

# PFC Corofil Intumescent Conduit

## Application

PFC Corofil Intumescent Conduit is designed to provide a firestop where electrical and telecommunications cables pass through fire resisting walls and floors. PFC Corofil Intumescent Conduit can be partially or completely filled or leave it empty ready for future cable installation. It is installed with a slight friction fit and PFC Corofil Acoustic Intumescent Sealant is applied where the conduit protrudes through the wall/floor.

Tested in accordance with BS 476 Part 20:1987 and EN1366-3, PFC Corofil Intumescent Conduit provides up to 4 hours fire protection.

## Description

PFC Corofil Intumescent Conduit consists of a 1200mm long preformed tube of semi flexible intumescent material, available in 20, 25 and 32mm diameter. The wall thickness is 2.4mm on the 32mm and 1.9mm for the smaller diameters. (See MSCOND for installation Instructions)

**Fire rating when installed through a minimum 150mm thick masonry or concrete Wall**

% of cross section area within Intumescent Conduit that is filled with cables	Minimum length of Intumescent Conduit (mm)	Maximum integrity performance
Empty	150	240mins
1% - 100% Cat 5E/Cat 5 and/or power cables	150	240 mins
40% - 60% Fibre optic cables AND 40% - 60% power cables	150	90 mins
61% - 99% Fibre optic cables AND 1% - 39% power cables	150	60
0% - 100% Fibre optic cables	150	30

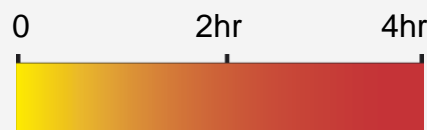
**Note:** When installed in a 100mm thick masonry or concrete wall the integrity performance in the above table will be reduced by 60 minutes, or to the fire rating of the wall whichever is the lesser

**Fire rating when installed through a 50mm thick PFC Corofil Coated Panel installed within a masonry or concrete wall**

% of cross section area within Intumescent Conduit that is filled with cables	Minimum length of Intumescent Conduit (mm)	Maximum integrity performance
Empty	100	120 mins
1% - 100% Cat 5E/Cat 5 and/or power cables	100	180 mins

## FIRE RATINGS

Tested to  
BS 476 Part 20:1987  
EN1366-3



Fire Rating

## TECHNICAL INFORMATION

Available from our technical sales office.

Email [tech@pfc-corofil.com](mailto:tech@pfc-corofil.com) for:

- Safety Data Sheet (SDCOND)
- Installation Instructions (MSCOND)



V90 360





# PFC Corofil Intumescent Conduit

## Fire rating when installed through a plasterboard clad partition

% of cross section area within Intumescent Conduit that is filled with cables	Maximum integrity performance (minutes) – dependent upon conduit length and partition type (see notes below table)		
	Wall Type A	Wall Type B	Wall Type C
	120mm long Intumescent Conduit	120mm long Intumescent Conduit	120mm long Intumescent Conduit
Empty	30	60	120
1% - 100% Cat 5E/Cat 5 and/or power cables	30	60	120
40% - 60% Fibre optic cables AND 40% - 60% power cables	N/A	30	60
61% - 99% Fibre optic cables AND 1% - 39% power cables	N/A	N/A	30
0% - 100% Fibre optic cables	N/A	N/A	30

## Approved wall types

Type A: 70mm thick partition with single layer 12.5mm 'type 1' grade plasterboard on each face of steel studs.

Type B: 95mm thick partition with double layer 12.5mm 'type 1' grade plasterboard on each face of steel studs **OR** single layer 12.5mm 'type 5' grade plasterboard on each face of steel studs.

## Both type B wall options must include a mineral wool infill

Type C: 130mm thick partition with double layer 15mm 'type 5' grade plasterboard on Each face of steel studs and a mineral wool infill.

*In all cases it is assumed the partition will be of a design where the boards on the exposed face will remain essentially intact and in place for at least 90% of the required integrity period.*



# PFC Corofil Intumescent Conduit

## Fire rating when installed in a 150mm horizontal concrete floor slab

% of cross section area within Intumescent Conduit that is filled with cables	Minimum length of Intumescent Conduit (mm)	Maximum integrity performance
Empty	160	240mins
1% - 100% Cat 5E/Cat 5 and/or power cables	160	240 mins
40% - 60% Fibre optic cables AND 40% - 60% power cables	160	60 mins
61% - 99% Fibre optic cables AND 1% - 39% power cables	160	30
0% - 100% Fibre optic cables	160	30

## Fire rating when installed through a 50mm PFC Corofil Coated Panel installed in a 150mm horizontal concrete floor slab

% of cross section area within Intumescent Conduit that is filled with cables	Minimum length of Intumescent Conduit (mm)	Maximum integrity performance
Empty	100	120 mins
1% - 100% Cat 5E/Cat 5 and/or power cables	100	180 mins

## Approved cable types and sizes

PFC Corofil Intumescent Conduit should only be used with the following cable types:

- Multi-core 'power' cables including copper conductors and sheathed with PVC, with or without steel wire armour. The maximum outside diameter of power cables should be 25mm.
- CAT5E or CAT5 communications cables with nominal 6mm maximum outside diameter.
- Fibre optic cables with nominal 6mm maximum outside diameter.

Please order from our technical sales office.

**PFC Corofil**  
 Units 3-4 King George Trading Estate  
 Davis Road  
 Chessington  
 Surrey KT9 1TT

**Tel: + 44 (0) 208 391 0533**  
**Fax: + 44 (0) 208 391 2723**  
**Email: [sales@pfc-corofil.co.uk](mailto:sales@pfc-corofil.co.uk)**  
**[www.pfc-corofil.co.uk](http://www.pfc-corofil.co.uk)**