

## PFC Corofil VFB+ Open State Cavity Barrier

### Installation Instructions

PFC Corofil VFB+ is used to prevent the spread of fire for up to 90 minutes in both horizontal and vertical open state cavities where a continuous air gap is to be maintained. The barrier is manufactured to suit the overall cavity width to allow a free air gap of up to 44mm wide (see TDVFB+ for full list of cavity sizes and air gaps).

### PFC Corofil VFB+ Open State Cavity Barriers must not be removed from the polythene shrink wrap

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

### General

- If installed remove any insulation 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 rating.
- Ensure the intumescent strip faces outwards towards the external facade.
- Where fixing to OSB timber faced stud the fixings (supplied by others) must penetrate the substrate by a minimum of 25mm. Please seek advice from a fixings manufacturer for the correct fixing.
- Where fixing to brick/block or cement particle board the fixings (supplied by others) must penetrate the substrate by a minimum of 50mm. Please seek advice from a fixings manufacturer for the correct fixing.
- Where fixing to concrete, fixings (supplied by others) should be of an appropriate type and length for the surface the brackets are being fixed to. Please seek advice from a fixings manufacturer for the correct fixing.
- The spike of the bracket must penetrate the barrier by a minimum of 75% of its total width ensuring it does not protrude through the intumescent strip. The bracket should be cut down to suit if too long.
- For lengths shorter than 1 metre reduce the fixing centres to accommodate the required number of brackets/fixings at an equal distance apart.
- When cutting VFB+ to length, ensure the polythene shrinkwrap 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 for cavities 51mm - 119mm wide

- Mechanically fix the VFB+ back to the inner wall using 4 number fixings (as detailed in the fixings table below. Supplied by others) along the central line of the barrier.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other.
- Cut sections of VFB+ will require at least 2 fixings at 250mm centres.

## Fixing with brackets for cavities 120mm wide and above

- Mechanically fix the brackets to the substrate (see table below for quantity and type of bracket) using 2 non-combustible corrosion resistant fixings per bracket (fixings supplied by others).
- Spike the VFB+ onto the brackets at the centre line along the length of the barrier.
- Ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other.
- For cavities above 300mm wide VFB+ must be sealed against the supporting structure with PFC Corofil acoustic intumescent sealant
- Cut sections of VFB+ will require at least 2 brackets at 500mm centres depending on the cavity width.

## Fixings Table

Cavity (mm)	Masonry / Brick / Block & CP Board	Fixings	Timber / OSB	Fixings
51 - 119	125mm from 1 end and 250mm centres	4 screws	125mm from 1 end and 250mm centres	4 screws
120 - 260	250mm from 1 end and 500mm centres	2 MP brackets	250mm from 1 end and 500mm centres	2 MP brackets
261 - 300	250mm from each end and 1 centrally	3 MP brackets	250mm from each end and 1 centrally	3 MP brackets
301 - 454	250mm from 1 end and 500mm centres	2 HP brackets	Not applicable	Not applicable
455 - 500	125mm from each end and 250mm centres.	Threaded stud and bracket* (supplied by others)	Not applicable	Not applicable

Corrosion resistant steel masonry/concrete fixings should be used with masonry, brick/block and CP board.

Corrosion resistant steel timber fixings should be used with timber/OSB.

Maximum screw head size 11.5mm (trumpet/countersunk type head only), washers not permitted. All fixings must have an appropriate depth for the substrate.

**Please seek advice from a fixings manufacturer to ensure the correct fixings are used for the substrate the VFB+ is being fixed to.**

\* 450mm long 10mm diameter threaded stud screwed into a steel bracket and fixed to the blockwork with 2 x 80mm long masonry screws. The stud should be recessed into the blockwork by 20mm.

MP and HP brackets are supplied by PFC Corofil. All other fixings not supplied.

## Health & Safety Instructions

Please refer to SDVFB+

## Other Information

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

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