



certifix
YOUR FIXING SPECIALIST

AIM OSCB

(OPEN STATE CAVITY BARRIER)

PRODUCT DESCRIPTION

Certifix 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 allow the ventilation necessary within the wall construction. In the event of a fire, heat activates the intumescent strip which expands quickly to fully close the cavity.

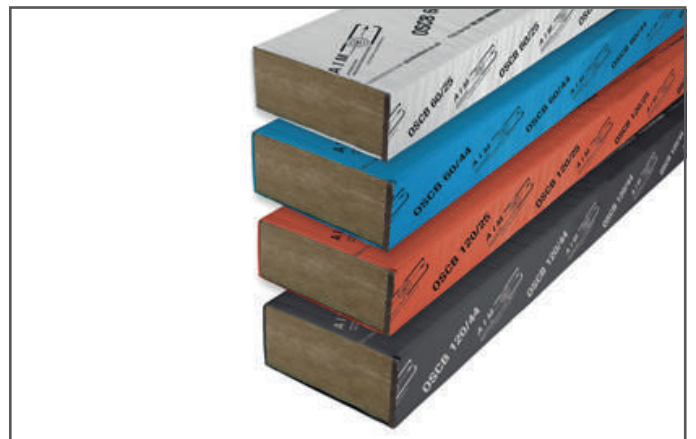
Certifix AIM OSCB's have been designed and tested for use within ventilated rainscreen façades and timber frame construction, allowing free airflow and drainage.

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



Example product installation schematic using materials by others



PRODUCT FEATURES

- Provides a 25mm or 44mm airspace
- Fire rated solutions for cavity voids up to 425*mm
- Heat activates the intumescent strip which expands quickly to fully close the cavity
- Tested in accordance with ASFP Technical Guidance Document 19 (TGD 19) & to the general principles of BS EN 1363-1
- Provides up to 120 minutes integrity and insulation performance
- Galvanised steel fixing bracket supplied as standard
- Stainless steel metal brackets available as a tested option
- The OSCB25 range can be used in cavities up to 600mm where the barrier is supported by Rockwool Duoslab insulation or equivalent

PRODUCT BENEFITS

- In the event of a fire, provides an effective barrier to the passage of hot smoke and fire behind the cladding system
- Designed to enable a continuous airflow behind a rainscreen and timber frame cladding system thus helping to prevent problems of condensation
- Flexible specification: Choice of four OSCBs deliver insulation and integrity performance up to 120 minutes
- Quick and cost effective installation
- Easy to install: Simple fixing procedure; OSCB25 range incorporates spring steel screws and steel hanging brackets. No specialist tools required
- Colour coded for ease of identification

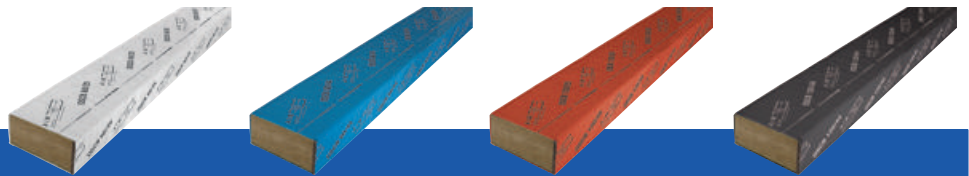




PHYSICAL INFORMATION

MATERIAL	Rockwool stone wool
DIMENSIONS	Thickness - 90mm* Width - Total cavity size (up to 425*mm) less 25 or 44mm according to the barrier required. Length - 1000mm* Max Air Gap - 25 or 44mm
USAGE	The OSCB 25 range can be used in cavities up to 600mm where the barrier is supported by Rockwool Duoslab insulation or equivalent.
PACKAGING	AIM OSCB's are generally packed into cartons and stretch wrapped onto wooden pallets with a showerproof polythene pallet cover and high quality edge protectors.

* AIM OSCB's are supplied pre-cut in 1000mm lengths, 90mm thick with widths varying according to the void size. The product is supplied pre-cut product complete with the required fixing clips.



TECHNICAL INFORMATION

	60/25	60/44	120/25	120/44
VERTICAL USE	No	No	No	No
HORIZONTAL USE	Yes	Yes	Yes	Yes
CLADDING RAILS	Provide 60+ minutes integrity	Provide 60+ minutes integrity	Provide 60+ minutes integrity	Provide 60+ minutes integrity
CAVITY SIZES	50mm to 425mm**	50mm to 425mm	50mm to 425mm**	50mm to 425mm
POLYTHENE SLEEVE	White colour coded	Blue colour coded	Red colour coded	Black colour coded
INSTALLED WITH CLIPS	Yes & coarse wound screws	Yes	Yes & coarse wound screws	Yes
FIRE RATING (INTEGRITY/INSULATION)				
MASONRY TO MASONRY	60/60	60/60	120/120	120/120
SHEETING BOARD TO MASONRY	60/60	60/60	120/120	120/120

Test evidence includes Euroclass EN 13501-1 A1 Sheathing Board, SFS Framework, Intersecting Vertical Rails.

Test run with combustible PIR, Rockpanel Façade, Extended Airspaces (30mm & 50mm - one hour only).

**The OSCB 25 range can be used in cavities up to 600mm where the barrier is supported by Rockwool Duoslab insulation or equivalent.

NOTE: Increased airspace reduces performance to 60 minutes.

Option for the OSCB 25 range without Coarse Wound Screws is available.

Option for the OSCB 25 range with a 'Through Fixing Clip' is available.

OSCB 60/25 has been tested vertically in a 425mm wide cavity.

Stainless Steel Screws / Coarse Wound Screws as standard. Stainless Steel Clips available.

We hold R&D test data for Cassette Inserts & for FF102/50 to be screwed to vertical rails.

We hold test evidence showing the performance of AIM OSCB's where the exterior cladding is a Rockpanel construction. Please contact our technical department for further details.

Test standards employed: BS EN 1363-1 & TGD19.

The OSCB range has been exposed to BS 8414 Fire performance of external cladding systems fire tests and assessed to BR135 to achieve pass results with a variety of third party cladding systems.

The AIM OSCB Range has been tested with masonry façades to establish the performance of the product itself without being influenced by the supporting structure. It may be used with a variety of façade types however this should involve the consideration and approval of a competent person.

TEST REPORTS

Assessment Report	Basic Details of Test
A variety of test reports are available but the suitability of the OSCB range is encapsulated within these assessments	
WF417032A	Assesment Covering OSCB 60/25
WF417032B	Assesment Covering OSCB 120/25
WF417032C	Assesment Covering OSCB 60/40
WF417032D	Assesment Covering OSCB 120/44



AIM are partners with NBS. Our products can be found on NBS Source and have been authored to NBS specification standards and have both CAWS and Uniclass 2015 classifications.





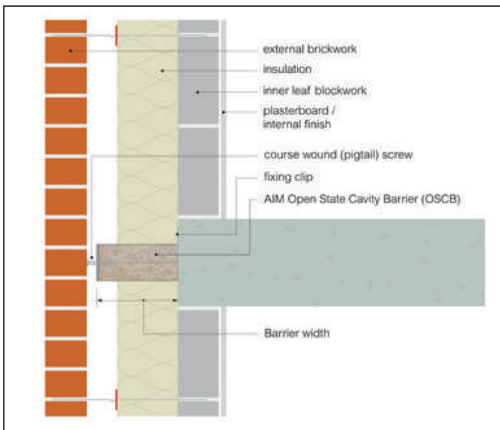
APPLICATIONS

OSCB's are a polythene sleeved ROCKWOOL® stone wool and intumescent material designed for use within open state cavities (e.g. Rainscreen systems), allowing ventilation and drainage of the cavity under normal conditions while providing up to 120 minutes insulation and integrity performance in the event of a fire.

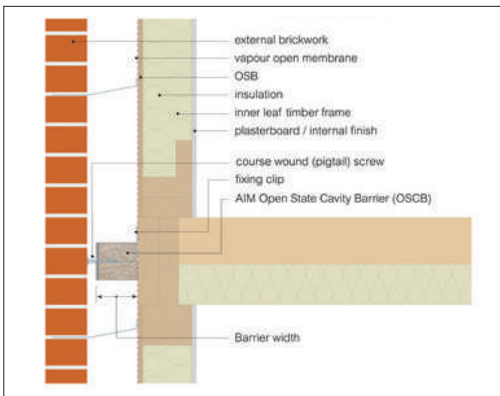
The **Certifix AIM OSCB** range has been successfully tested to TGD 19 & the general principles of BS EN 1363-1 with a variety of substrates so that they can be used in a multitude of cavity wall constructions.

The OSCB 60/25 has also been tested for use vertically in a masonry cavity up to 425mm.

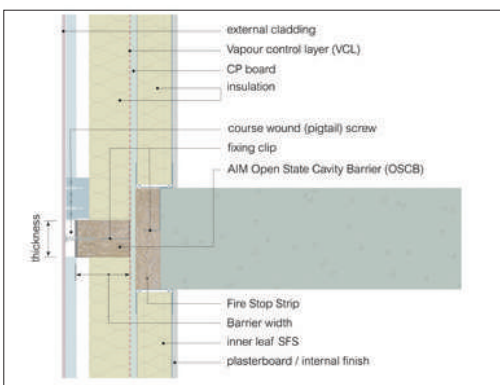
The **Certifix AIM OSCB** range has been tested to provide solutions that accommodate cladding rails interrupting the line of the barrier.



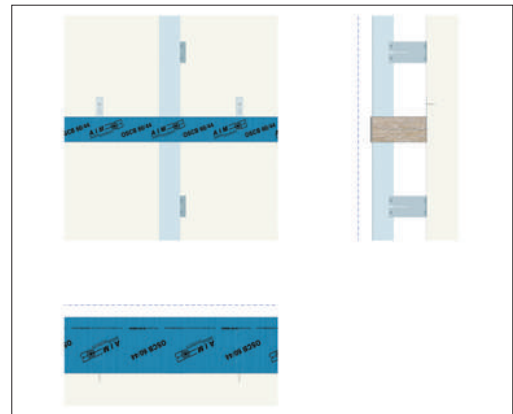
Certifix AIM Open State Cavity Barrier (OSCB)
- Masonry construction



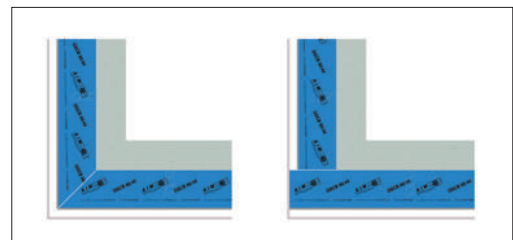
Certifix AIM Open State Cavity Barrier (OSCB)
- Timber Frame Masonry outer leaf construction



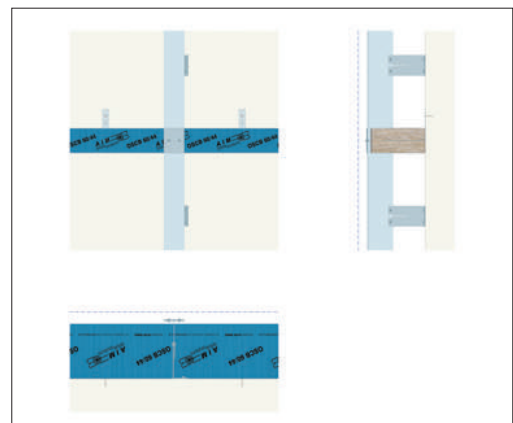
Certifix AIM Open State Cavity Barrier (OSCB)
- SFS to Cladding



2D Detail Drawings showing rail configurations - 1 OF 2



Corner Detail



2D Detail Drawings showing rail configurations - 2 OF 2

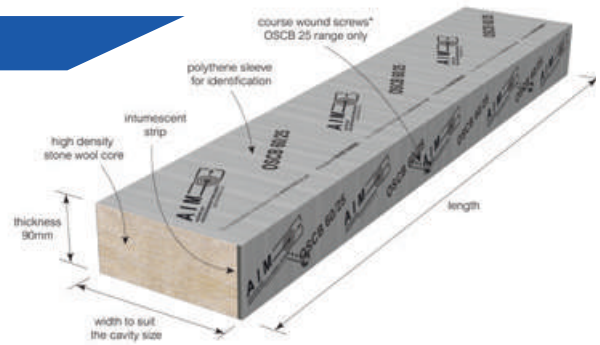




OPTIONS

In some instances it may be necessary to install a cassette insert to provide a flat surface for the OSCB to close against, eg where cassette panels are being used. Please contact Certifix our experienced sales team on 0161 672 333 or sales@certifix.co.uk

Stainless steel fixing clips are available on request.

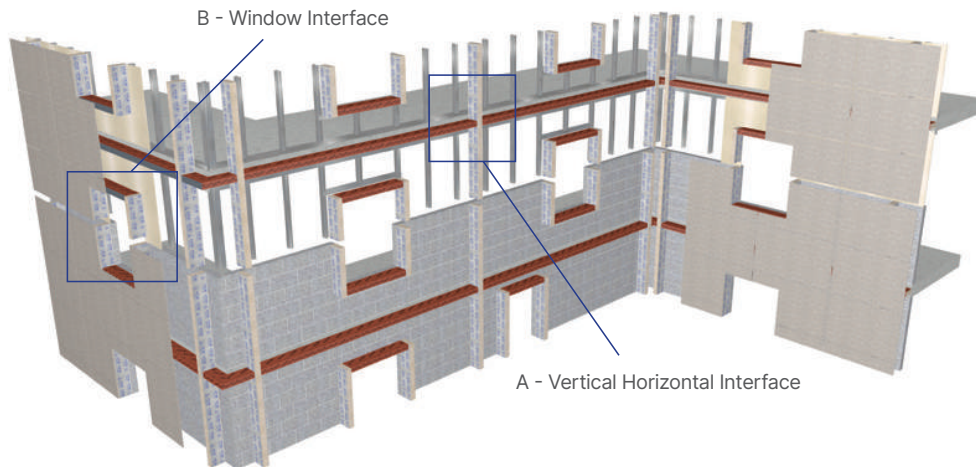


COMPARTMENTATION AND RAINSCREEN CLADDING SOLUTIONS

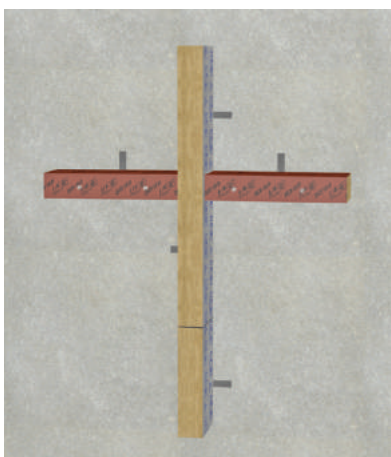
In general, **Certifix AIM OSCB's** are used in conjunction with **Certifix AIM's Wall Cavity Barrier** Wall Cavity Barrier. The OSCB's tend to be used for horizontal fire stopping and permitting free flowing ventilation through the cavity in a vertical plain with the Wall. Wall Cavity Barriers provide a fully filled cavity solution and are generally used vertically to prevent the spread of fire across the face of a building.

The drawings below provide guidance as to how the two products are combined to provide an overall fire stopping solution.

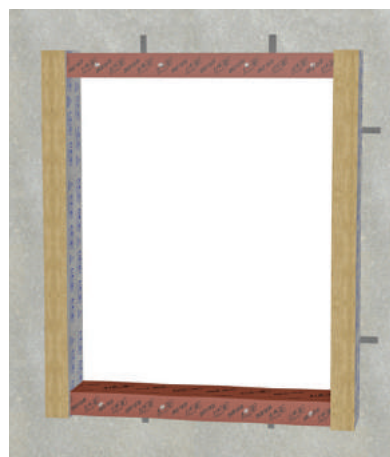
Please note: the drawing below reflects typical cavity barrier locations and is presented for guidance purposes only. The specifier and user must seek formal approval regarding cavity barrier location requirements on a project basis.



A - VERTICAL HORIZONTAL INTERFACE



B - WINDOW INTERFACE

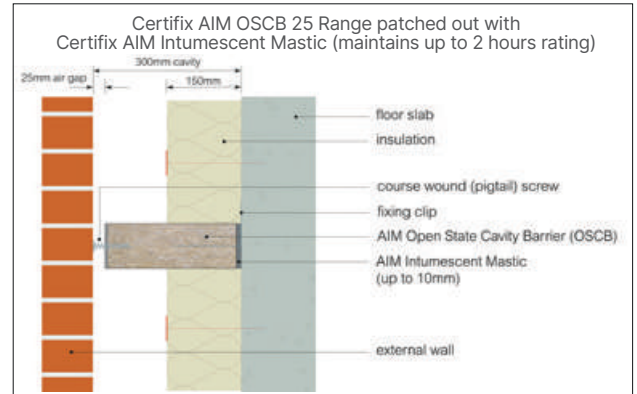




INSTALLATION GUIDELINES

Intumescent mastic is generally not required however it may be used to seal imperfections in the substrate. Please contact Certifix Technical for guidance on how to reduce the width of the OSCB barriers, if required.

Certifix AIM OSCB's are suitable for cavities from 50mm to 425mm* width. For cavities of less than 50mm, Tenmat Intumescent strips, available from Certifix, should be used (FF102/25 for cavities up to 25mm and FF102/50 for voids up to 50mm).



ITEMS REQUIRED FOR INSTALLATION



PPE ABRASION
RESISTANT
GLOVES



PPE IMPACT
RESISTANT
GOGGLES



PPE
DUST
MASK



SHARP
KNIFE



TAPE
MEASURE



INSULATION
SAW



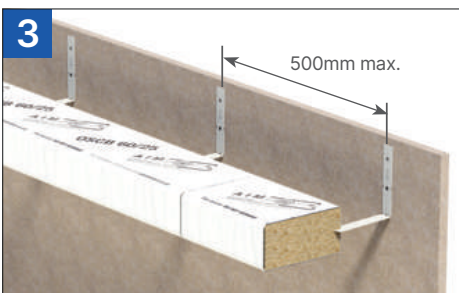
ACRYLIC FIRE RATED
INTUMESCENT
MASTIC
(OPTIONAL EXTRA)



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



Fit the clips to the substrate at 500mm centres ensuring that non-combustible and corrosion resistant fixings are used. One screw is required per clip.



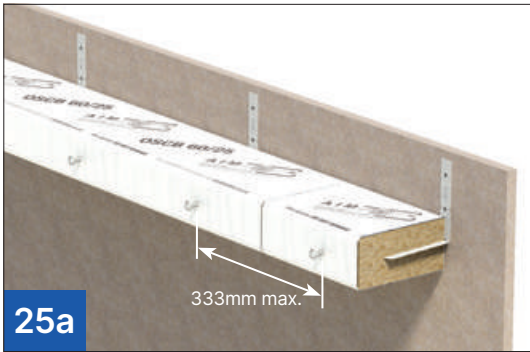
Impale the barrier onto the fixing clips, mid depth, ensuring the intumescent faces the open airspace. Ensure a tight butt joint between sections of barrier.



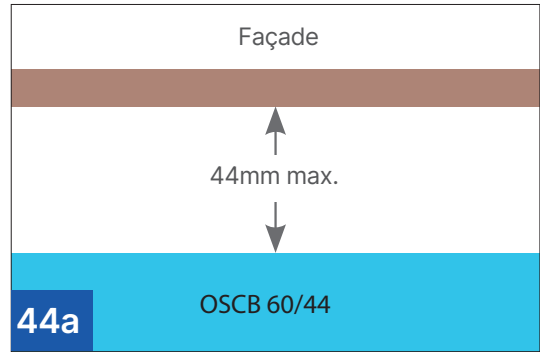


OSCB 25 SPECIFIC STEPS

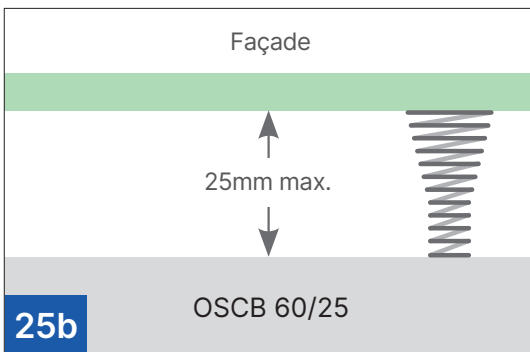
OSCB 44 SPECIFIC STEPS



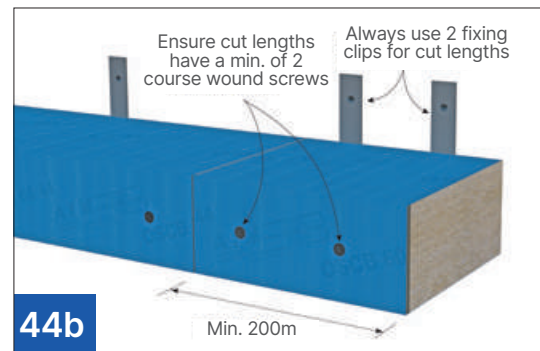
Insert three coarse wound screws through the intumescent and into the barrier. Once the façade is installed these should be wound out to touch the inside of the façade panel.



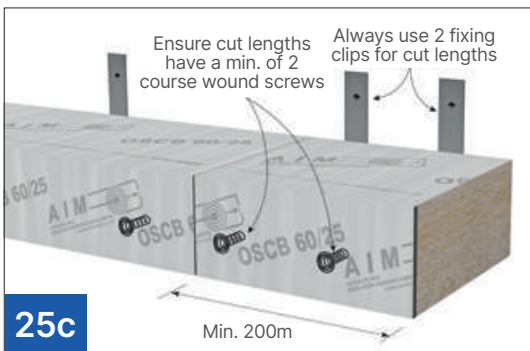
Make sure the airspace doesn't exceed 44mm.



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



Cut lengths must not be less than 200mm in length. Always use at least 2 fixing clips for cut lengths and a minimum of two securing screws.



Cut lengths must not be less than 200mm in length. Always use at least 2 fixing clips for cut lengths and a minimum of two coarse wound screws.





ATTENTION - PLEASE NOTE



Do not remove the weatherproofing polythene layer.

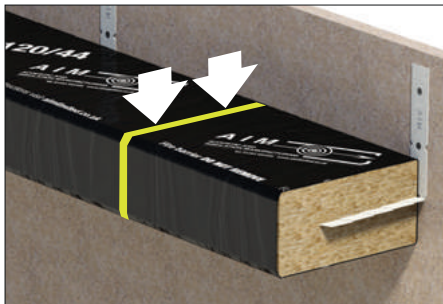


Ensure that the product is installed with the intumescent material facing towards the cladding panel.

Do not apply tape over the face of the barrier.



Make sure that the barrier is sitting flush back to the substrate and no gaps are present.



Make sure there are no gaps between adjoining sections of barrier. Any minor voids should be addressed with intumescent mastic.



Make sure that the intumescent strip is clear to expand freely to the rear of the façade without obstruction. i.e. Vertical Cladding Rails preventing free expansion.





COMPONENTS AVAILABLE FROM CERTIFIX

Galvanised steel fixing brackets are supplied at a rate of two per metre length. Brackets are packaged in a separate cardboard box located at the bottom of a pallet - the location will be marked with a label.

Fixing Brackets are designed to be easily re-profiled by hand on site, and should be cut as necessary to ensure they penetrate the barrier by at least 50% of its width. Stainless steel brackets are available as an option.

Coarse wound (Pigtail) Screws are required for **Certifix AIM OSCB** 60/25 and OSCB 120/25, and are used to secure the front-facing intumescent strip. They are supplied at a rate of 3 per metre length and will be packaged with the fixing brackets.

Care should be taken to ensure that the Coarse Wound Screws protrude from the front face of the firestop by a maximum of 25mm.



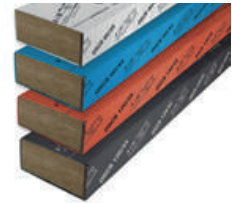
OSCB FIXING BRACKETS



CERTIFIX AIM INTUMESCENT MASTIC



COARSE WOUND (PIGTAIL) SCREWS



OSCB RAINSCREEN

USEFUL INFORMATION

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.

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.

DURABILITY

Certifix AIM fire barriers are chemically inert, will not sustain vermin and do not encourage the growth of rot, fungi, moulds or bacteria. They are compatible with all normal building materials. They do not degrade under the usual conditions found in buildings and will perform effectively for the life of the building.

HEALTH & SAFETY

Insulation products supplied by Certifix 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
For product recycling please contact: Rockwool
T: 01656 868400 E: recycling@rockwool.co.uk

ORDERING

To order this product the following information will be required:

- Cavity depth in mm
- Fire Performance required
- Approximate quantity
- Delivery location

All Certifix AIM fire barriers are made to order. Products are typically supplied in seven to ten working days but lead times may vary depending on existing factory commitments.

There is no minimum order quantity or value although small orders may attract transport surcharges.

TECHNICAL SUPPORT

Technical Support is available from our experienced sales team on 0161 672 3333 or sales@certifix.co.uk

