

## PFC Corofil C144 Firestop Strips and Blocks

### Installation Instructions

PFC Corofil C144 Firestop Strips and Blocks are used to prevent the spread of fire at linear joints in masonry walls and floors and the junction of compartment walls, roofs and floors for a specified period of up to 4 hours. The products are manufactured oversized to be installed under compression.

If a cold smoke, air tight seal or improved acoustic performance is required, the C144 Firestop Strips and Blocks can be applied with Fastight Coating (see MSFAST for details).

C144 Firestop Strip can be compressed up to 50% of its original thickness and will recover by 97% over 10,000 compression cycles.

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

### General Installation

- Remove all loose debris and mortar from the gap to be firestopped
- The edges of the gap should be level and straight. Any minor irregularities on each face should be sealed with PFC Corofil acoustic intumescent sealant (irregularities should not extend the full width of the C144).
- Ensure the correct size of C144 Firestop strip is installed to suit the gap and required fire rating (see TD144S for details).
- Friction fit the C144 Firestop Strip into the gap ensuring it is installed under compression (see table overleaf for the suitable compression compared to the gap size).
- When extending the length of the firestop strip ensure that adjacent lengths have their joints tightly abutted together and are aligned flush with each other to give the appearance of a continuous strip. It is recommended the joints on the exposed face are sealed with PFC Corofil acoustic intumescent sealant.
- When installing C144 Firestop strip in masonry or concrete walls. The wall shall be a minimum 100mm thick (excluding plaster/render) or greater if required to match the width of C144 (and air gap).
- Masonry or concrete walls and floors must be constructed of materials with a minimum density of 650kg/m<sup>3</sup>
- Where the width of the C144 Firestop strip is less than the width of the associated masonry or concrete wall, the C144 shall be installed centrally.
- Where the width of the C144 Firestop strip is less than the thickness of the floor, the C144 shall be installed flush with the upper surface of the floor.
- When installing a 2 strip system the masonry or concrete wall shall be of sufficient width to accommodate both strips and allow a minimum 20mm air gap between the two strips. The strips should be installed flush with the outer faces of the wall
- If a decorative finish (plaster/render) is applied to the face of the wall the C144 Firestop strip should **NOT** be installed flush with the face of the decorative finish and should be set back to finish flush with the face of the solid construction.

## General Installation continued

- When the head of a wall is to the underside of a profiled deck, install PFC Corofil C144 Firestop Blocks into the corrugations of the profile (see TD144B for details).
- When installing PFC Corofil C144 Firestop blocks at the head of plasterboard lined steel stud partitions, the partition shall be of a type which is proven to provide the required level of integrity and insulation performance in its own right, at the proposed heights and spans. It is the responsibility of others to ensure the partition can provide the necessary level of fire resistance.
- The partition shall be at least 95mm thick (C144 block to be 100mm thick) where 1 hour fire resistance is required and 130mm thick C144 block to be 150mm thick) where 2 hours fire resistance is required. Greater widths of partition may be required to suit height, span or other requirements.
- When the partition widths are wider than 95mm or 130mm (as required for the fire rating) the C144 Firestop blocks must be the same width as the partition and finish flush with the face of the wall on both sides (not including plaster).
- The head track shall be fixed to, and closely against the underside of the floor or roof decking.
- Ensure the trapezoidal shape of the C144 Firestop block is correct to suit the composite decking, lining or cladding profile prior to installation and that they are the correct length.
- Insert the PFC Corofil C144 Firestop block into the profile making sure the block is a tight fit on the top and sides of the profile as well as against the head of the partition leaving no gaps.
- If the block overhangs the partition (because of the required fire rating) ensure it is installed centrally within the partition.
- When filling continuously along one corrugation, ensure the block is installed prior to building the wall.
- Fill all corrugations that might fall within the depth of the wall.
- When filling continuously along one corrugation, if the C144 Firestop Block overhangs the sides of the wall, the underside of the corrugation will need to be closed off with a fire rated board (supplied by others) fixed to the soffit to maintain the fire rating.
- Seal any gaps (up to 5mm) with PFC Corofil Acoustic Intumescent Sealant.

## Table for Compression

Gap Size (mm)	Extra for Compression
10 - 100	10%
101+	10mm

## Health & Safety Instructions

Please refer to SDC144

## 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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