

PFC Corofil Intumescent Firestop Collars

Installation Instructions

PFC Corofil Intumescent Firestop Collars are designed to prevent the passage of fire in plastic pipes penetrating plasterboard and masonry walls or concrete floors.

If you are unsure about any details within this method statement, please email tech@pfc-corofil.com

General

- Remove all loose debris from around the substrate and the pipe.
- The collar size must be suitable to match the outside diameter, material and wall thickness of the plastic pipe and the fire rating required.
- For compartment walls collars should be fitted to both sides of the wall.
- For compartment floors collars should be fitted to the underside surface of the floor (PFC Corofil Intumescent Firestop Collars are not tested for fixing to the floors top surface).
- Insulation fitted to the pipes should not run through the wall or floor and should be cut short on both sides allowing the collar to be fixed directly to the pipe.

PFC Corofil intumescent pipe collars are not suitable for use with ventilated pipe systems or profiled composite decking.

Installation for plastic pipe penetrations in plasterboard walls

- Plasterboard walls should be of a type proven by test/assessment to provide the specified fire integrity and insulation in its own right. It should be constructed with a minimum of 2 layers of plasterboard on each side.
- Apply PFC Corofil Acoustic Intumescent Sealant into the annular gap (annular gap to be maximum 7.5mm) around the pipe to the full depth of the boards and leave a smooth finish.
- Fit PFC Corofil Firestop Collar around the pipe and push flush up to the plasterboard wall and close the clasp securely.
- Mechanically fix the collar to the plasterboard wall using non-combustible deep threaded steel screws (minimum 12mm longer than the thickness of the boards) and 25mm diameter steel penny washers (the size of the hole should be smaller than the head of the screw) then repeat procedure on other side of the wall.

Installation for plastic pipe penetrations in masonry and concrete walls with a maximum annular gap of 7.5mm

- Masonry, concrete or block walls should be constructed of a suitable material with a minimum density of 650kg/m³. The total thickness of the construction (not including plaster/render) shall be a minimum 100mm.
- Apply PFC Corofil Acoustic Intumescent Sealant into the annular gap (annular gap to be maximum 7.5mm) around the pipe (15mm deep) using a mineral wool backer (15mm deep) friction fitted under compression and leave a smooth finish. This applies to both faces of the penetration.
- Fit PFC Corofil Firestop Collar around the pipe and push flush up to the wall and close the clasp securely.
- Mechanically fix the collar to the wall using non-combustible steel self tapping masonry anchors (minimum 50mm long) then repeat procedure on other side of the wall.

Installation for plastic pipe penetrations in masonry and concrete walls with annular gap larger than 7.5mm

- Mix PFC Corofil Firestop Compound into a trowel grade (see MSCOMP for details).
- Trowel compound into the hole to depth of the wall, leave a smooth finish and leave to cure.
- Once cured fit the PFC Corofil Firestop Collar around the pipe and push flush up to the wall and close the clasp securely.
- Mechanically fix the collar to the wall using non-combustible steel self tapping masonry anchors minimum 50mm long (supplied by others) fixed through each of the lugs on the collar. Then repeat procedure on the other side of the wall.

Installation for plastic pipe penetrations in concrete floors (fixed from underside) with a maximum annular gap of 7.5mm

- Floors shall be constructed of a concrete with a minimum density of 650kg/m³ and a minimum thickness of 150mm
- Apply PFC Corofil Acoustic Intumescent Sealant into the annular gap (annular gap to be 7.5mm) around the pipe (15mm deep) using a mineral wool backer (15mm deep) friction fitted under compression and leave a smooth finish.
- Fit PFC Corofil Firestop Collar around the pipe and push flush up to the underside of the concrete floor and close the clasp securely.
- Mechanically fix the collar to the floor using non-combustible self tapping steel masonry anchors (supplied by others) minimum 50mm long fixed through each of the lugs on the collar.

Installation for plastic pipe penetrations in concrete floors (fixed from underside) with an annular gap larger than 7.5mm

- Shutter the aperture in the concrete floor with a temporary shuttering cut tightly around the pipe.
- Mix PFC Corofil Firestop Compound (see MSCOMP for details).
- Install the compound into the annular gap, ensuring the mix is tamped down to a minimum depth of 100mm and leave a smooth finish.
- Allow to cure, then fit PFC Corofil Firestop Collar around the pipe and push flush up to the underside of the floor and close the clasp securely.
- Mechanically fix the collar to the floor using non combustible self tapping masonry anchors (supplied by others) minimum 50mm long fixed through each of the lugs on the collar

Installation for plastic pipe penetrations in concrete floors (cast-in)

- Shutter the aperture in the concrete floor with a temporary shuttering cut tightly around the pipe.
- Fit PFC Corofil Firestop Collar around the pipe, ensuring the intumescent retaining teeth are facing downwards so it is positioned on top of the shuttering.
- Mix Firestop Compound (see MSCOMP for details).
- Install the compound into the annular gap, ensuring the mix is tamped down to a minimum depth of 100mm and leave a smooth finish.
- Allow to cure and then remove the shuttering.

Health & Safety Instructions

Please refer to SDCOLL

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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