

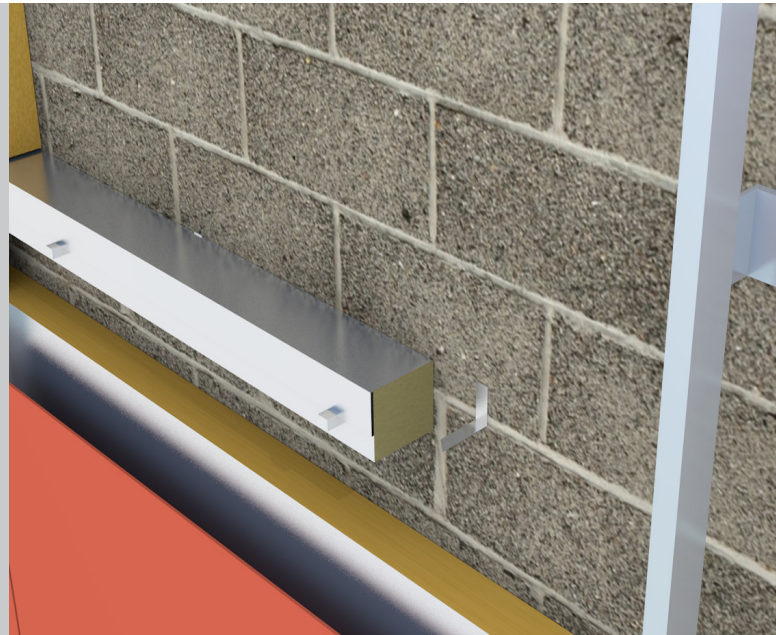
# Rainscreen Barrier



cavity fire barrier for  
rainscreen cladding applications

## key features

- » Up to two hours fire integrity
- » Provides a 25mm airspace behind rainscreen cladding
- » Foil faced to provide a smoke barrier
- » Suitable for horizontal applications
- » Available to suit cavity widths from 75mm to 300mm



## Application

ARC Rainscreen Barrier has been designed to provide a two hour fire rating where continuous vertical airflow is required behind a rainscreen cladding system.

## Installation

The ARC Fixing Spike is fitted to the external surface of the inner blockwork, onto which the ARC Rainscreen Barrier is then impaled. An ARC Spacer Spike is fitted to the external surface of the Rainscreen Barrier below the intumescent strip. The Spacer Spike ensures the 25mm airspace is maintained along the length of the fire break.

## Fire Properties

ARC Rainscreen Barrier has been fire tested at Chiltern International Fire, achieving up to two hours fire integrity when fitted between blockwork and rainscreen cladding. Tests were carried out in accordance with BS EN 1363-1:1999. Specifiers must ensure the rainscreen cladding and its support system are suitable for use with a fire barrier for the length of fire integrity and insulation required. Particular attention must be paid to any possible deflection or distortion which could cause gaps to form between the cladding and a fire barrier. Chiltern International Fire certificate number: IF12020.

Where usage falls outside of this scope, for example when used with an internal metal frame system, performance of the fire barrier will depend upon the structural integrity and fire performance of the surrounding construction.

Specifiers must ensure any part of the construction that makes up the internal or external leaf of the wall, including support systems, are suitable for use with a fire barrier for the length of fire and insulation integrity required. Particular attention must be paid to any possible deflection or distortion which could cause gaps to form between the material and a fire barrier.

Don't take our  
word for it, see our  
certification...



Assessed to ISO 9001 & ISO 14001  
BRE Certificate No. 1227



## Rainscreen Barrier

### Fire Properties (cont.)

In the event of a fire, ARC Building Solutions Ltd cannot accept liability for failure where usage is outside of the standard application, including but not limited to, where deflection or distortion has allowed gaps to form around the barrier, or where the barrier is not fitted in accordance with the manufacturer's guidelines.

### Standards

ARC Rainscreen Barrier is manufactured using rockfibre mineral wool which achieves a fire classification of Euroclass A1 as defined in BS EN 13501-1, and conforms to BS EN 13162 and EN16001 Energy Management Systems.

ARC's rockfibre mineral wool insulation has a thermal conductivity of 0.035W/mK.

### Storage and Packaging

ARC Rainscreen Barriers are supplied in polythene packs which are designed for transporting and protecting the products. It is not recommended that the packs are stored in direct sunlight. When storing the barriers for longer periods of time it is recommended that the product should be stored indoors, or under cover.

### Standard Dimensions

Product Code	Suitable for Cavity Width	Dimensions	Fire Rating
RSB75	75mm	50 x 100 x 1200mm	2 hrs
RSB85	85mm	60 x 100 x 1200mm	2 hrs
RSB100	100mm	75 x 100 x 1200mm	2 hrs
RSB125	125mm	100 x 100 x 1200mm	2 hrs
RSB150	150mm	125 x 100 x 1200mm	2 hrs
RSB175	175mm	150 x 100 x 1200mm	2 hrs
RSB200	200mm	175 x 100 x 1200mm	2 hrs
RSB225	225mm	200 x 100 x 1200mm	2 hrs
RSB250	250mm	225 x 100 x 1200mm	2 hrs
RSB275	275mm	250 x 100 x 1200mm	2 hrs
RSB300	300mm	275 x 100 x 1200mm	2 hrs

Can't find your size? ARC Rainscreen Barrier can be manufactured to suit any cavity width between 75 and 300mm. Contact us for more information.

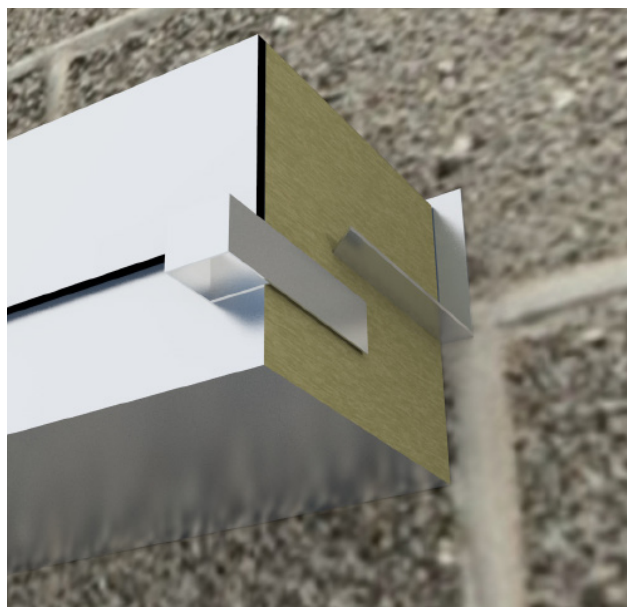
### Environment

No CFCs or HCFCs are involved in the manufacturing process of ARC's rockfibre mineral wool insulation. The material presents no known threat to the environment and is classed as ODP and GWP zero.

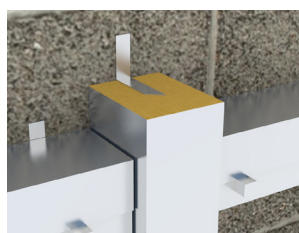
ARC Rainscreen Barrier has a Green Guide rating of A+.

### Health and Safety

ARC Building Solutions has an approved Health and Safety Policy and is committed to working and supplying products safely. ARC's rockfibre mineral wool is not classed as a possible human carcinogen. We have assessed products as required by Substances Hazardous to Health Regulations (COSHH). An ARC COSHH data sheet is available and can be downloaded from ARC's website.



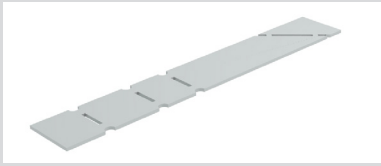
Above: ARC Spacer Spike fitted to the external surface of the ARC Rainscreen Barrier



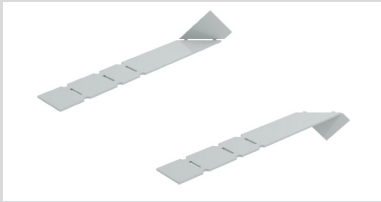
ARC Rainscreen Barrier can be used in conjunction with ARC Fire Stop Slab vertically. Vertical barriers fully fill the cavity while horizontal Rainscreen Barriers provide a fixed 25mm airspace. The provided ARC Spacer Spikes ensure the correct airspace is maintained during fitting.



### Spacer Spike Fitting Instructions



The ARC Spacer Spike has been developed to provide a consistent 25mm breathing space between rainscreen cladding and the ARC Rainscreen Barrier.



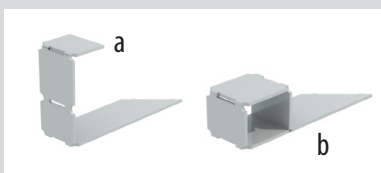
Simply bend the spike back and forth at the break-off point.



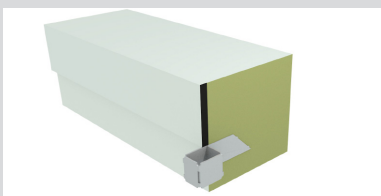
The spike will break and the unused part which has been removed can now be discarded.



Now bend the spike into an 'L' shape at the first bend point.

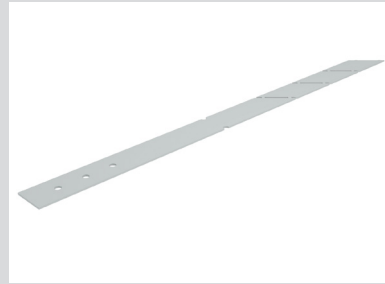


(a) Now bend the spike into a 'U' shape at the third bend point. Then complete the spike by bending at the second bend point as shown. (b)

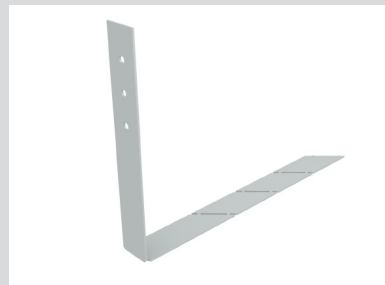


Push the Spacer Spike into the Rainscreen Barrier so that it tucks in underneath the intumescent strip. The external cladding should butt up to the Space Spike providing the required breathing space.

### Fixing Spike Fitting Instructions



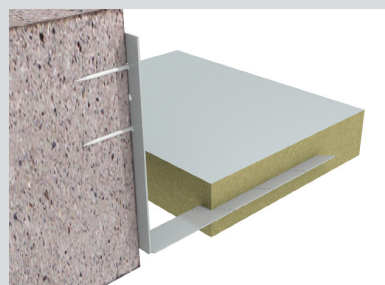
Two spikes are available: small for up to 160mm cavity and large for sizes above this.



Now bend the spike into an 'L' shape at the fold point (a small 'U' shape cutout on each side).



Once folded the spike can be fixed to the block or slab, either to the top or face. It is recommended to use at least two fixing points to ensure strength.



Now impale the insulation onto the spike as can be seen in this cross-section. Please note two spikes should be used for each piece, approx. 150mm inwards from each end.