





CAVITY BARRIERS







Technical Description of Product



PFC Corofil Open State Barriers combine non combustible high density stone wool with a high expansion intumescent strip fixed to the outer face. Depending on the product ordered, it will be supplied either yellow polythene shrink wrapped or foil encapsulated.

PFC Corofil Open State Barriers are designed to close off air gaps between 25mm (see technical data sheet TDSCOSB 25) and 44mm (this technical data sheet TDCOSB44). The intumescent strip will expand on heating to close off the air gap between the barrier and inner surface of the facade. Galvanised steel brackets are supplied as standard, stainless steel brackets can be ordered separately if required. The fire resistance performance varies depending on which barrier is required to suit the application and build up of the substrates (please see performance data table below).

PFC Corofil Open State Barrier range is compliant to current market requirements and has been tested to the general principles of EN1363-1 and in accordance with ASFP Technical Guidance Document 19 (TGD 19).

Intended Use

PFC Corofil Open State Barriers are designed to reinstate the horizontal fire resistance performance of facades which have been designed to maintain a continuous air flow around the building and must accommodate a continuous air gap at the cavity barrier, allowing moisture to dissipate under normal circumstances, but reacting in the event of fire to rapidly close off the air gap to help prevent the spread of fire and hot smoke.

This data sheet shows the only applications the product has been tested in. Please ensure the product has been tested in and is suitable for your application (see PFC Corofil terms and conditions 13.1.1).

Key Points

- Tested in accordance with ASFP TGD19 and to the general principles of EN1363-1.
- Provides up to 180 minutes fire integrity performance.
- Provides up to 120 minutes insulation.
- Suitable for cavities up to 450mm.
- · Air gaps of 25mm and 44mm.
- 3rd party certification.

Technical Data



Specification

Product Description	High expansion intumescent strip fixed to either 82mm or 100mm thick high density stone wool and either polythene shrink wrapped or foil encapsulated	
Cavity sizes	Suitable for cavity widths from 40mm up to 450mm with either a 25mm or 44mm air gap	
Fire Resistance	Up to 180 minutes integrity Up to 120 minutes insulation (See performance data table)	Tested to general principles of EN1363-1 and in accordance with ASFP TGD 19
Colour / Appearance	Yellow or black polythene wrapped or foil encapsulated	

Installation Instructions



- The polythene shrink wrap or foil is an integral part of the product, please ensure it is still in place following installation.
- If insulation is installed, remove the insulation layer at the point where the barrier is to be installed.
- Ensure the correct size barrier is installed to suit the cavity width, allowing for the required air gap and specified fire performance.
- Ensure the intumescent strip faces out towards the external facade.
- When fixing into Siniat Weather Defence board, the fixings (supplied by others) must penetrate the depth of the board so they are fixed back into the framework behind.
- When fixing to masonry, the fixings (supplied by others) should be of an appropriate type and length for the surface the brackets are being fixed to.
- When fixing into other surfaces, the fixings (supplied by others) should be of an appropriate type and length for the surface the open state cavity barrier is being fixed to.
- The substrates the barriers have been tested with can be found in the table on page 6.
- Please consult a fixings manufacturer for the correct fixings for the substrate.
- Seal any gaps up to 5mm wide with PFC Corofil Acoustic Intumescent Sealant to a minimum depth of 10mm.
- For lengths shorter than 1 metre reduce the fixing centres to accommodate the required number
 of fixings/brackets at an equal distance apart. For lengths 200mm long or less, install one fixing/
 bracket centrally.
- When cutting Open State Barrier (COSB) to short lengths, ensure the polythene shrink wrap/foil is reinstated.
- Ensure the intumescent is free to expand across the air gap to the back of the external wall leaf in a fire situation.

Direct fixing

- Mechanically fix the COSB back to the inner substrate using 4 fixings (supplied by others see fixings table on page 5) along the central line of the barrier. Ensure the head of the screw does not penetrate the intumescent part of the barrier. The screw head must not exceed 11mm in diameter.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

Fixing with brackets

- Mechanically fix the brackets to the substrate (see fixings table on page 5 for quantity and type
 of bracket) using the appropriate non-combustible corrosion resistant fixings (supplied by others)
 per bracket.
- Spike the COSB onto the brackets centrally along the length of the barrier.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to create the appearance of a continuous barrier.

Installation Instructions



Fixings						
Product Reference	PFC Corofil reference	Overall cavity width (mm)	Inner substrate	Fixing type	Centres	Appearance
1026 COSB44	60	Cement particle Board	5.0 x 40mm CSK head pozidrive screws	500mm centres	Polythene wrapped	
	300	Masonry	MP brackets			
	301 - 450	Masonry	HP brackets			
	300	Masonry	HP brackets			
	1406	450	Gypsum	HP brackets]	Foil
	500	Calcium silicate cement fibre board	HP brackets		encapsulated	

Substrates

- Masonry; minimum 150mm thick and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m³.
- Steel Frame System; Metsec SFS 100mm x 2mm thick faced with 12.5mm Siniat Weather Defence Board on the outer face.

The supporting construction must be classified in accordance with EN13501-2 for the required fire resistance period.

Terminology

Fire resistance classes:

E = Integrity. The length of time it takes for the fire

to pass to the non fire side.

I = Insulation. The length of time it takes for the heat of the fire to pass to the non fire side.

Performance Data



Fire Resistance Performance						
Product PF	PFC Corofil	PFC Corofil Overall cavity reference width (mm)	Inner substrate	Air gap (mm)	Fire resistance performance	
Reference	ference reference				Integrity (minutes)	Insulation (minutes)
1026 COSB44		60	Cement particle Board	44	180	180
	1026	300	Masonry		60	60
		301 - 450			45	30
		300	Masonry		120	120
	1406	450	Gypsum		90	90
		500	Calcium silicate cement fibre board		180	180





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