



KNAUFINSULATION

ROCKSILK® RAINSCREEN OSCB
Installation guide

knaufinsulation.co.uk

What you need to know

Build on us.

Contents

Safety considerations	4
Typical systems	5
Pre-installation considerations	6
Installation sequence	7
Cutting	9
Detail considerations	10
Fixings	11
Maintenance	12

Safety considerations

STORAGE

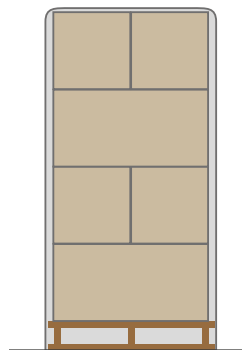
Rocksilk® RainScreen OSCBs should be stored properly and handled in such a way as to ensure that they are clean and undamaged.

Rocksilk® RainScreen OSCBs are supplied in cardboard boxes on a pallet, 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 OSCBs should not be left permanently exposed to the elements.

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



Slabs protected from weathering potential



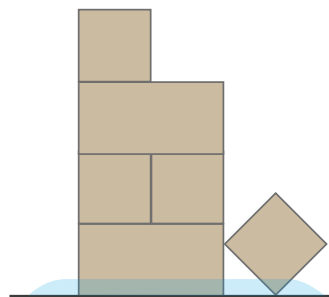
HANDLING

Rocksilk® RainScreen OSCBs are easy to handle; care should be exercised to avoid crushing the edges or corners or damaging the shrink wrap or intumescent strip. If damaged, the product should be discarded. Damaged, contaminated or wet product must not be used.

During construction exposed areas of construction 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.



Slabs exposed to the elements

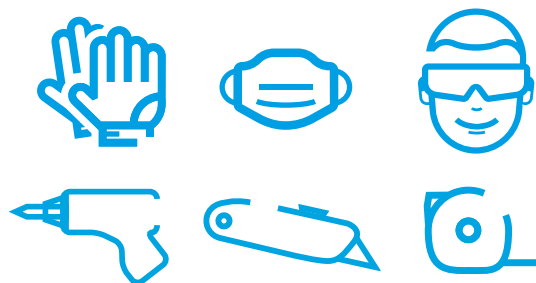


SAFETY EQUIPMENT AND TOOLS

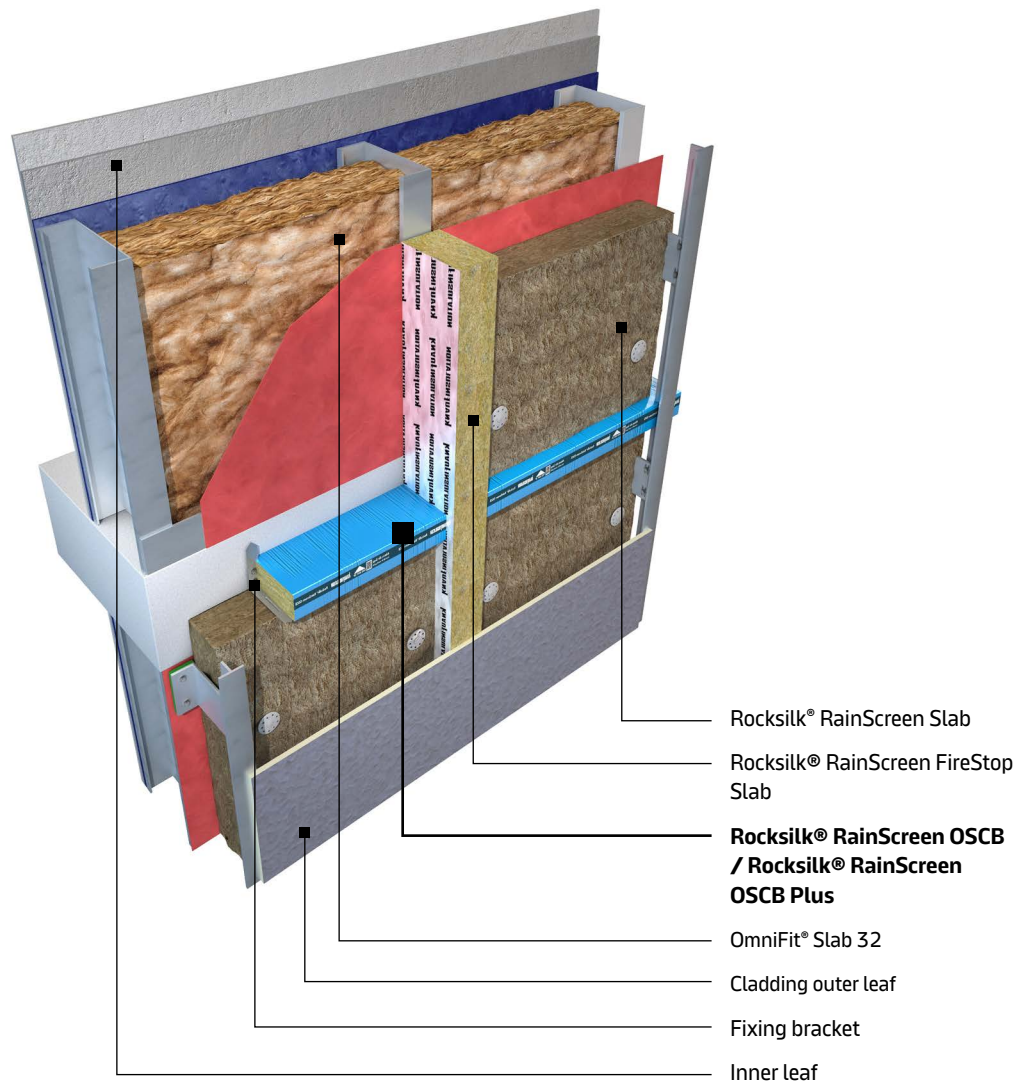
It is recommended that the following Personal Protective Equipment and tools should be used while handling the product:

PPE: Gloves, dust mask (FFP1 minimum), safety glasses

Tools: Drill, knife or fine-toothed saw, tape measure



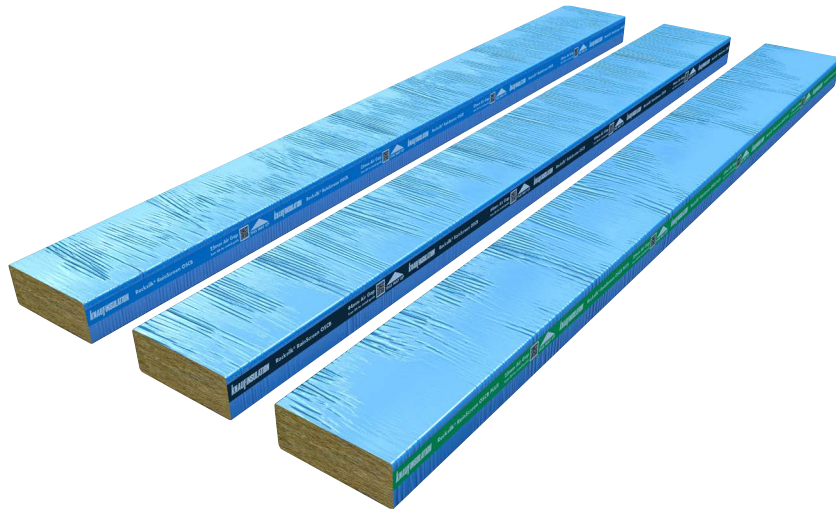
CLADDING OUTER LEAF



Pre-installation considerations

INSTALLED WITH INTUMESCENT FACING OUTWARDS

Rocksilk® RainScreen OSCBs should be installed with the intumescent strip and the product label facing into the residual cavity.



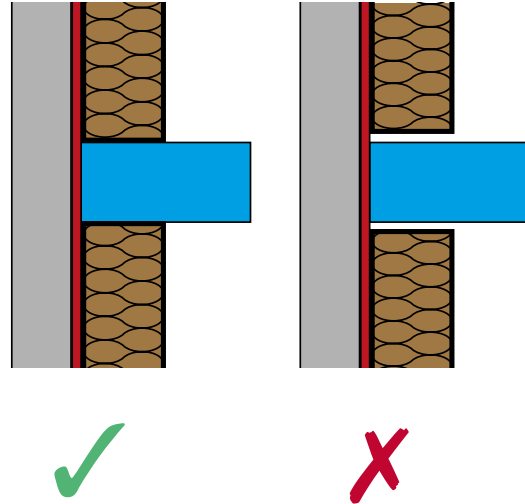
DO NOT REMOVE THE SHRINK WRAP

The shrink wrap on Rocksilk® RainScreen OSCBs are designed to make the product more robust to handle, keep the intumescent strip in place, and provide a water resistant layer to the product to protect against the elements when exposed on site.

Removing this shrink wrap will compromise the product and it should be disposed of.

INSULATION AND BARRIERS TO BE IN CONTACT WITH EACH OTHER

Installed such that they are tightly butted together so there are no gaps between the Rocksilk® RainScreen Slab and Rocksilk® RainScreen OSCBs.

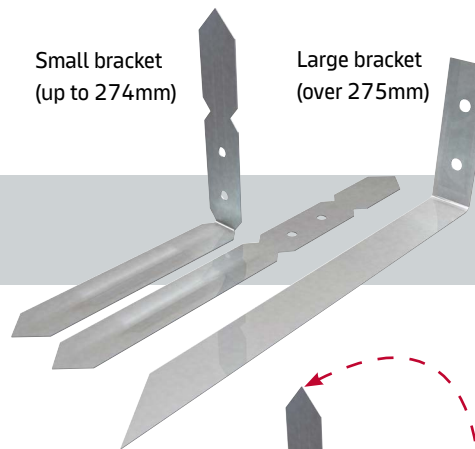


Installation sequence

KNAUFINSULATION

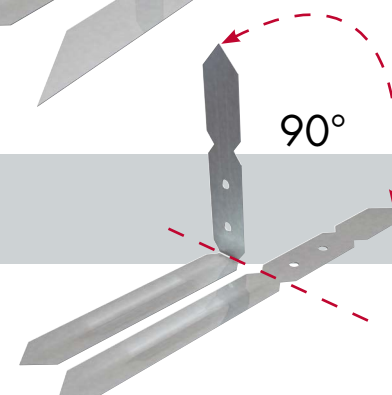
1

Ensure you have the correct brackets for the cavity barrier dimensions – small brackets are used for barriers up to 274mm, and large brackets for cavities 275mm and above.



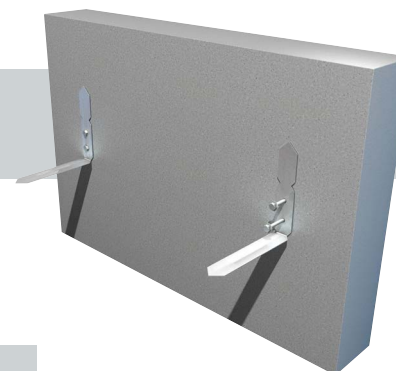
2

If using the small bracket, bend the bracket so that either the large or small pointed section is at 90 degrees depending on the depth of the barrier. Use the small leg if the barrier is up to 90mm and the large leg if the barrier is 91-274mm.



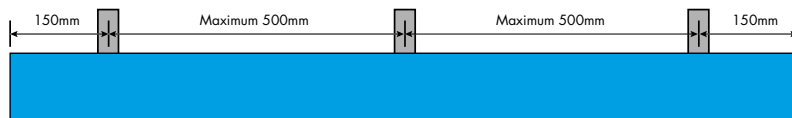
3

Once bent, the bracket can be fixed back to the inner leaf, using at least two bolts to provide a secure fixing. Ensure non-combustible fixings suitable for the substrate are used. For more information please consult fixing manufacturers.



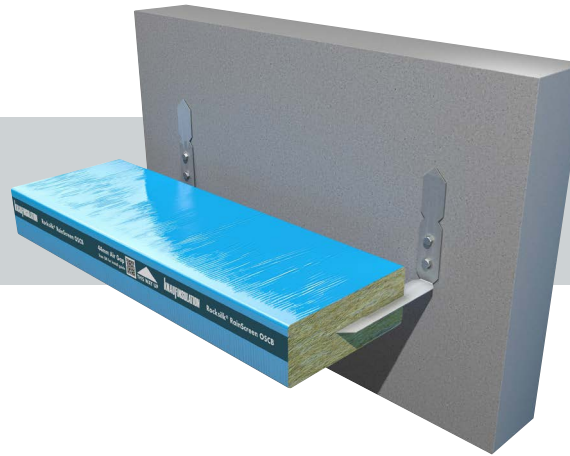
4

Brackets should be positioned at maximum 500mm centres, approximately 150mm in from each end. Cut areas of slab should use two brackets if larger than 200mm long, and one bracket located centrally if less than 200mm long. Do not butt multiple short pieces together.



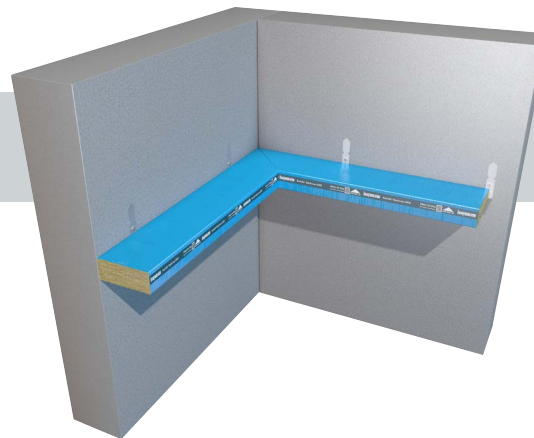
5

Push the cavity barrier into position, ensuring it is positioned level with the bracket roughly in the centre of the barrier. Ensure the back face of the barrier is tightly fitted against the inner leaf with no gaps running between them.



6

At the end of a run of barriers, or at corners, the barrier should butt up to the outer leaf.



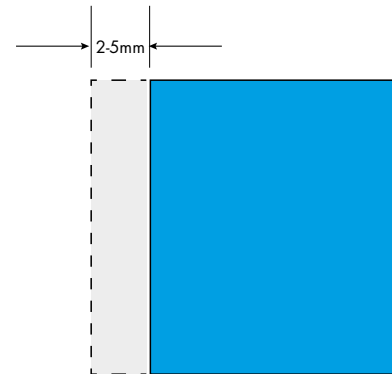
Cutting

CUT OVERSIZE AND COMPRESS

Barriers should be cut oversize by approximately 2-5mm to allow for compression between joints and at the end of runs.



To avoid gaps between slabs that could compromise the fire safety performance



CUT NEATLY WITH A SHARP INSULATION SAW/KNIFE OR CIRCULAR SAW

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



Gives a factory quality cut and prevents tearing



Use insulation saw or knife



Rip using coarse blade

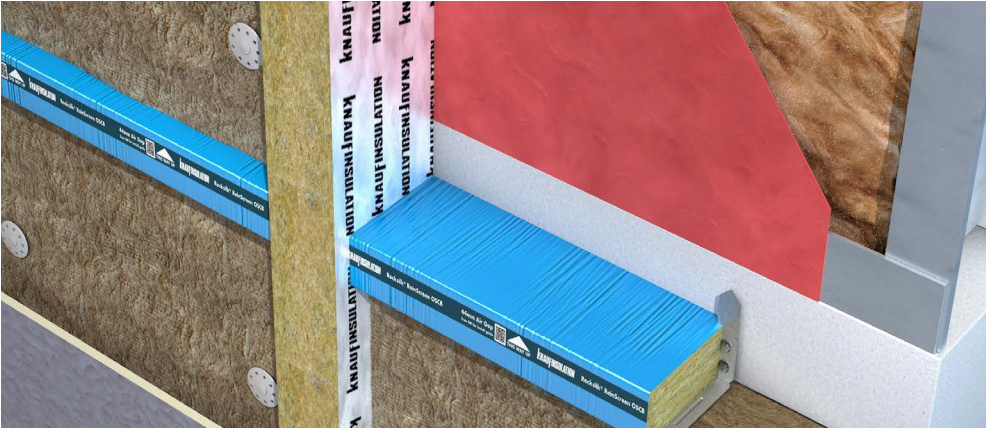
ENSURE A SQUARE CUT

Ensure Rocksilk® RainScreen OSCBs are cut with edges that are square when butted together. Gaps between barriers can reduce performance and risk impacting the integrity of the barriers during a fire.



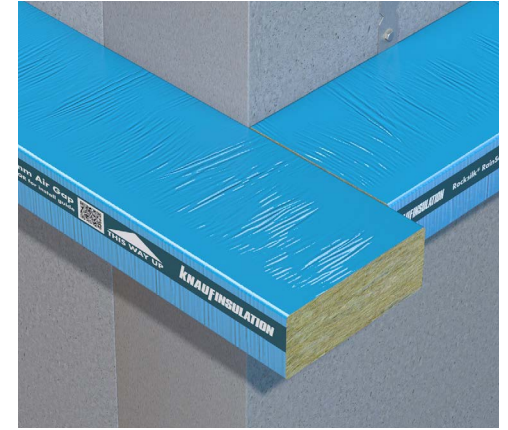
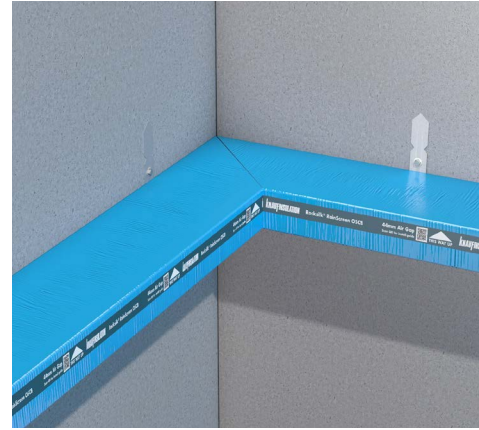
INTERACTION WITH ROCKSILK® RAINSCREEN FIRESTOP SLAB

When Rocksilk® RainScreen OSCBs and Rocksilk® RainScreen FireStop Slab meet at junctions, the Rocksilk® RainScreen FireStop Slab should remain uninterrupted, with the Rocksilk® RainScreen OSCBs tightly abutting it.



CORNERS

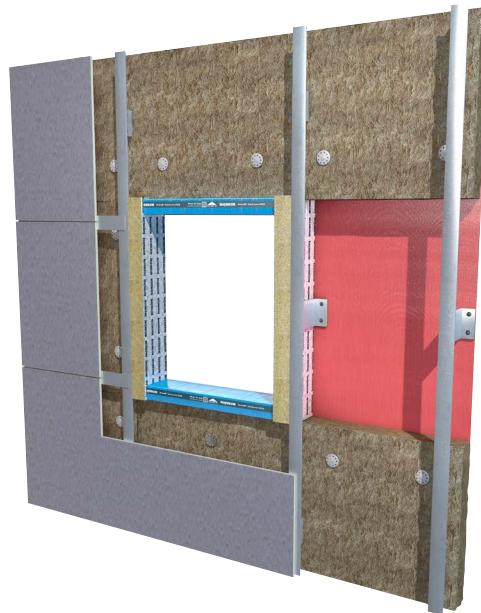
At external corner details, one run of Rocksilk® RainScreen OSCBs should run completely up to the external leaf, ensuring a tight seal. At internal corners the barriers should be mitred so they fit snugly into the corner.



WINDOWS

Around window details, Rocksilk® RainScreen OSCBs should be used horizontally at the top and bottom of the window. Rocksilk® RainScreen FireStop Slab should be used vertically at either side of the window.

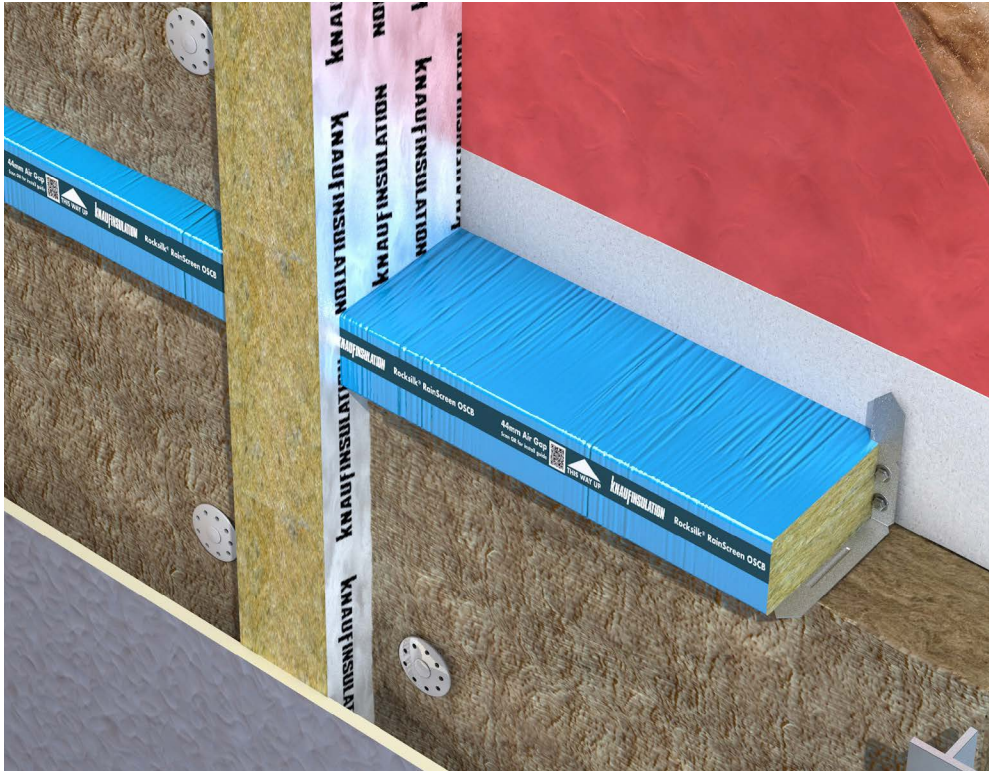
The ends of the Rocksilk® RainScreen FireStop Slab should always meet the Rocksilk® RainScreen Slab above and below the window. The horizontal barrier should always be contained within the vertical barriers.



Detailing considerations

RESIDUAL CAVITIES

For Rocksilk® RainScreen OSCB25 and Rocksilk® RainScreen OSCB25 Plus the maximum air gap between the barrier and the external cladding must be 25mm. For Rocksilk® RainScreen OSCB44 the maximum air gap must be 44mm.



SHEATHING INSULATION

Rocksilk® RainScreen OSCBs have been specifically tested and certified with Rocksilk® RainScreen Slabs. It can not be installed with any other types of sheathing insulation. The Rocksilk® RainScreen OSCBs should remain unbroken with the Rocksilk® RainScreen Slabs butting up to it.

CLADDING RAILS

Ensure the intumescent on Rocksilk® RainScreen OSCBs are clear to expand right up to the rear of the cladding so that a tight seal can be formed in the event of a fire.

SUBSTRATES

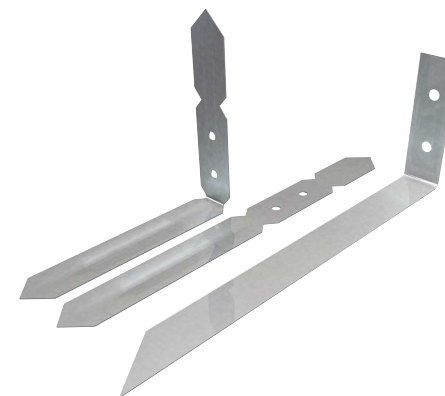
Rocksilk® RainScreen OSCBs are suitable for use with concrete or masonry inner leaves.



BRACKETS

Rocksilk® RainScreen OSCBs are supplied with complimentary fixings brackets, they should be installed following the table below:

Product	Barrier Width (mm)	Cavity Width (mm)	Bracket Type	Bracket orientation	Spacings
Rocksilk® RainScreen OSCB25 and Rocksilk® RainScreen OSCB25 Plus	Up to 90	Up to 115	Small	65mm leg outwards	<ul style="list-style-type: none"> 500mm centres Maximum 150mm from end of barriers Cut barriers under 200mm use 1 bracket Cut barriers above 200mm use 2 brackets
	91-274	116-299	Small	160mm leg outwards	
	275+	300+	Large	n/a	
Rocksilk® RainScreen OSCB44	Up to 90	Up to 124	Small	65mm leg outwards	
	91-274	125-318	Small	160mm leg outwards	
	275+	319+	Large	n/a	



BRACKET FASTENERS

Brackets should be fixed back to the inner leaf using suitable non-combustible fasteners such as Fixfast HFT-SS6.3. Please consult fixing manufacturers for more information

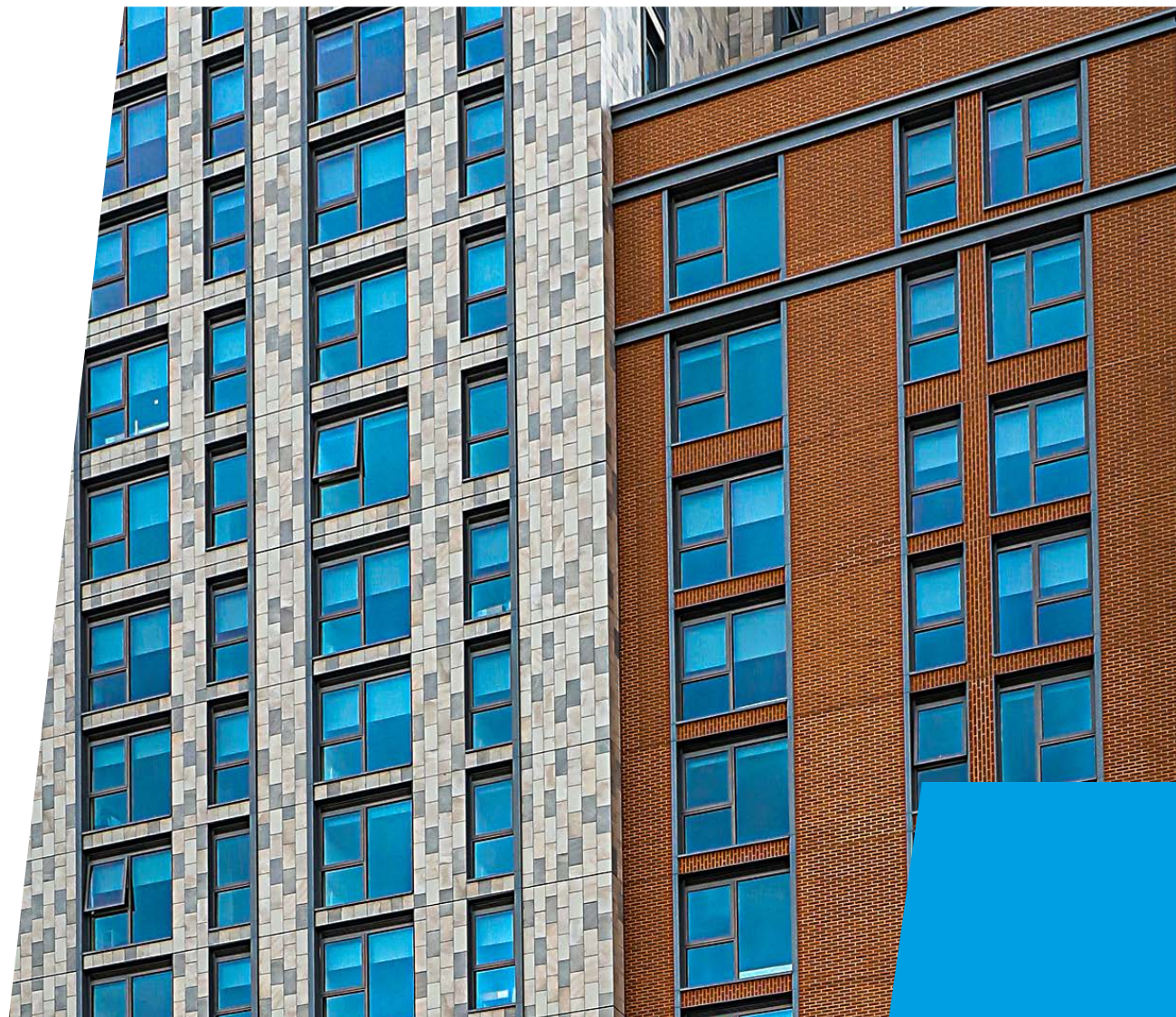


CONSTRUCTION REPAIRS

In the event of small repairs being needed on site, always replace the full barrier. This reduces the number of joints between the barriers, reducing the chances of unwanted air gaps.



To avoid gaps between slabs that could compromise the fire safety performance



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For more information please visit

knaufinsulation.co.uk/rainscreen-solutions

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