

# Open State Cavity Barrier (OSCB 25)



An open state cavity barrier for ventilated façade systems and timber frame construction.

Installation Guidelines - OSCB 25 Range

Issue 1 - 06 2024

## PRODUCT

AIM Open State Cavity Barriers (OSCB's) are manufactured from high density Rockwool stone wool and faced with an intumescent strip and colour coded for ease of identification.

Open State Cavity Barriers offer an effective fire barrier for ventilated voids up to 425mm in width. Having been tested to TGD 19 & the general principles of BS EN 1363-1, they offer a superior fire rating of up to 120 minutes insulation & integrity with ventilated air spaces within the cavity.

The AIM OSCB range is available to provide either a 25 or 44mm air gap. For simplicity the range also offers either a 60, 90 and 120 minute rating for both Integrity and Insulation.

## PHYSICAL INFORMATION

- Thickness - 90mm
- Width - Total cavity size up to 425\*mm less 25mm (for the air gap).
- Length - 1000mm
- Max Air Gap – 25mm (these installation instructions cover the OSCB 25 range)

## TECHNICAL INFORMATION

Product	Sleeve Colour	Integrity/Insulation (Minutes)	Air Space (mm)	Max Cavity (mm)
AIM OSCB 60/25	White	60/60	25	425*
AIM OSCB 90/25	Clear with Green label	90/90	25	425*
AIM OSCB 120/25	Red	120/120	25	425*

\* The OSCB 25 range can be used in cavities up to 600mm where the barrier is supported by Rockwool Duoslab insulation or equivalent but is outside of the scope of IFC Certificate IFCC 1901.

## STORAGE

Products are typically supplied in cartons 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.

**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.



OSCB Barriers 60-25    OSCB Barriers 90-25    OSCB Barriers 120-25



Certificate number: IFCC 1901 (60/25, 60/44, 120/25, 120/44)

## COMPONENTS available from AIM

- OSCB Fixing Brackets – see table
- AIM acrylic fire rated intumescent mastic
- Coarse wound (Pigtail) Screws

Barrier Size	Fixing Clip Size	Quantity per mtr
Up to 160mm	Small 0.9mm	2
161 to 300mm	Large 1.2mm	2
301 to 600mm	HD Large 1.6mm	3

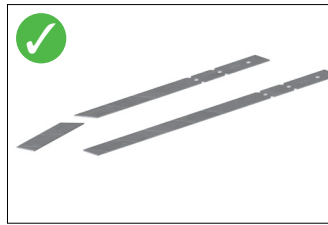
NB: Galvanised and stainless steel fixing clips available.

## ITEMS REQUIRED FOR INSTALLATION

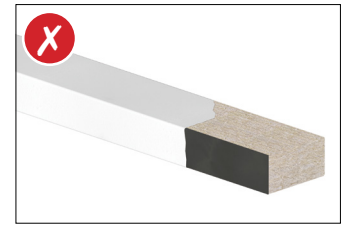
- PPE abrasion resistant gloves
- PPE impact resistant goggles
- RPE dust mask
- AIM Acrylic fire rated intumescent mastic (optional extra)
- Sharp knife
- Insulation saw
- Tape measure

## INSTALLATION GUIDELINES

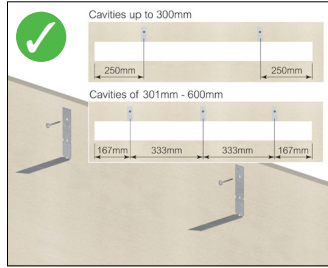
**1** Form the clips to an L shape and snap the clip to length. It must penetrate at least 50% of the barrier width but should not pass through the intumescent layer.



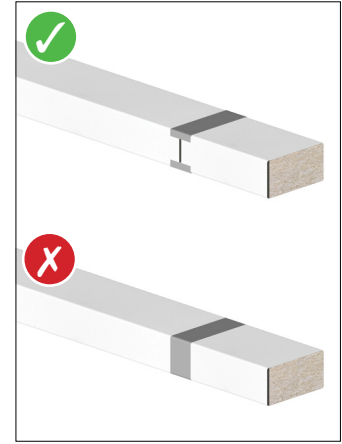
**7** Do not remove the weatherproofing polythene layer.



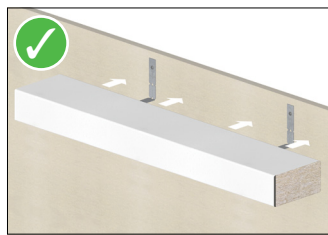
**2** Fit the clips to the substrate at 333 or 500mm centres (according to the cavity size – see table on page 1) ensuring that non-combustible and corrosion resistant fixings are used. One screw is required per clip.



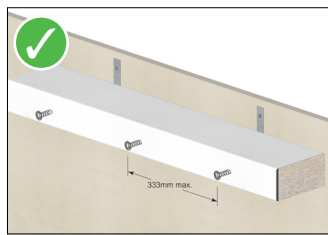
**8** Ensure that the product is installed with the intumescent material facing towards the cladding panel. Do not apply tape over the face of the barrier. (The top and bottom surface may be taped if necessary – as shown.)



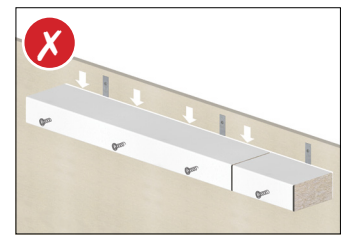
**3** Impale the barrier onto the fixing clips, mid depth, ensuring the intumescent faces the open airspace. Ensure a tight butt joint between sections of barrier.



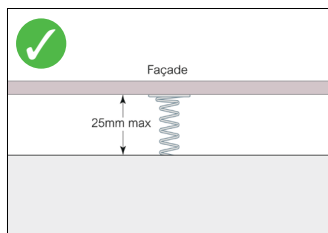
**4** Insert three coarse wound screws through the intumescent and into the barrier. Once the façade is installed these should be wound out to touch the inside of the façade panel.



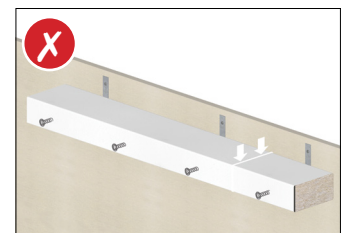
**9** Make sure that the barrier is sitting flush back to the substrate and no gaps are present. Seal any gaps or voids with AIM Intumescent Mastic.



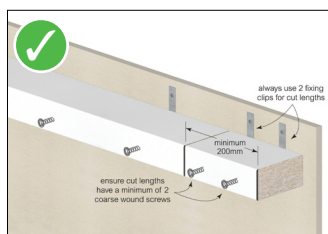
**5** Make sure that the airspace doesn't exceed 25mm and that all of the coarse wound screws are in contact with the inside of the façade panel.



**10** Make sure there are no gaps between adjoining sections of barrier. Any minor voids should be addressed with AIM Intumescent Mastic.



**6** Ensure cut lengths have a minimum of two fixing clips and two coarse wound screws.



**11** Make sure that the intumescent strip is clear to expand freely to the rear of the façade without obstruction. i.e. Vertical Cladding Rails or the returns of cassette panels, preventing free expansion.



## VERSION CONTROL

Issue 1 - 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