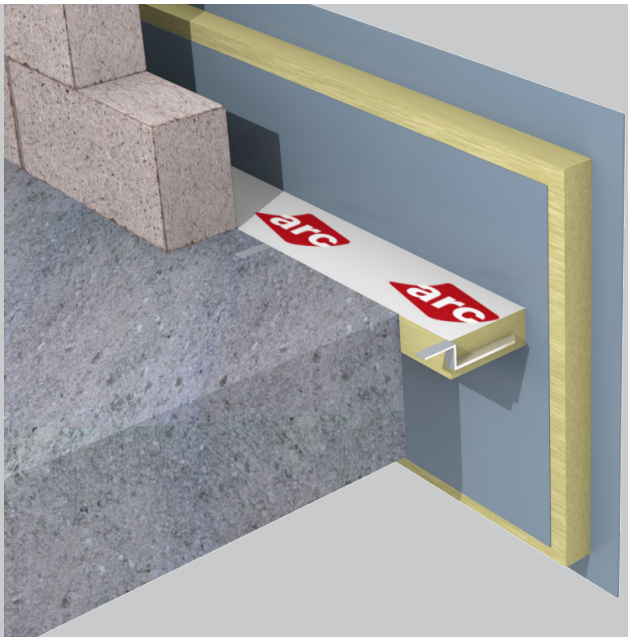
Curtain Wall Barrier

cavity fire barrier
for use behind curtain wall cladding

key features

- Up to two hours fire integrity
- Foil faced to provide a smoke barrier
- Cut to size on site or factory finished
- Available to suit cavity widths up to 300mm



Application

ARC Curtain Wall Barrier provides up to two hours fire integrity at floor levels where curtain wall cladding has been used on the outside of the building. Manufactured from rockfibre mineral wool insulation with a class '0' reinforced aluminium foil facing to both sides offering excellent resistance to smoke.

Installation

The ARC Fixing Spike is fitted to the external surface of the inner leaf. The ARC Curtain Wall Barrier is then impaled onto the spike. A compression fit is not essential but it is required to have a snug fit within the cavity space, factory finished sizes are supplied with a 5mm compression fit. Any site inaccuracies or deflection need to be sealed with a suitable intumescent sealer.

Fire Properties

ARC Curtain Wall Barrier has been assessed by Chiltern International Fire Research, achieving 2 hours fire integrity. The barrier is certified for installation between concrete floor slab or blockwork, and rockfibre insulated fire rated curtain wall cladding. Specifiers must ensure the curtain wall 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. Certifire scope: CF5402

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 integrity and insulation 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

registered LABC

certifire

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.

Storage and Packaging

ARC Curtain Wall 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.

Standards

The rock mineral wool used in the manufacture of ARC Curtain Wall Barrier is manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and
ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

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

Environment

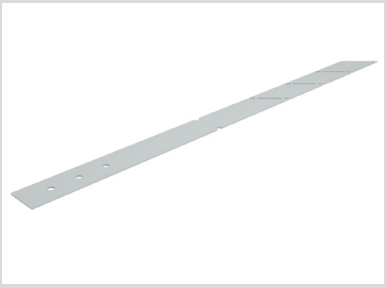
No CFCs or HCFCs are involved in the manufacturing process of ARC's rockfibre mineral wool insulation. The material presents no known threat to the environment and is classed as ODP and GWP zero.

ARC Curtain Wall Barrier has a Green Guide rating of A+.

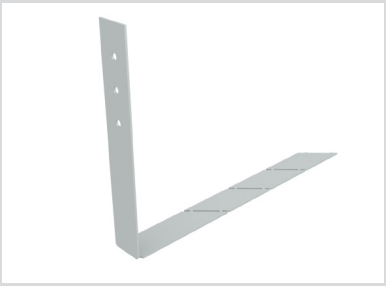
Health and Safety

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.

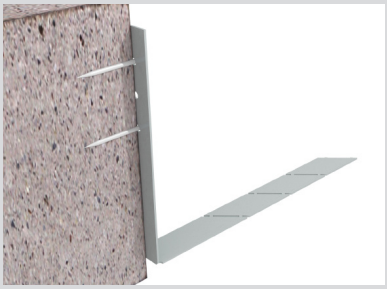
Fixing Spike Fitting Instructions



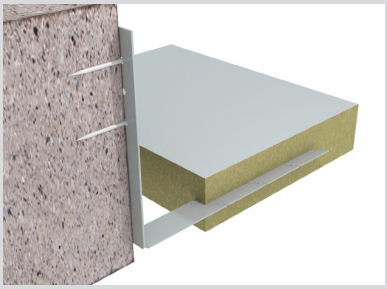
Two spikes are available: small for up to 160mm cavity and large for sizes above this.



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. 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.

Standard Dimensions: Full Slab

Product Code	Dimensions	Fire Rating
FFS600/100	1200x600x100mm	2 hrs

Standard Dimensions: Cut Pieces

Product Code	Suitable for Cavity Width	Dimensions	Fire Rating
FFB50	50mm	55 x 100 x 1200mm	2 hrs
FFB60	60mm	65 x 100 x 1200mm	2 hrs
FFB70	70mm	75 x 100 x 1200mm	2 hrs
FFB80	80mm	85 x 100 x 1200mm	2 hrs
FFB90	90mm	95 x 100 x 1200mm	2 hrs
FFB100	100mm	105 x 100 x 1200mm	2 hrs
FFB110	110mm	115 x 100 x 1200mm	2 hrs
FFB120	120mm	125 x 100 x 1200mm	2 hrs
FFB130	130mm	135 x 100 x 1200mm	2 hrs
FFB140	140mm	145 x 100 x 1200mm	2 hrs
FFB150	150mm	155 x 100 x 1200mm	2 hrs
FFB160	160mm	165 x 100 x 1200mm	2 hrs
FFB170	170mm	175 x 100 x 1200mm	2 hrs
FFB180	180mm	185 x 100 x 1200mm	2 hrs
FFB190	190mm	195 x 100 x 1200mm	2 hrs
FFB200	200mm	205 x 100 x 1200mm	2 hrs
FFB210	210mm	215 x 100 x 1200mm	2 hrs
FFB220	220mm	225 x 100 x 1200mm	2 hrs
FFB230	230mm	235 x 100 x 1200mm	2 hrs
FFB240	240mm	245 x 100 x 1200mm	2 hrs
FFB250	250mm	255 x 100 x 1200mm	2 hrs
FFB260	260mm	265 x 100 x 1200mm	2 hrs
FFB270	270mm	275 x 100 x 1200mm	2 hrs
FFB280	280mm	285 x 100 x 1200mm	2 hrs
FFB290	290mm	295 x 100 x 1200mm	2 hrs
FFB300	300mm	305 x 100 x 1200mm	2 hrs