

# Wall Cavity Barrier (Red Edition)

Fire and Smoke Barrier for masonry cavity walls.



Installation Guidelines

Issue 4 - 06 2024

## PRODUCT

AIM Wall Cavity Barrier is made from foil faced high density Rockwool stone wool and is suitable for use in all masonry cavity walls, as well as for fire stopping between a masonry wall system† and a concrete floor slab. The barrier prevents the passage of heat, flame and smoke within the cavity it fills for one or two hour fire rating periods.

† AIM Wall Cavity Barrier has not been tested for use with aluminium curtain wall systems.

## PHYSICAL INFORMATION

### AIM Wall Cavity Fire Barrier cut to size

- Length: 1000mm
- Thicknesses: 75mm, 100mm, 125mm
- Foil Facing (with AIM logo now in red print to denote new test results)
- Cavity widths: 50 - 600mm (barrier to be compressed by 5%)
- Pre-compressed for ease of installation
- Faced with reinforced aluminium foil for enhanced smoke resistance

### AIM Wall Cavity Fire Barrier Slab

- Slab thickness: performance (Integrity and insulation)
  - 75mm: 30 minutes
  - 100mm: 60 minutes
  - 125mm: 120 minutes
- Slab size: 1000 x 600mm and 1000 x 1200mm
- Foil facing imprinted with AIM logo now in red print to denote new test results
- Available polythene sleeved when supplied pre-cut to size

## STORAGE

Cut product is supplied in cartons on pallets, slab products are supplied on wooden pallets with edge protection and a shower proof hood. Products should be stored away from the elements until ready for installation.

## HEALTH & SAFETY

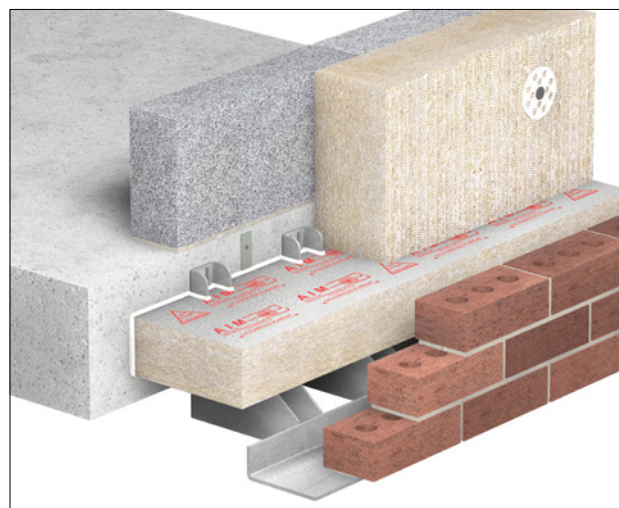
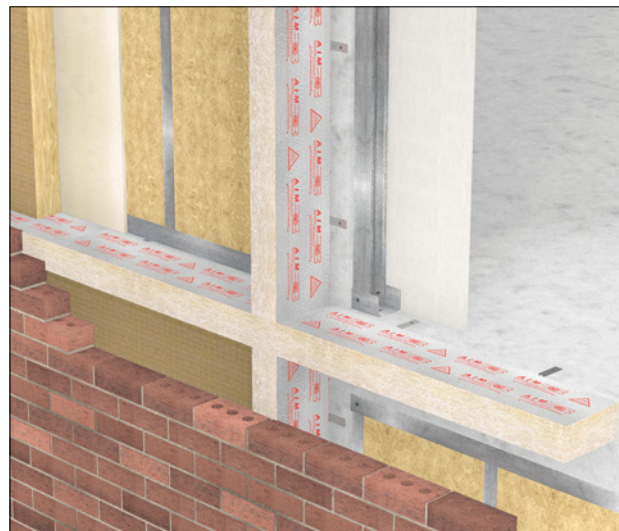
Insulation products supplied by AIM are considered to be inert articles and as such are exempt from requirements to provide a Safety Data Sheet.

A Product Safety and Handling Information Sheet is available upon request.

## ENVIRONMENT

Global warming potential = zero

The stonewool element of the products originate from Rockwool UK. It may be possible to recycle clean and uncontaminated material under Rockwool UK's Rockcycle® service. Please contact Rockwool on 01656 868400 for further details.



## COMPONENTS available from AIM

- Wall Cavity Fire Barrier Fixing Brackets
- AIM acrylic fire rated intumescent mastic (optional extra)
- Barrier either cut to size or in slab format

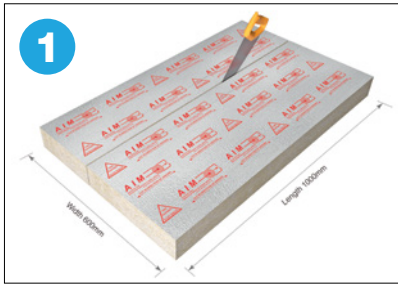
## ITEMS REQUIRED FOR INSTALLATION

- PPE abrasion resistant gloves
- PPE impact resistant goggles
- RPE dust mask
- AIM Acrylic fire rated intumescent mastic (optional extra)
- Tape measure
- Sharp knife
- Insulation Saw



Certificate number: IFCC 1897

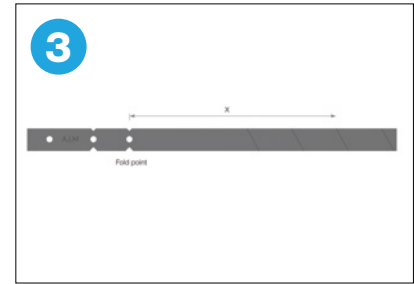
## INSTALLATION GUIDELINES



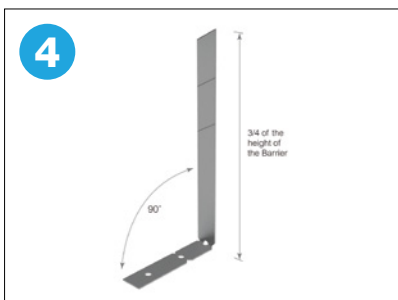
Measure the cavity depth and add 5%. Mark the slab and carefully cut using an insulation saw or hand saw. Please cut in the direction of the arrows printed on the foil facing. Note: This step is not required if installing Wall Cavity Fire Barrier cut to size.



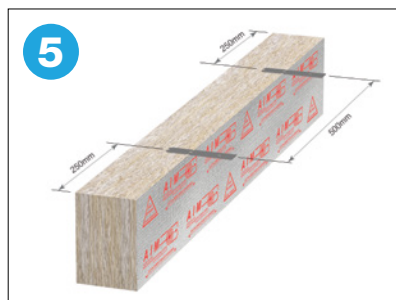
Check that the Wall Cavity Fire Barrier is the correct thickness for the cavity. The barrier should be 5% larger than the cavity.



Snap the fixing clips to the correct length. Dimension X should be three quarters of the barrier's height.



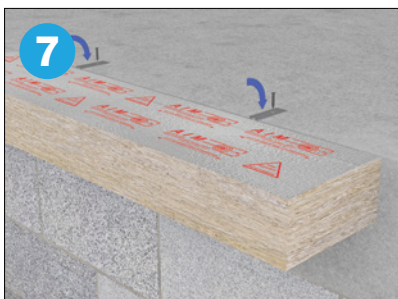
Form two fixing clips to 90° to form an L shape.



Insert two fixing clips into the barrier at 500mm centres approximately 250mm from each end.



Hold the section of barrier tightly against the abutting section and secure the barrier to the substrate.



If the barrier is being used at the perimeter of a concrete floor slab, fit the barrier so it sits level with the top of the floor slab. Fold the clips over and secure them to the top of the slab.



Check for any gaps between the barrier and substrates. All gaps should be fully sealed with fire rated intumescent mastic.



Where vertical barriers could cause "brick push" a push off post or bricklayer profile can be secured to the outside of the building as a preventative measure.

### MAINTENANCE

This product does not contain moving parts and, if undisturbed in the cavity, requires no routine inspections or maintenance.

It is recommended that the integrity of the barrier is rechecked if further works are carried out, which may involve disturbing the product.

### VERSION CONTROL

Issue 4 - 06 2024

This document replaces and supersedes all previous versions.

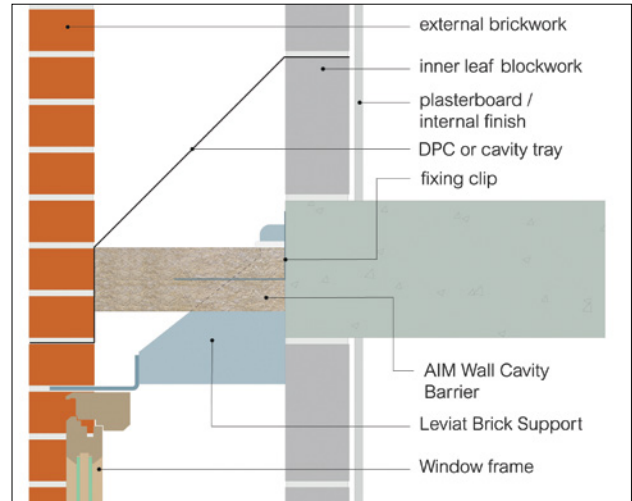
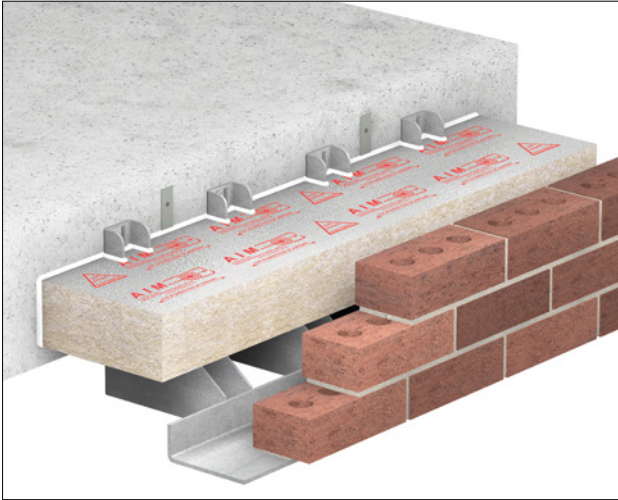
The current version number can be verified at <https://www.aimlimited.co.uk/downloads/> or call AIM on 01293 582400

## AIM WALL CAVITY BARRIER MASONRY SUPPORT - ADDENDUM

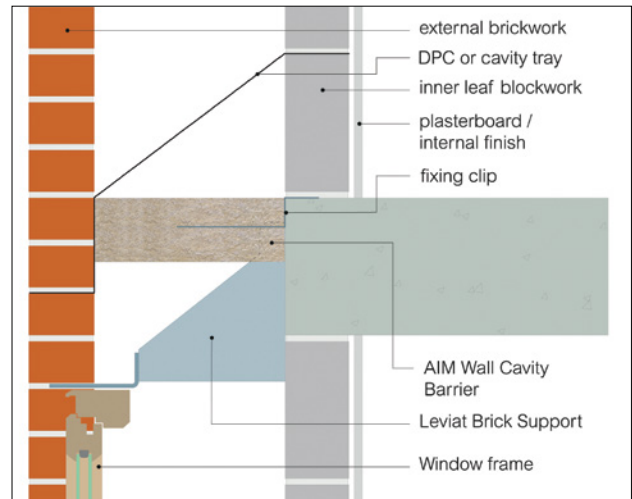
The AIM Wall Cavity Barrier has been tested in conjunction with Leviat brick support shelves where the location of the barrier and brick support shelf coincides. The AIM Wall Cavity Barrier has been tested with and without thermal

insulation and with the fins fully exposed. The drawings below show the relative position of the brackets and the fire resistance that is achieved with the respective barrier thickness.

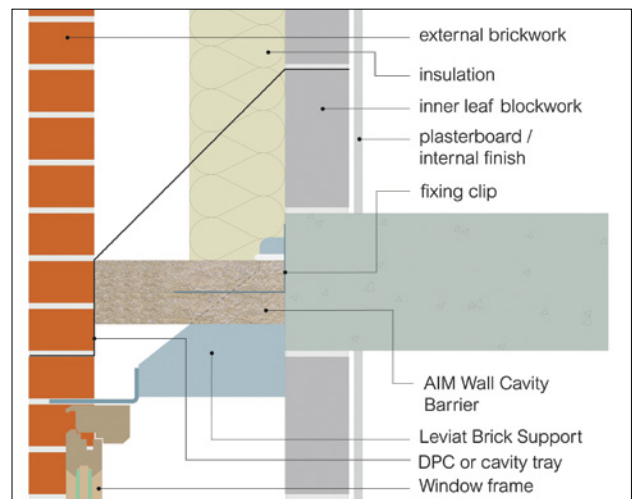
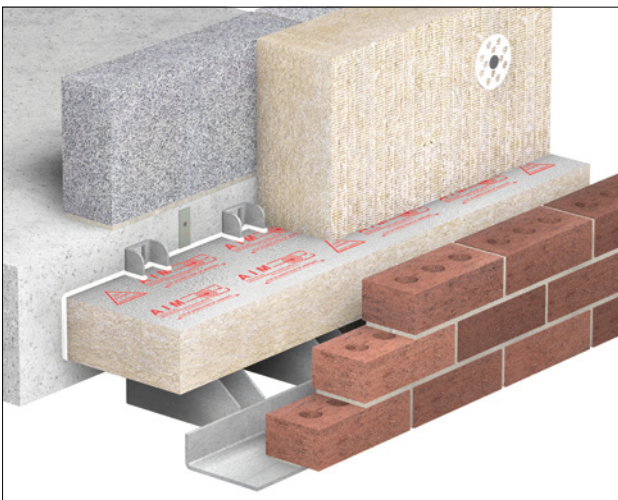
### 100% PENETRATION WITH NO THERMAL INSULATION



### 50% PENETRATION WITH NO THERMAL INSULATION

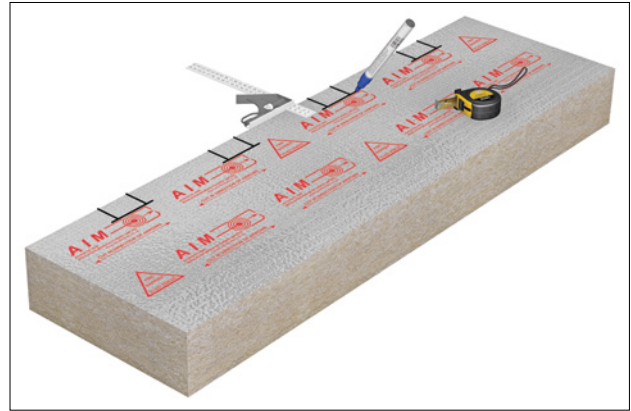


### 100% PENETRATION WITH NON-COMBUSTIBLE THERMAL INSULATION

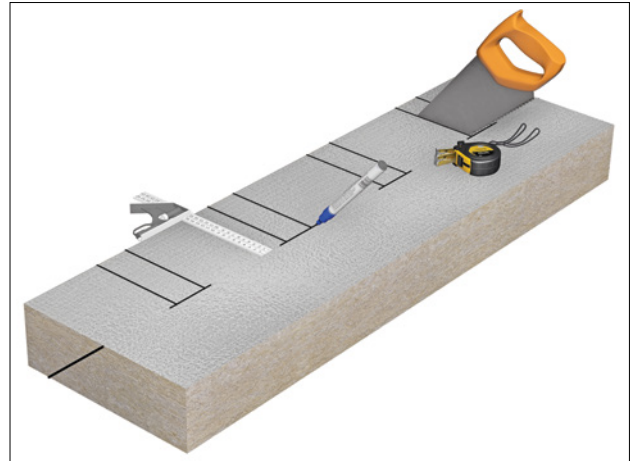


## Fitting around the masonry support shelf

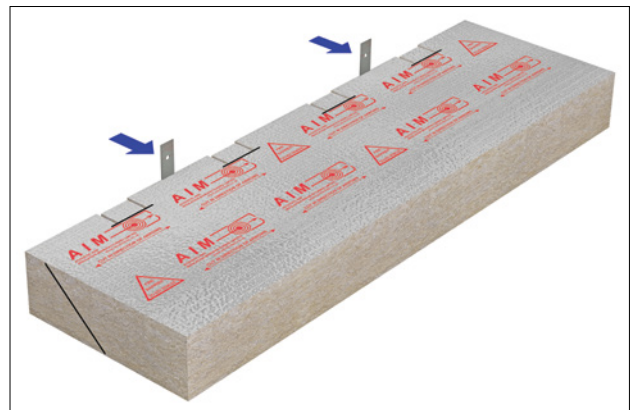
- 1** Mark where you need to cut. Hold the section of cavity barrier against the support shelf and mark where the fins will penetrate; ideally on both sides of the section of barrier.  
Mark how far you need to cut. Mark onto the face how far through you need to cut.



- 2** The barrier is easily cut with a hand woodworking saw.



- 3** Fit two fixing clips per length of barrier. These should be at roughly 500mm centres. Whilst the barrier really doesn't need fixing clips here, Approved Document B states that all cavity barriers must be mechanically secured in place.



- 4** Carefully fit the Wall cavity Barrier over the fins. When fitting the barrier make sure that the cut sections doesn't snag on the sides of the fins. Secure the fixing clips back to the slab edge. Remember that all of the fixings need to be non-combustible and corrosion resistant.

