It is recommended that the following Personal Protective Equipment and tools should be used while handling the product:

**PPE:** Dust mask (FFP1 minimum), gloves, safety glasses

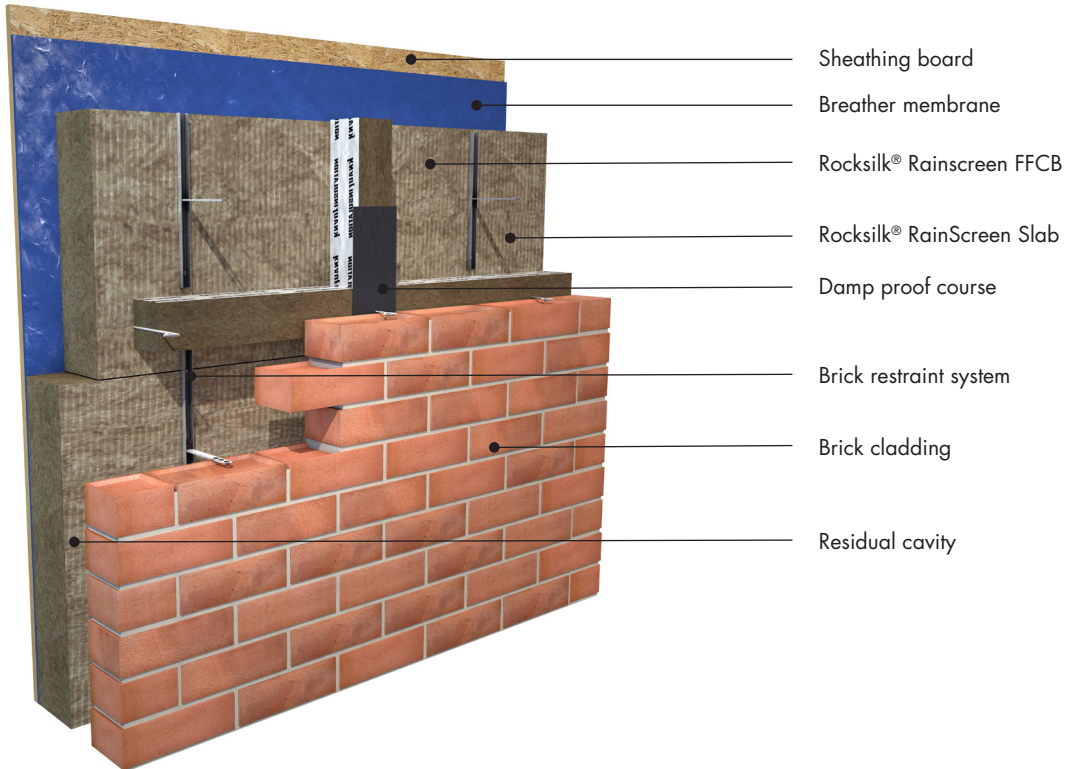
**Tools:** Knife or fine-toothed saw, tape measure

It is recommended that dust masks, gloves and long-sleeved clothing should be worn during cutting and handling of the product.

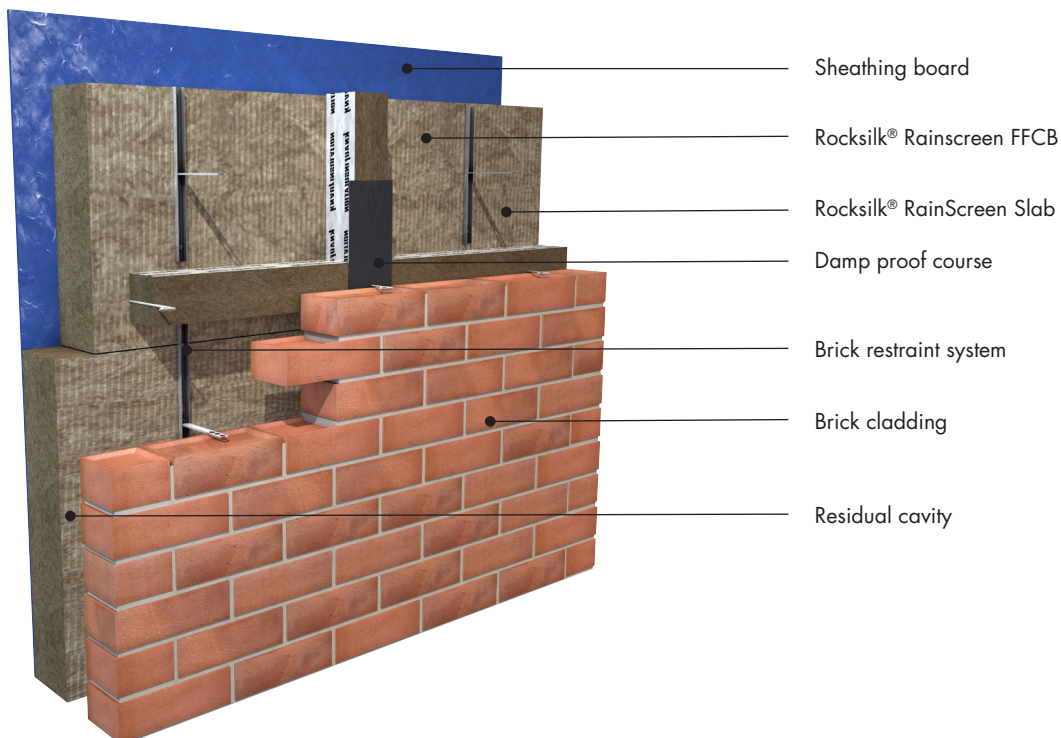


# TYPICAL PARTIALLY FILLED MASONRY CAVITY SYSTEMS

## TIMBER FRAME



## STEEL FRAME

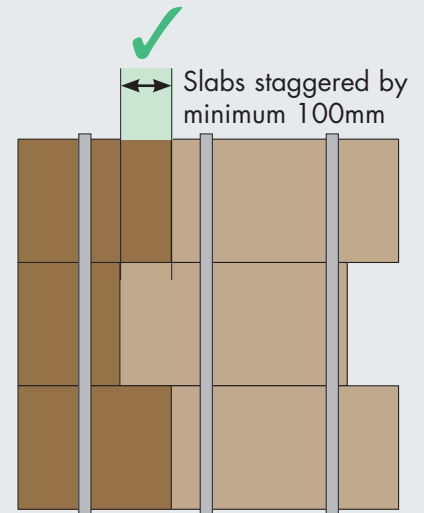


# PRE-INSTALLATION CONSIDERATIONS

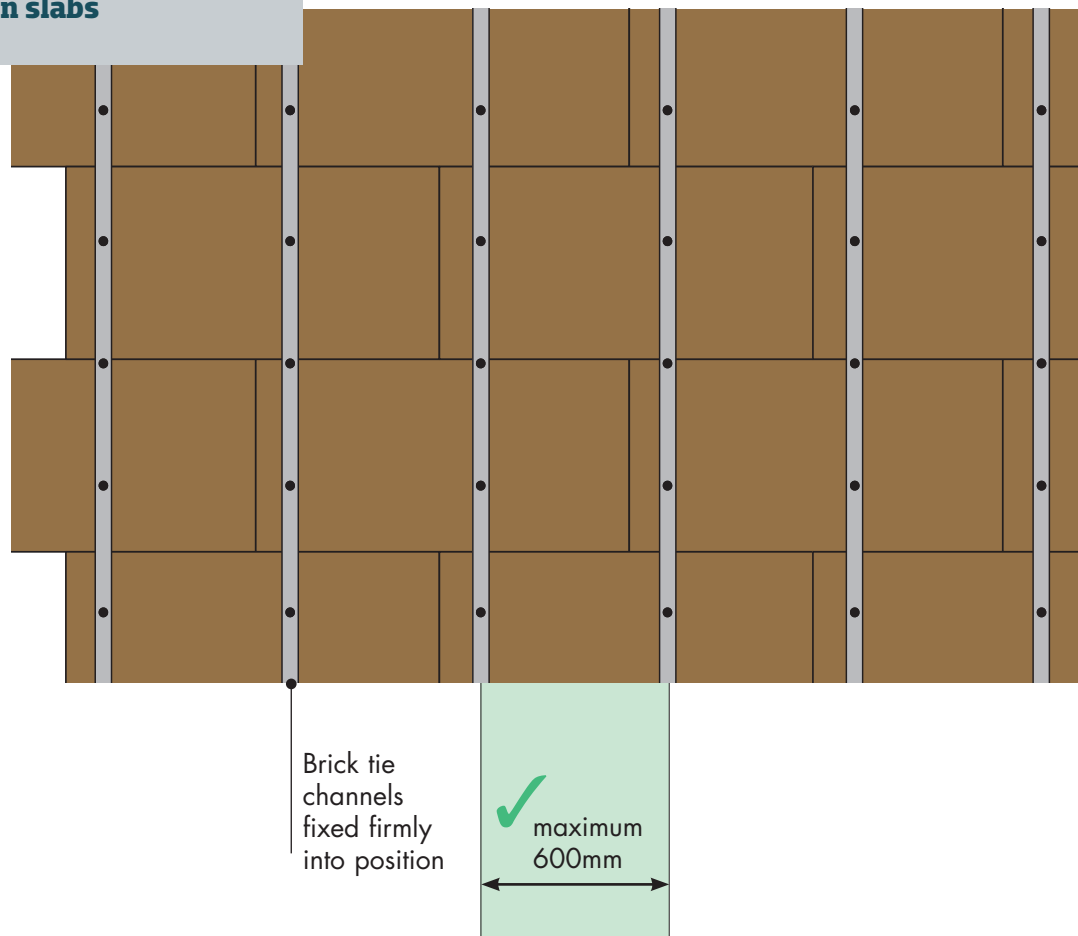
## LAYOUT

Before installation of Rocksilk® RainScreen FFCB can commence, Rocksilk® RainScreen Slab sheathing insulation should be installed as per the installation instructions, available on our website.

- Slabs should be installed with joints staggered by a minimum 100mm
- Slabs should be tightly butted so there are no gaps
- Slabs should be in intimate contact with the substrate
- If brick tie channels are used, slabs should be installed in a landscape orientation



## ? To avoid gaps between slabs

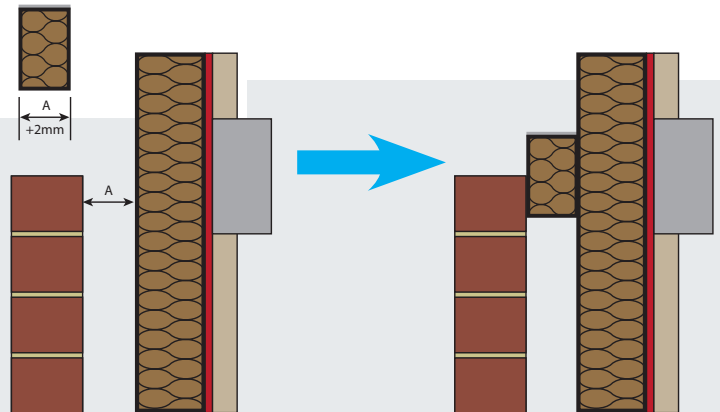




# PLACEMENT

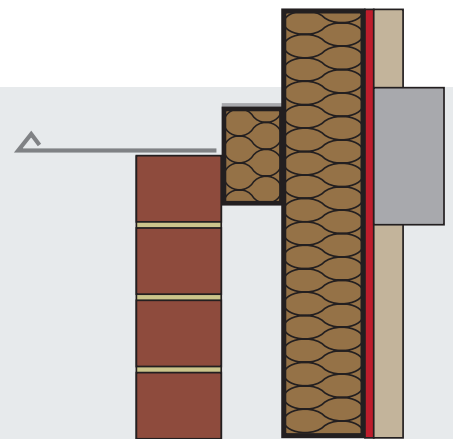
## COMPRESSION

Rocksilk® RainScreen FFCBs are designed to be friction fitted in place before the support fixing is positioned. Slabs should be 2mm wider than the residual cavity and installed from above to fit snugly between the masonry outer leaf and Rocksilk® RainScreen Slab sheathing insulation.



## POSITION IN CAVITY

Rocksilk® RainScreen FFCBs should be installed so that when friction fitted into the residual cavity they sit half way down the depth of the barrier against the brickwork. This allows for the support fixing to be installed through the centre of the barrier.



## BARRIER ORIENTATION

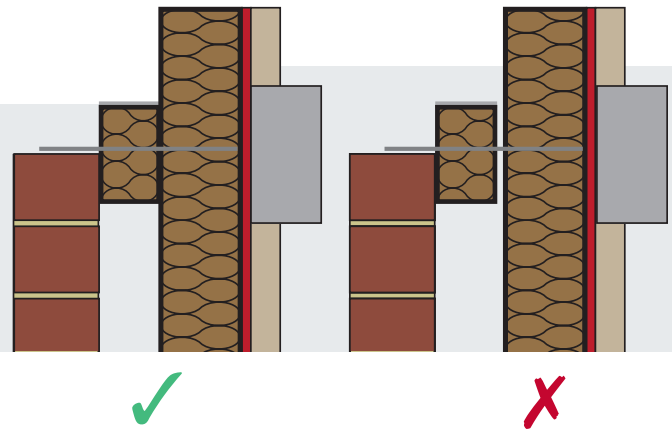
Rocksilk® RainScreen FFCBs should be installed so that the foil face is facing up into the cavity when installed as a horizontal cavity barrier, or to either side facing the cavity when installed as a vertical barrier. This ensures the rock mineral wool fibres are oriented correctly so the barrier can perform as specified.



# PLACEMENT

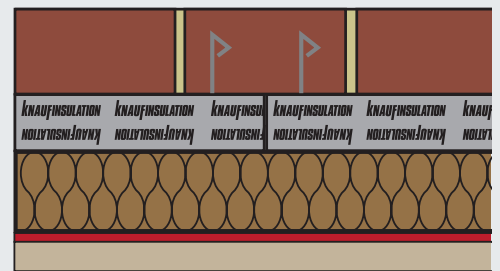
## INTIMATE CONTACT WITH SUBSTRATE

Rocksilk® RainScreen FFCBs should be in intimate contact with both substrates, being the masonry façade and Rocksilk® RainScreen Slab. The nature of the material lends itself to accommodate minor irregularities in the surface of the substrate.



## INTIMATE CONTACT WITH EACH OTHER

Rocksilk® RainScreen FFCBs should be tightly butted together such that there are no gaps between the barriers.

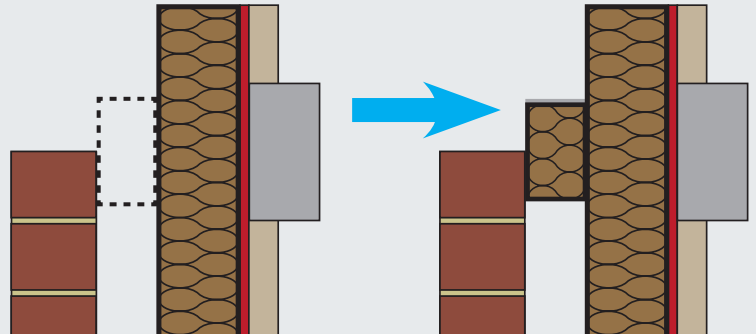


# INSTALLATION SEQUENCE

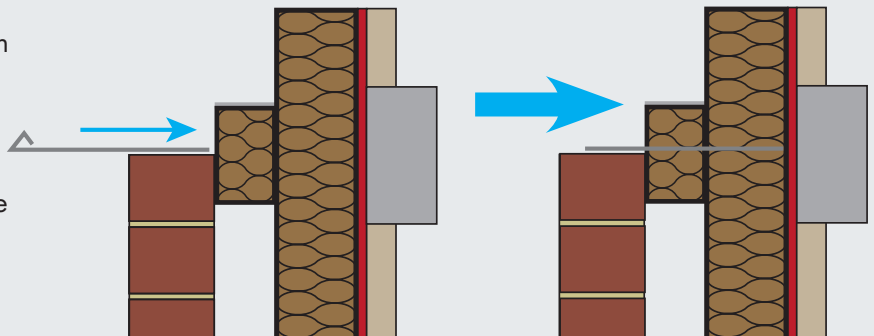
## HORIZONTAL BARRIER

Start by laying the brickwork outer leaf up to the level where the middle of the Rocksilk® RainScreen FFCBs will be sat. This is to ensure there is enough contact between the barrier and Rocksilk® RainScreen Slab to allow a friction fit of the barrier into its final position.

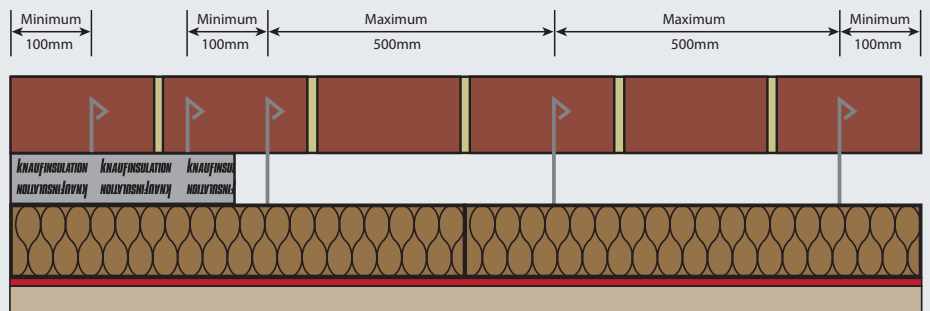
Next place the Rocksilk® RainScreen FFCB in position such that it is sat with the middle of the barrier in line with the top layer of brickwork.



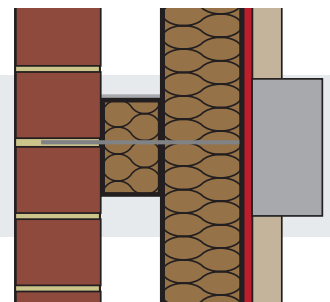
The support fixing should now be pressed through the Rocksilk® RainScreen FFCB and Rocksilk® RainScreen Slab so that it touches against the sheathing board and should sit flush on top of the top layer of bricks. Rotate the fixings so that the triangle section is flat against the brickwork. The support fixing should be embedded to a minimum of 50mm into the mortar bed.



Fixings should be installed at maximum 500mm centres, ensuring at least 3 per 1200mm length of barrier. The end fixings should be at a minimum 100mm from the edge of the barrier. More than 3 fixings may also be used depending on preference.



Continue laying the brickwork until the Rocksilk® RainScreen FFCB is completely hidden. The end of the support fixing should be embedded into the mortar joints.

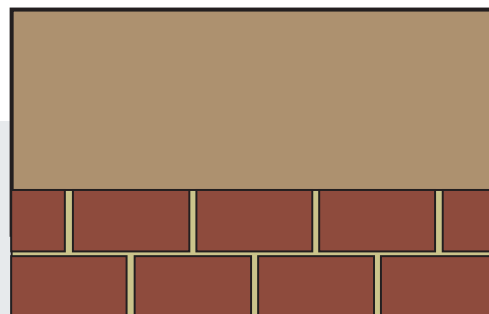




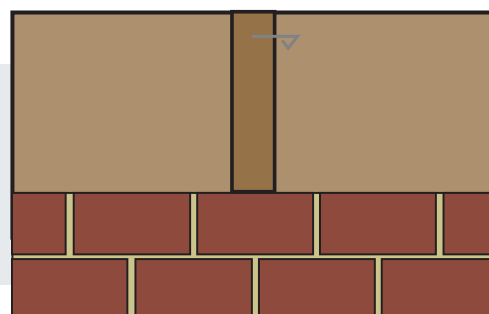
# INSTALLATION SEQUENCE

## VERTICAL BARRIER

Install the first two courses of bricks at floor level, or above a horizontal cavity barrier, so that there are two courses for the Rocksilk® RainScreen FFCB to be fitted behind.

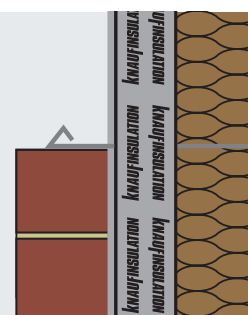


The Rocksilk® RainScreen FFCB should be placed behind the brickwork. A temporary fixing can be placed at the top of the barrier to hold it against the Rocksilk® RainScreen Slab while the rest of the brick façade is being constructed. A DPC should be placed between the vertical cavity barrier and masonry outer leaf.



A support fixing can now be pushed through the Rocksilk® FFCB, DPC and Rocksilk® RainScreen Slab so that it sits against the sheathing board and sits halfway through the depth of the brick.

The support fixing should be embedded to a minimum of 50mm into the mortar bed.

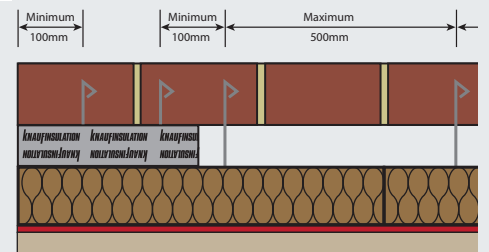


Fixings should be installed such that there are 3 fixings per barrier. Ensure the end fixings are no more than 100mm away from the edge of the barrier.

# CUTTING

## FULL BARRIER

Areas that cannot accept a full barrier can be filled using a smaller section that is cut slightly oversize by approximately 5mm and then compression fit into place. There should be a minimum of 2 fixings per slab section at a maximum of 500mm centres and no closer than 100mm to a barrier edge.



## CUT NEATLY WITH A SHARP INSULATION SAW/KNIFE

Cut neatly with a fine serrated saw or a large bladed knife.

? Gives a factory quality cut and prevents tearing

✓ Use insulation saw or knife

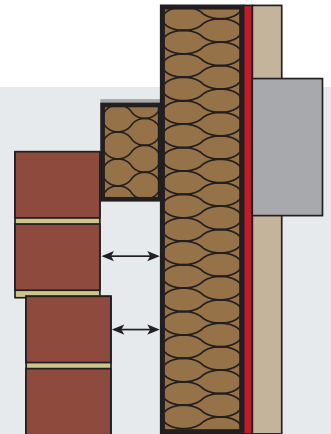
✗ Rip using coarse blade



# DETAILING CONSIDERATIONS

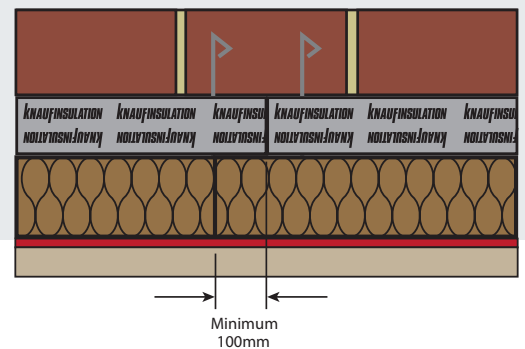
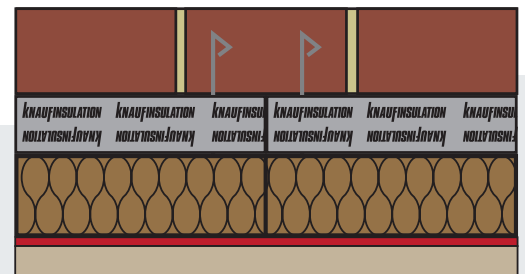
## CAVITY WIDTH

Ensure a consistent cavity width is maintained throughout the construction, to avoid steps in the brickwork where the Rocksilk® RainScreen FFCB is positioned. The cavity should be constructed to fit the designed cavity width and therefore the barrier width.



## COINCIDENTAL JOINTS

Ensure there is no coincidental joints between Rocksilk® RainScreen Slab and the Rocksilk® RainScreen FFCB, ensuring joints are staggered by minimum 100mm.



## BRICK TIE CHANNELS

Brick tie channels used to secure the Rocksilk® RainScreen Slab back to the building substrate should not penetrate through the Rocksilk® RainScreen FFCB. Should it be necessary, the brick tie channel should be trimmed to allow for the installation of the barrier.

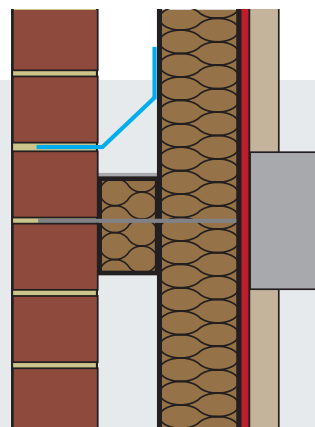




# DETAILING CONSIDERATIONS

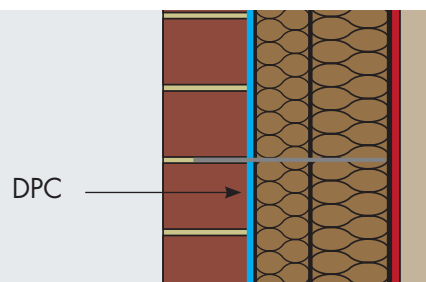
## CAVITY TRAYS

Rocksilk® RainScreen FFCBs do not act as a cavity tray. Cavity trays should be installed above the barriers in the course of brickwork directly above the barriers so that moisture does not accumulate on the top of the barrier.



## DPC'S

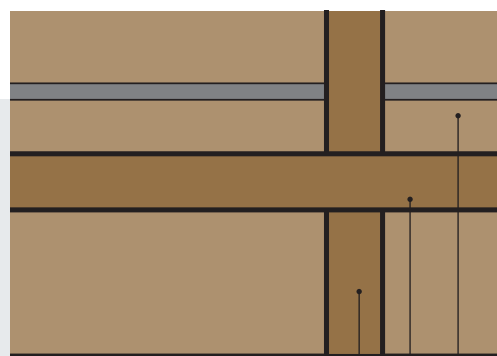
A vertical damp proof course should be installed between the face of the vertical Rocksilk® RainScreen FFCB and the outer leaf of masonry so that moisture cannot pass from the outer to inner leaf.



## INTERACTIONS

Where vertical and horizontal Rocksilk® RainScreen FFCBs interact with the cavity trays, it is recommended that the barriers remain continuous, and the cavity tray is broken.

The horizontal Rocksilk® RainScreen FFCB should remain continuous with the vertical Rocksilk® RainScreen FFCB, butting tightly to them.



Rocksilk® RainScreen Slab

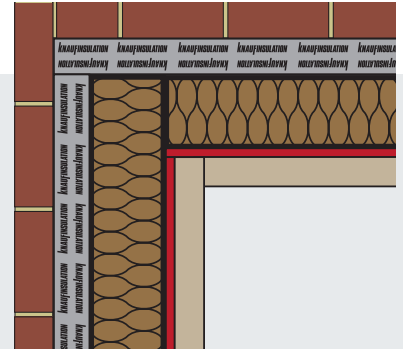
Rocksilk® RainScreen FFCB

Cavity tray

# DETAILING CONSIDERATIONS

## CORNERS

Rocksilk® RainScreen FFCBs should be cut neatly around corners so that they butt against each other and there are no gaps at joints.



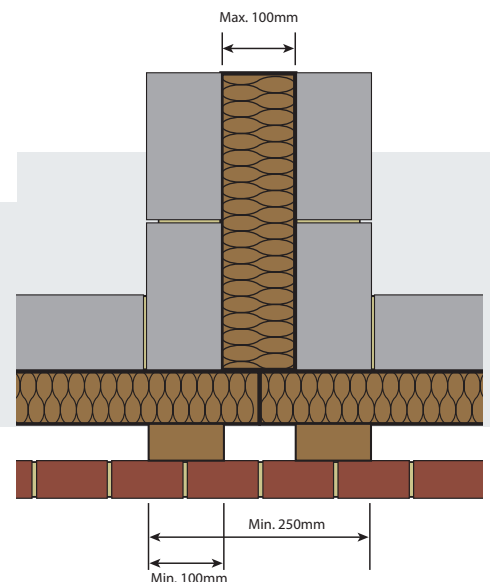
## FIXINGS

Rocksilk® RainScreen FFCB Ties should be pushed through the Rocksilk® RainScreen Slab so that they touch the sheathing board but do not need to be fixed directly to it. They should then be sat directly into the mortar joints of the brickwork which holds the barriers in place in the event of a fire. The support fixing should be embedded to a minimum of 50mm into the mortar bed.



## PARTY WALLS

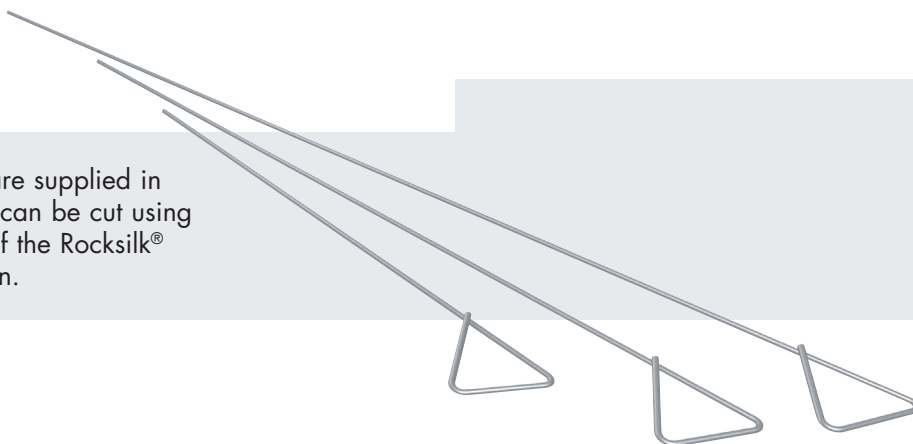
Rocksilk® RainScreen FFCB can be used as a cavity barrier for party walls where building regulations require a mineral wool cavity closer for acoustic, fire safety and thermal reasons. In this application the barrier is face-fixed to a continuous layer of Rocksilk® RainScreen Slab and acts as an effective edge seal minimising air and heat loss.



# FIXINGS

## LENGTHS

Rocksilk® RainScreen FFCB fixings are supplied in 200 / 300 or 400mm lengths and can be cut using tin snips or pliers to suit the depth of the Rocksilk® RainScreen Slab sheathing insulation.





# MAINTENANCE

## CONSTRUCTION REPAIRS

In the event of small repairs being needed on site, we recommend the replacement of full lengths of Rocksilk® RainScreen FFCB wherever possible. Damaged Rocksilk® RainScreen FFCBs should not be installed.



## CONTACTS

### Customer Service (sales)

Tel: 01744 766 766  
email: [sales.uk@knaufinsulation.com](mailto:sales.uk@knaufinsulation.com)

### Technical Support Team

Tel: 01744 766 666  
email: [technical.uk@knaufinsulation.com](mailto:technical.uk@knaufinsulation.com)



**Knauf Insulation Ltd** PO Box 10, Stafford Road, St.Helens, Merseyside, WA10 3NS. UK

For more information please visit [knaufinsulation.co.uk](http://knaufinsulation.co.uk)

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Extreme caution was observed when putting together and processing the information, text and illustrations in this document. Nevertheless, errors cannot be completely ruled out. The publisher and editors cannot assume legal responsibility or any liability for incorrect information and consequences thereof. The publisher and editors will be grateful for improvement suggestions and details of possible errors pointed out. For the most up-to-date document versions and product information, please always refer to our website.

challenge.  
create.  
care.