

## PFC Corofil C450 Cavity Firestop

### Installation Instructions

PFC Corofil C450 Cavity Firestop is used to prevent the spread of fire to adjoining compartments in external cavities, both horizontally and vertically to provide up to 2 hours protection in curtain walling, cladding, masonry, brick and block constructions.

If you are unsure about any details within this method statement, please email [tech@pfc-corofil.com](mailto:tech@pfc-corofil.com)

#### General

- Remove all loose debris and mortar from the cavity.
- Ensure the correct thickness and depth is installed to suit the cavity width and required fire rating (see TDC450 for details).
- Any cutting of the C450 on site, to suit tolerances, shall be done accurately and kept to a minimum. The correct over size for compression must be maintained (See table below for correct compression).
- Where the C450 barrier is installed against a corrugated profile cladding panel, insert PFC Corofil C144 Firestop Blocks into the corrugations to the same depth as the C450 barrier using Fastight Coating as an adhesive (see MSFAST).
- Where there is a requirement for a cold smoke seal, the C450 barrier can be supplied fully encapsulated in foil or applied with Fastight Coating (see MSFAST).
- Where the cavity requires an improved acoustic rating, the C450 barrier can be applied with Fastight Coating (see MSFAST)
- All butt joints should be sealed with foil tape on foil encapsulated sections or Fastight Coating on coated sections.
- Any gaps (up to 5mm) between the C450 barrier and the structure should be filled with PFC Corofil Acoustic Intumescent Sealant.

#### Installation for horizontal and vertical cavities up to 100mm wide

- Friction fit the C450 barrier into the cavity ensuring it is installed under compression.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other.

#### Installation for horizontal and vertical cavities from 101mm - 450mm wide

- Fix PFC Corofil Multipurpose Brackets to the blockwork using 2 no. non combustible corrosion resistant screws minimum 40mm long (supplied by others) and position the leg of the brackets to the midpoint of the C450 barrier. The brackets should be fixed 250mm from each end of the barrier.
- When fixing the brackets to any other substrate, please contact a fixing supplier for advice on the correct fixings.
- For sections of C450 less than 1 metre in length, 2 brackets are still required. Reduce the fixing centres so the brackets are equal distance apart to provide stability.
- Push the C450 barrier onto the leg of the bracket so it is spiked into the centre along the length and compress into the cavity.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other.

## Installation for vertical cavities from 451 mm - 600mm wide

- Fix PFC Corofil Multipurpose Brackets to the substrate using 2 no. non combustible corrosion resistant screws minimum 40mm long (supplied by others) and position the leg of the brackets to the midpoint of the C450 barrier. The brackets should be fixed 250mm from each end of the barrier.
- When fixing the brackets to any other substrate, please contact a fixing supplier for advice on the correct fixings.
- Repeat above process on inside face of outer leaf.
- For sections of C450 less than 1 metre in length, 2 brackets are still required. Reduce the fixing centres so the brackets are equal distance apart to provide stability.
- Push the C450 barrier onto the leg of the bracket so it is spiked into the centre of each length and compress into the cavity.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other.

## Table for Compression

Cladding / Curtain Walling	Brickwork / Blockwork
10mm	5mm

## Health & Safety Instructions

Please refer to SDC450

## Other Information

Please ensure the product(s) described within this method statement have been tested in, and are suitable for your application.

Doc Reference	MSC450						
PB	SE	CB	CI	AB			
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