PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Supplied by Polypipe Building Services

PFC Corofil Intumescent Pipe Collar CIPC

(previous product known as PFC Corofil Firestop Collars)

Benefits of new product:

- Tested to the most recent fire testing standards
- Greater scope of test data
- 2-3 day lead time
- Switched to a UK supplier – quicker availability
- Continuous development programme
- Lower profile and 3 fixing tabs - easier installation

PP Code	Product Description	Data Sheet Reference Number
1625.40R	PFC CIPC INTUMSCENT PIPE COLLAR 40mm	TDSCIPC
1625.55R	PFC CIPC INTUMSCENT PIPE COLLAR 55mm	TDSCIPC
1625.63R	PFC CIPC INTUMSCENT PIPE COLLAR 63mm	TDSCIPC
1625.75R	PFC CIPC INTUMSCENT PIPE COLLAR 75mm	TDSCIPC
1625.82R	PFC CIPC INTUMSCENT PIPE COLLAR 82mm	TDSCIPC
1625.90R	PFC CIPC INTUMSCENT PIPE COLLAR 90mm	TDSCIPC
1625.110R	PFC CIPC INTUMSCENT PIPE COLLAR 110mm	TDSCIPC
1625.125R	PFC CIPC INTUMSCENT PIPE COLLAR 125mm	TDSCIPC
1625.160R	PFC CIPC INTUMSCENT PIPE COLLAR 160mm	TDSCIPC
1625.200R	PFC CIPC INTUMSCENT PIPE COLLAR 200mm	TDSCIPC
1625.250R	PFC INTUMESCENT PALM COLLAR 250mm	TDPALM
1625.315R	PFC INTUMESCENT PALM COLLAR 315mm	TDPALM

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Product Technical Data Sheet:

TDSCIPC

PFC Corofil Intumescent Pipe Collars CIPC

ETA Number: 20/1151
20/1147

SERVICE PENETRATIONS

NBS

ASFP

Revision 1 - 03/08/2020

Technical Description of Product

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

PFC Corofil Intumescent Pipe Collars are designed and tested to provide a fire-resistant seal in flexible walls, rigid walls, rigid floors, and PFC Corofil Coated panels where they have been penetrated by service penetrations containing plastic pipes and metallic pipes with insulation.

PFC Corofil Intumescent Pipe Collars have been tested to EN1366-3 and offer fire resistance periods of up to EI240 for differing services and wall/floor constructions. They are manufactured with an intumescent coating incorporated in a thin steel casing which are available 30mm deep and 40mm deep and up to 250mm diameter. In the event of a fire the intumescent will expand when heated, providing a closure of combustible pipes to prevent the passage of fire between compartments.

PFC Corofil Intumescent Pipe Collars are supplied in assembled form without fixings. The collar is wrapped around the pipe at the soffit or on both sides of the wall. The annular gap around the pipes should be sealed using PFC Corofil Acoustic Intumescent Sealant.

Intended Use

The intended use of PFC Corofil Intumescent Pipe Collars is to reinstate the fire resistance performance of wall and floor constructions where they are penetrated by various combustible pipe services.

The specific elements of construction that PFC Corofil Intumescent Pipe Collars may be used with is listed under **Substrates** on page 5 of this data sheet.

This data sheet shows the only applications the product has been tested in. Please ensure the product has been tested in and is suitable for your application (see PFC Corofil terms and conditions 13.1.1).

Key Points

Conditioned to Type X: Intended for conditions exposed to weathering -20ºC to +70ºC.
Tested in accordance with EOTA TR024. Products for penetration seals intended for outdoor use exposed to weathering – rain, UV, high temperatures, frost and frost thaw in winter.

PFC Corofil Intumescent Pipe Collars have an assumed working life of 10 years.
The indications of a working life can not be assumed as a guarantee given by PFC Corofil, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

Technical Data

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Specification

Description	Result	Test Standard
Pipe Diameter	32mm, 40mm, 50mm, 55mm, 63mm, 75mm, 82mm, 90mm, 100mm, 110mm, 125mm, 140mm, 160mm, 200mm, 250mm,	
Plastic Pipe Material	PVC-U, PVC-C, ABS, SAN+ PVC, PE-HD, PE, PP	
Fire Resistance Rigid Floors	Up to EI240 (fixed to the underside)	EN1366-3:2009
Fire Resistance Flexible & Rigid Walls	Up to EI120 (fixed one on each side)	EN1366-3:2009
Expansion Ratio	20:1	EOTA TR 024
Expansion Pressure N/mm^2	1.30	EOTA TR 024
Working Temperature	-20°C to +70°C	
Colour/Appearance	Red Steel casing with 3 fixing tabs	

Fixing Detail:		
Flexible Walls	3No. 6mm x 65mm Steel toggle anchor	
Rigid walls & Rigid Floors	3No. 8mm ø x 60mm FSA with M6 Hex head bolts 3No. 4mm x 70mm Wood screws with penny washers 3No. 40mm hammer fixings	
Coated panel	3No. 80mm pigtails	

Installation Instructions

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

- PFC Corofil Intumescent Pipe Collars provide a penetration seal with specific combustible pipes, single pipes only. See Performance Data tables from page 6 for details.
- Ensure that the aperture and penetration to be sealed is free from dust, grease and obstructions which will affect a flush fit of the PFC Corofil Intumescent Pipe Collar to the surface.
- Ensure that the substrates and services have been tested for use with the PFC Corofil Intumescent Pipe Collar and that the site conditions are within the application specification.
- Apertures for pipe penetrations shall be separated by a minimum 200mm.
- Services in walls shall be supported at maximum 400mm from the face of the separating element on both sides.
- Services in floors shall be supported at maximum 400mm from the top surface of the floor.
- An annular gap, maximum 10mm, is required around the services and should be sealed using PFC Corofil Acoustic Intumescent Sealant (see Technical Datasheet TDSCAIS for details) before installing the PFC Corofil Intumescent Pipe Collar.
- Place the collar around the pipe and hold in place using the slide clip to slip through the loop and bend back on itself to secure the collar tightly.
- Slide the collar into place against the separating element ensuring a flush fit.
- Fix the collar through each of the 3 lugs to the separating element using the correct fixings for the substrate the collar is being installed against (see table on page 3 for correct fixings).

Installation Instructions

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Substrates

- Flexible walls: PFC Corofil Intumescent Pipe Collars can be installed against flexible walls a minimum 100mm thick, comprising of metal or timber studs lined on both sides with 2 layers of 12.5mm 'type F' gypsum plasterboards according to EN520. In timber stud walls, no part of the penetration shall be closer than 100mm to the timber stud. A minimum 100mm of either class A1 or A2 insulation according to EN13501-1 shall be provided within the cavity between the penetration and the stud.
- Rigid walls: Minimum 100mm thick and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.
- Rigid floors: Minimum 150mm thick and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m^3.
- PFC Corofil Coated Panel system.

The supporting construction must be classified in accordance with EN13501-2 for the required fire resistance period.

Terminology

Fire resistance classes:

E = Integrity. The length of time it takes for the fire to pass to the non fire side.
I = Insulation. The length of time it takes for the heat of the fire to pass to the non fire side.

Furnace classification:

U/U = Uncapped in the furnace/Uncapped outside the furnace
U/C = Uncapped in the furnace/Capped outside the furnace
C/U = Capped inside the furnace/Uncapped outside the furnace

Performance Data

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Walls minimum thickness 100mm
Flexible or Rigid Wall
PVC-u Pipes according to EN1452

PFC Corofil Intumescent Pipe Collars installed on **both sides** of a flexible or rigid wall, minimum thickness 100mm; PVC-u pipes			
Penetration Specification	**Collar Reference**	**Annulus Space**	**Classification**
PVC pipe 32mm ø 1.8mm wall thickness	32mm x 30mm x 4mm CIPC	10mm	EI120 U/C
PVC pipe 40mm ø 1.8mm wall thickness	40mm x 30mm x 4mm CIPC		
PVC pipe 55mm ø 2.3mm – 3.0mm wall thickness	55mm x 30mm x 6mm CIPC		
PVC pipe 63mm ø 2.3mm – 3.0mm wall thickness	63mm x 30mm x 6mm CIPC		
PVC pipe 75mm ø 3.1mm – 4.8mm wall thickness	75mm x 30mm x 8mm CIPC		
PVC pipe 82mm ø 3.1mm – 4.8mm wall thickness	82mm x 30mm x 8mm CIPC		
PVC pipe 90mm ø 4.2mm – 7.4mm wall thickness	90mm x 30mm x 10mm CIPC		
PVC pipe 110mm ø 4.2mm – 7.4mm wall thickness	110mm x 30mm x 10mm CIPC		
PVC pipe 125mm ø 6.0mm wall thickness	125mm x 40mm x 12mm CIPC		
PVC pipe 160mm ø 6.2mm – 9.5mm wall thickness	160mm x 40mm x 18mm CIPC		

PE Pipes according to EN ISO 15494

PFC Corofil Intumescent Pipe Collars installed on **both sides** of a flexible or rigid wall, minimum thickness 100mm; PE pipes			
Penetration Specification	**Collar Reference**	**Annulus Space**	**Classification**
PE pipe 32mm ø 2.9mm wall thickness	32mm x 30mm x 4mm CIPC	10mm	EI120 U/C
PE pipe 40mm ø 2.9mm wall thickness	40mm x 30mm x 4mm CIPC		
PE pipe 55mm ø 2.9mm – 4.4mm wall thickness	55mm x 30mm x 6mm CIPC		
PE pipe 63mm ø 2.9mm – 4.4mm wall thickness	63mm x 30mm x 6mm CIPC		
PE pipe 75mm ø 2.8mm – 6.7mm wall thickness	75mm x 30mm x 8mm CIPC		
PE pipe 82mm ø 2.8mm – 6.7mm wall thickness	82mm x 30mm x 8mm CIPC		
PE pipe 90mm ø 2.7mm – 10.0mm wall thickness	90mm x 30mm x 10mm CIPC		
PE pipe 110mm ø 2.7mm – 10.0mm wall thickness	110mm x 30mm x 10mm CIPC		
PE pipe 125mm ø 3.1mm wall thickness	125mm x 40mm x 12mm CIPC		
PE pipe 160mm ø 4.9mm – 9.5mm wall thickness	160mm x 40mm x 18mm CIPC		

Performance Data

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Walls minimum thickness 100mm
Flexible or Rigid Wall
PP Pipes according to EN1451

PFC Corofil Intumescent Pipe Collars installed on **both sides** of a flexible or rigid wall, minimum thickness 100mm; PP pipes			
Penetration Specification	**Collar Reference**	**Annulus Space**	**Classification**
PP pipe 32mm ø 2.9mm wall thickness	32mm x 30mm x 4mm CIPC	10mm	EI120 U/C
PP pipe 40mm ø 2.9mm wall thickness	40mm x 30mm x 4mm CIPC		
PP pipe 55mm ø 2.9mm – 4.4mm wall thickness	55mm x 30mm x 6mm CIPC		
PP pipe 63mm ø 2.9mm – 4.4mm wall thickness	63mm x 30mm x 6mm CIPC		
PP pipe 75mm ø 2.8mm – 6.7mm wall thickness	75mm x 30mm x 8mm CIPC		
PP pipe 82mm ø 2.8mm – 6.7mm wall thickness	82mm x 30mm x 8mm CIPC		
PP pipe 90mm ø 2.7mm – 10.0mm wall thickness	90mm x 30mm x 10mm CIPC		
PP pipe 110mm ø 2.7mm – 10.0mm wall thickness	110mm x 30mm x 10mm CIPC		
PP pipe 125mm ø 3.1mm wall thickness	125mm x 40mm x 12mm CIPC		
PP pipe 160mm ø 4.0mm – 14.6mm wall thickness	160mm x 40mm x 18mm CIPC		

Rigid Wall
PP Pipes according to EN 1451

PFC Corofil Intumescent Pipe Collars installed on **both sides** of a rigid wall, minimum thickness 100mm; PP pipes			
Penetration Specification	**Collar Reference**	**Annulus Space**	**Classification**
PP pipe 110mm ø 2.7mm wall thickness	110mm x 30mm x 10mm CIPC	10mm	EI120 U/U
PP pipe 160mm ø 4.0mm wall thickness	160mm x 40mm x 18mm CIPC		EI120 U/U
PP pipe 250mm ø 6.2mm wall thickness	250mm x 40mm x 24mm CIPC		EI120 U/C

Performance Data

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Walls minimum thickness 100mm
PFC Corofil Coated Panel installed as a double layer within the wall
PVC-u Pipes according to EN1452

PFC Corofil Intumescent Pipe Collars installed on **each outer face** of a double layer of **PFC Corofil Coated Panel 50mm** within a flexible or rigid wall, minimum thickness 100mm. Maximum aperture 730mm wide x 1200mm high; PVC-u pipes			
Penetration Specification	**Collar Reference**	**Penetration Formation**	**Classification**
PVC pipe 32mm ø 1.8mm wall thickness	32mm x 30mm x 4mm CIPC	Cluster Formation of pipes with 0mm separation There must be a minimum of 50mm from the edge of the seal	EI120 U/C
PVC pipe 40mm ø 1.8mm wall thickness	40mm x 30mm x 4mm CIPC		
PVC pipe 55mm ø 1.8mm – 2.3mm wall thickness	55mm x 30mm x 6mm CIPC		
PVC pipe 63mm ø 2.3mm – 3.0mm wall thickness	63mm x 30mm x 6mm CIPC		
PVC pipe 75mm ø 3.1mm – 4.8mm wall thickness	75mm x 30mm x 8mm CIPC		
PVC pipe 82mm ø 3.1mm – 4.8mm wall thickness	82mm x 30mm x 8mm CIPC		
PVC pipe 90mm ø 4.2mm – 7.4mm wall thickness	90mm x 30mm x 10mm CIPC		
PVC pipe 110mm ø 4.2mm – 7.4mm wall thickness	110mm x 30mm x 10mm CIPC		
PVC pipe 125mm ø 6mm wall thickness	125mm x 40mm x 12mm CIPC		
PVC pipe 160mm ø 6.2mm – 9.5mm wall thickness	160mm x 40mm x 18mm CIPC		

PE Pipes according to EN ISO 15494

PFC Corofil Intumescent Pipe Collars installed on **each outer face** of a double layer of **PFC Corofil Coated Panel 50mm** within a flexible or rigid wall, minimum thickness 100mm. Maximum aperture 730mm wide x 1200mm high; PE pipes			
Penetration Specification	**Collar Reference**	**Penetration Formation**	**Classification**
PE pipe 32mm ø 2.9mm wall thickness	32mm x 30mm x 4mm CIPC	Cluster Formation of pipes with 0mm separation There must be a minimum of 50mm from the edge of the seal	EI120 U/C
PE pipe 40mm ø 2.9mm wall thickness	40mm x 30mm x 4mm CIPC		
PE pipe 55mm ø 2.9mm – 4.4mm wall thickness	55mm x 30mm x 6mm CIPC		
PE pipe 63mm ø 2.9mm – 4.4mm wall thickness	63mm x 30mm x 6mm CIPC		
PE pipe 75mm ø 2.8mm – 6.7mm wall thickness	75mm x 30mm x 8mm CIPC		
PE pipe 82mm ø 2.8mm – 6.7mm wall thickness	82mm x 30mm x 8mm CIPC		
PE pipe 90mm ø 2.7mm – 10.0mm wall thickness	90mm x 30mm x 10mm CIPC		
PE pipe 110mm ø 2.7mm – 10.0mm wall thickness	110mm x 30mm x 10mm CIPC		
PE pipe 125mm ø 3.1mm wall thickness	125mm x 40mm x 12mm CIPC		
PE pipe 160mm ø 4.9mm – 9.5mm wall thickness	160mm x 40mm x 18mm CIPC		

Performance Data

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Walls minimum thickness 100mm
PFC Corofil Coated Panel installed as a double layer within the wall
PP Pipes according to EN1451

PFC Corofil Intumescent Pipe Collars installed on **each outer face** of a double layer of **PFC Corofil Coated Panel 50mm** within a flexible or rigid wall, minimum thickness 100mm. Maximum aperture 730mm wide x 1200mm high; PP pipes			
Penetration Specification	**Collar Reference**	**Penetration Formation**	**Classification**
PP pipe 32mm ø 2.9mm wall thickness	32mm x 30mm x 4mm CIPC	Cluster Formation of pipes with 0mm separation There must be a minimum of 50mm from the edge of the seal	EI120 U/C
PP pipe 50mm ø 2.9mm wall thickness	50mm x 30mm x 4mm CIPC		
PP pipe 55mm ø 2.9mm – 4.4mm wall thickness	55mm x 30mm x 6mm CIPC		
PP pipe 63mm ø 2.9mm – 4.4mm wall thickness	63mm x 30mm x 6mm CIPC		
PP pipe 75mm ø 2.8mm – 6.7mm wall thickness	75mm x 30mm x 8mm CIPC		
PP pipe 82mm ø 2.8mm – 6.7mm wall thickness	82mm x 30mm x 8mm CIPC		
PP pipe 90mm ø 2.7mm – 10.0mm wall thickness	90mm x 30mm x 10mm CIPC		
PP pipe 110mm ø 2.7mm – 10.0mm wall thickness	110mm x 30mm x 10mm CIPC		
PP pipe 125mm ø 3.1mm wall thickness	125mm x 40mm x 12mm CIPC		

Walls minimum thickness 100mm
PFC Corofil Coated Panel installed as a pattress installation to each face of a wall
PVC-u Pipes according to EN1452

PFC Corofil Intumescent Pipe Collars installed on **each outer face** of a pattress installation of **PFC Corofil Coated Panel 50mm** within a flexible or rigid wall, minimum thickness 100mm. Maximum aperture 730mm wide x 1200mm high; PVC-u pipes			
Penetration Specification	**Collar Reference**	**Penetration Formation**	**Classification**
PVC pipe 32mm ø 1.8mm wall thickness	32mm x 30mm x 4mm CIPC	Cluster Formation of pipes with 0mm separation There must be a minimum of 50mm from the edge of the seal	EI120 U/C
PVC pipe 40mm ø 1.8mm wall thickness	40mm x 30mm x 4mm CIPC		
PVC pipe 55mm ø 1.8mm – 2.3mm wall thickness	55mm x 30mm x 6mm CIPC		
PVC pipe 63mm ø 2.3mm – 3.0mm wall thickness	63mm x 30mm x 6mm CIPC		
PVC pipe 75mm ø 3.1mm – 4.8mm wall thickness	75mm x 30mm x 8mm CIPC		
PVC pipe 82mm ø 3.1mm – 4.8mm wall thickness	82mm x 30mm x 8mm CIPC		
PVC pipe 90mm ø 4.2mm – 7.4mm wall thickness	90mm x 30mm x 10mm CIPC		
PVC pipe 110mm ø 4.2mm – 7.4mm wall thickness	110mm x 30mm x 10mm CIPC		
PVC pipe 125mm ø 6.0mm wall thickness	125mm x 40mm x 12mm CIPC		
PVC pipe 160mm ø 6.2mm – 9.5mm wall thickness	160mm x 40mm x 18mm CIPC		

Performance Data

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PASSIVE FIRE PROTECTION SOLUTIONS

Walls minimum thickness 100mm
PFC Corofil Coated Panel installed as a pattress installation to each face of a wall
PE Pipes according to EN ISO 15494

PFC Corofil Intumescent Pipe Collars installed on **each outer face** of a pattress installation of **PFC Corofil Coated Panel 50mm** within a flexible or rigid wall, minimum thickness 100mm. Maximum aperture 730mm wide x 1200mm high; PE pipes			
Penetration Specification	**Collar Reference**	**Penetration Formation**	**Classification**
PE pipe 32mm ø 2.9mm wall thickness	32mm x 30mm x 4mm CIPC	Cluster Formation of pipes with 0mm separation There must be a minimum of 50mm from the edge of the seal	EI120 U/C
PE pipe 40mm ø 2.9mm wall thickness	40mm x 30mm x 4mm CIPC		
PE pipe 55mm ø 2.9mm – 4.4mm wall thickness	55mm x 30mm x 6mm CIPC		
PE pipe 63mm ø 2.9mm – 4.4mm wall thickness	63mm x 30mm x 6mm CIPC		
PE pipe 75mm ø 2.8mm – 6.7mm wall thickness	75mm x 30mm x 8mm CIPC		
PE pipe 82mm ø 2.8mm – 6.7mm wall thickness	82mm x 30mm x 8mm CIPC		
PE pipe 90mm ø 2.7mm – 10.0mm wall thickness	90mm x 30mm x 10mm CIPC		
PE pipe 110mm ø 2.7mm – 10.0mm wall thickness	110mm x 30mm x 10mm CIPC		
PE pipe 125mm ø 3.1mm wall thickness	125mm x 40mm x 12mm CIPC		
PE pipe 160mm ø 4.9mm - 9.5mm wall thickness	160mm x 40mm x 18mm CIPC		

PP Pipes according to EN1451

PFC Corofil Intumescent Pipe Collars installed on **each outer face** of a pattress installation of **PFC Corofil Coated Panel 50mm** within a flexible or rigid wall, minimum thickness 100mm. Maximum aperture 730mm wide x 1200mm high; PP pipes			
Penetration Specification	**Collar Reference**	**Penetration Formation**	**Classification**
PP pipe 32mm ø 2.9mm wall thickness	32mm x 30mm x 4mm CIPC	Cluster Formation of pipes with 0mm separation There must be a minimum of 50mm from the edge of the seal	EI120 U/C
PP pipe 40mm ø 2.9mm wall thickness	40mm x 30mm x 4mm CIPC		
PP pipe 55mm ø 2.9mm – 4.4mm wall thickness	55mm x 30mm x 6mm CIPC		
PP pipe 63mm ø 2.9mm – 4.4mm wall thickness	63mm x 30mm x 6mm CIPC		
PP pipe 75mm ø 2.8mm – 6.7mm wall thickness	75mm x 30mm x 8mm CIPC		
PP pipe 82mm ø 2.8mm – 6.7mm wall thickness	82mm x 30mm x 8mm CIPC		
PP pipe 90mm ø 2.7mm – 10.0mm wall thickness	90mm x 30mm x 10mm CIPC		
PP pipe 110mm ø 2.7mm – 10.0mm wall thickness	110mm x 30mm x 10mm CIPC		
PP pipe 125mm ø 3.1mm wall thickness	125mm x 40mm x 12mm CIPC		
PP pipe 160mm ø 4.0mm – 14.6mm wall thickness	160mm x 40mm x 18mm CIPC		

Performance Data

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Floor minimum thickness 150mm
Rigid Floor
PVC-u Pipes according to EN1452

PFC Corofil Intumescent Pipe Collars installed on **the underside** of a rigid floor, minimum thickness 150mm; PVC-u pipes			
Penetration Specification	**Collar Reference**	**Annulus Space**	**Classification**
PVC pipe 32mm ø 1.8mm wall thickness	32mm x 30mm x 4mm CIPC	10mm	EI240 U/C
PVC pipe 40mm ø 1.8mm wall thickness	40mm x 30mm x 4mm CIPC		
PVC pipe 55mm ø 2.3mm – 3.0mm wall thickness	55mm x 30mm x 6mm CIPC		
PVC pipe 63mm ø 2.3mm – 3.0mm wall thickness	63mm x 30mm x 6mm CIPC		
PVC pipe 75mm ø 3.1mm – 4.8mm wall thickness	75mm x 30mm x 8mm CIPC		
PVC pipe 82mm ø 3.1mm – 4.8mm wall thickness	82mm x 30mm x 8mm CIPC		
PVC pipe 90mm ø 4.2mm – 7.4mm wall thickness	90mm x 30mm x 10mm CIPC		
PVC pipe 110mm ø 4.2mm – 7.4mm wall thickness	110mm x 30mm x 10mm CIPC		
PVC pipe 125mm ø 6.0mm wall thickness	125mm x 40mm x 12mm CIPC		
PVC pipe 160mm ø 6.2mm - 9.5mm wall thickness	160mm x 40mm x 18mm CIPC		

PE Pipes according to EN ISO 15494

PFC Corofil Intumescent Pipe Collars installed on **the underside** of a rigid floor, minimum thickness 150mm; PE pipes			
Penetration Specification	**Collar Reference**	**Annulus Space**	**Classification**
PE pipe 32mm ø 2.9mm wall thickness	32mm x 30mm x 4mm CIPC	10mm	EI240 U/C
PE pipe 40mm ø 2.9mm wall thickness	40mm x 30mm x 4mm CIPC		
PE pipe 55mm ø 2.9mm – 4.4mm wall thickness	55mm x 30mm x 6mm CIPC		
PE pipe 63mm ø 2.9mm – 4.4mm wall thickness	63mm x 30mm x 6mm CIPC		
PE pipe 75mm ø 2.8mm – 6.7mm wall thickness	75mm x 30mm x 8mm CIPC		
PE pipe 82mm ø 2.8mm – 6.7mm wall thickness	82mm x 30mm x 8mm CIPC		
PE pipe 90mm ø 2.7mm – 10.0mm wall thickness	90mm x 30mm x 10mm CIPC		
PE pipe 110mm ø 2.7mm – 10.0mm wall thickness	110mm x 30mm x 10mm CIPC		
PE pipe 125mm ø 3.1mm wall thickness	125mm x 40mm x 12mm CIPC		
PE pipe 160mm ø 4.9mm – 9.5mm wall thickness	160mm x 40mm x 18mm CIPC		

Performance Data

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Floor minimum thickness 150mm
Rigid Floor
PP Pipes according to EN1451

PFC Corofil Intumescent Pipe Collars installed on **the underside** of a rigid floor, minimum thickness 150mm; PP pipes			
Penetration Specification	**Collar Reference**	**Annulus Space**	**Classification**
PP pipe 32mm ø 2.9mm wall thickness	32mm x 30mm x 4mm CIPC	10mm	EI240 U/C
PP pipe 40mm ø 2.9mm wall thickness	40mm x 30mm x 4mm CIPC		
PP pipe 55mm ø 2.9mm – 4.4mm wall thickness	55mm x 30mm x 6mm CIPC		
PP pipe 63mm ø 2.9mm – 4.4mm wall thickness	63mm x 30mm x 6mm CIPC		
PP pipe 75mm ø 2.8mm – 6.7mm wall thickness	75mm x 30mm x 8mm CIPC		
PP pipe 82mm ø 2.8mm – 6.7mm wall thickness	82mm x 30mm x 8mm CIPC		
PP pipe 90mm ø 2.7mm – 10.0mm wall thickness	90mm x 30mm x 10mm CIPC		
PP pipe 110mm ø 2.7mm – 10.0mm wall thickness	110mm x 30mm x 10mm CIPC		
PP pipe 125mm ø 3.1mm wall thickness	125mm x 40mm x 12mm CIPC		
PP pipe 160mm ø 4.0mm - 14.6mm wall thickness	160mm x 40mm x 18mm CIPC		

PP Pipes according to EN1451

PFC Corofil Intumescent Pipe Collars installed on **both sides** of a rigid floor, minimum thickness 150mm; PP pipes			
Penetration Specification	**Collar Reference**	**Annulus Space**	**Classification**
PP pipe 110mm ø 2.7mm wall thickness	110mm x 30mm x 10mm CIPC	10mm	EI120 U/U
PP pipe 160mm ø 4.0mm wall thickness	160mm x 40mm x 18mm CIPC		EI120 C/U

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Doc Reference		TDSCIPC
Revision 1		
PB: SE	CB: CI	AB: UL
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PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Pipework

Palm Collar

Application

Palm Collars comprise of a range of pipe closure devices designed to be fitted around large plastic pipes where they penetrate fire resisting constructions.

Under fire conditions the intumescent material within the collar expands to crush the softening pipe and fill the resultant opening, maintaining the fire integrity and insulation performance of concrete block or masonry walls and concrete floors.

Description

Palm Collars are manufactured from 1mm thick steel painted red for 225mm and 250mm pipes and 0.7mm stainless steel for the collars 275mm to 400mm. Both types are lined with two bands of intumescent, one band at each end of the cylinder leaving a gap in the middle.

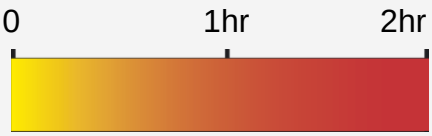
Palm Collars are not suitable for pipe systems ventilated to the Atmosphere.

Fire rating table for 225mm and 250mm Palm Collars

Pipe Material	Pipe diameter/ wall thickness (mm)	Intumescent depth & thickness (mm)	Wall/floor	Integrity/ Insulation (minutes)
PVC or HDPE	225/6	60 x 24 two pieces	Surface mounted wall or floor	240/240
PVC or HDPE	250/6	60 x 24 two pieces	Surface mounted wall or floor	240/240
Polypropylene	225/22	60 x 24 two pieces	Surface mounted wall only	120/120
Polypropylene	225/22	60 x 24 two pieces	Cast-in wall only	180/180
Polypropylene	250/22	60 x 24 two pieces	Surface mounted wall only	90/90
Polypropylene	250/22	60 x 24 two pieces	Cast-in wall only	180/180
Polypropylene	225/22	70 x 24 two pieces	Surface mounted wall only	180/180
Polypropylene	225/22	70 x 24 two pieces	Cast-in wall only	240/240
Polypropylene	250/22	70 x 24 two pieces	Surface mounted wall only	120/120
Polypropylene	250/22	70 x 24 two pieces	Cast-in wall only	180/180

FIRE RATINGS

Tested to BS476 Part 20:1987



Fire Rating

TECHNICAL INFORMATION

Available from our technical sales office.

Email tech@pfc-corofil.com for:

- Safety Data Sheet (SDPALM)
- Installation Instructions (MSPALM)

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ASFP

This data sheet shows the only applications the product has been tested in. Please ensure the product has been tested in, and is suitable for your application (see PFC Corofil terms and conditions 13.1.1).

PFC COROFIL
PASSIVE FIRE PROTECTION SOLUTIONS

Pipework

Palm Collar

Fire rating for 275mm and above when installed around PVC, cPVC, PE, MDPE, HDPE & uPVC pipes in concrete block or masonry walls and concrete floors

Pipe O/D (mm)	Thickness of intumescent material (mm)	Collar length (mm)	Fire rating Integrity/ Insulation (minutes)
275	24	125	120/120
300	26	125	120/120
325	28	125	120/120
350	32	125	120/120
375	36	125	120/120
400	40	125	120/120

Fire rating for 275mm and above when installed around Polypropylene pipes in concrete block or masonry walls and concrete floors

Pipe O/D (mm)	Thickness of intumescent material (mm)	Collar length (mm)	Fire rating Integrity/ Insulation (minutes)
275	24	200	120/120
300	26	200	120/120
325	28	200	120/120
350	32	200	120/120
375	36	200	120/120
400	42	200	120/120

Please order from our technical sales office.

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