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European Technical **Assessment**

ETA 15/0489 of 14/09/2015

Technical Assessment Body issuing th of the Regulation (EU) No 305/2011:	e ETA and designated according to Article 29
Trade name of the construction product	PipeBloc PCP
Product family to which the construction product belongs	Fire Stopping and Sealing Product Penetration Seals
Manufacturer	FSI Ltd
	Westminster Industrial Estate
	Tamworth Rd
	Measham
	DE12 7DS
Manufacturing plant(s)	E/055
This European Technical Assessment contains	19 pages including 1 Annex(es) which form an integral part of this assessment.
	Annex(es) A - C Contain(s) confidential information and is/are not included in the European Technical Assessment when that assessment is publicly available.
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	

General Comments

- This European Technical Assessment is issued by Warrington Certification Limited on the basis of ETAG 026 Fire Protective Products Part 1: General June 2013, and Part 2: Fire Stopping and Fire Sealing Products Aug 2011, Used as European Assessment Document.
- 2. This European Technical Assessment is not to be transferred to manufacturers or agents of manufacturers other than those indicated on page 1, or manufacturing plants other than those indicated on page 1.



1 SPECIFIC CONDITIONS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical Description of the Product

(Detailed information and data are given in Annexes)

- 1) PipeBloc PCP is installed round combustible pipes to form a penetration seal used to reinstate the fire resistance performance of wall and floor constructions, where they have been provided with apertures for the penetration of combustible pipe services.
- 2) PipeBloc PCP include an intumescent component incorporated into a mild steel case to close any gaps and joints and provide a closure of combustible pipes when heated and to prevent the passage of fire.
- 3) PipeBloc PCP are supplied in assembled form, without fixings. The collar is wrapped around the pipe at the soffit or both faces of walls, depending on application. Fixing specifications are detailed in Annex A.
- 4) PipeBloc PCP can be used with Pyrocoustic Sealant to seal the space between the combustible pipe and the aperture to close gap sizes as specified in Annex A.
- 5) The applicant has submitted a written declaration that the product and/or constituents of the product contains no substances which have been classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No. 1272/2008 and listed in the 'indicative list on dangerous substances' of the EGDS taking into account the installation conditions of the construction product and the release scenarios resulting from there.

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

The use catagory of PipeBloc PCP in relation to BWR 3 (Hygiene, health and environment) is IA1, S/W3.

6) External use- ETAG 026-2 (used as European Assessment Document EAD) Type X.



2 Specification Of The Intended Use In Accordance With The Relevant EAD

2.1 Intended Use

1) The intended use of PipeBloc PCP 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 the system PipeBloc PCP may be used is as follows:

Flexible walls: The wall must have a minimum thickness of 100 mm and comprise

timber or steel studs line on both faces with minimum 2 layers of 12.5 mm thick, 'Type F' Gypsum boards according to EN 520. In timber stud walls, no part of the penetration seal shall be closer than 100mm to a stud, and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1, is provided within the cavity between the

penetration seal and the stud.

Rigid walls: The wall must have a minimum thickness of 100 mm and comprise of

concrete, aerated concrete or masonry, with a minimum density of

650 km/m³.

Rigid floor: The floor must have a minimum thickness of 150 mm and comprise of

concrete, aerated concrete or masonry, with a minimum density of

650 km/m³.

- 2) The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.
- 3) The system PipeBloc PCP may be used to provide a penetration seal with specific combustible pipes, single only (for details see Annex A).
- 4) Apertures in the separating element shall be maximum 10 mm diameter oversize with respect to the pipe diameter. The remaining annular space/gap shall be infilled with Pyrocoustic Sealant. Apertures for the penetration of pipes shall be separated by a minimum of 200 mm.
- 5) The provisions made in this European Technical Assessment are based on an assumed working life of the system PipeBloc PCP of 10 years, The indications given on the working life cannot be interpreted as a guarantee given by the producer, 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.
- 6) Services in walls shall be supported at maximum 400mm from the face of the separating element for walls, and 400mm above the surface of the floor.



Use Category

Type X: Intended for use in conditions exposed to weathering.

Performance Of The Product And References To The Methods Used For Its Assessment

	Product Type: Collar	Intended use: Pipe Closure Device
Basic requirement for construction work	Basic Requirement	Performance
	BWR 1 Mechanical resistance and	d stability
	None	Not relevant
	BWR 2 Safety in case of f	ire
EN 13501-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	Annex A
	BWR 3 Hygiene, Health and the Er	nvironment
EN 1026:2000	Air permeability	No performance determined
ETAG 026-3 Annex C	Water permeability	No performance determined
Declaration by manufacturer	Release of dangerous substances	Use category IA1, S/W3 Declaration of manufacturer
	BWR 4 Safety in use	
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EOTA TR 001:2003	Adhesion	No performance determined
	BWR 5 Protection against n	oise
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	No performance determined
	BWR 6 Energy, Economy and Heat	Retention
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572		
EN12086	Water vapour permeability	No performance determined
	General aspects relating to fitnes	ss for use
EOTA TR 024:2009	Durability and serviceability	х
	BWR 7 Sustainable use of natural	resources
		No performance determined

3 Assessment And Verification Of Constancy Of Performance (Hereinafter AVCP) System Applied, With References To Its Legal base

According to the decision 1999/454/EC of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the Regulation (EU) No 305/2011) given in the following table apply:

Products	Intended uses	Level or Class	System
Fire stopping and fire sealing products	For fire compartmentation and / or fire protection or fire performance	Any	System 1

4 Technical Details Necessary For The Implementation Of The AVCP System, As Provided For In The Applicable EAD.

Tasks for the Manufacturer

Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this European technical assessment.

The manufacturer may only use constituent materials stated in the technical documentation of this European technical assessment.

The factory production control shall be in accordance with the Control Plan of 03.06.15 relating to the European Technical Assessment ETA— 15/0489 "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at Warrington Certification Limited.

The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

Other tasks of manufacturer

Additional information

The manufacturer shall provide a technical data sheet and an installation instruction with the following minimum information:

- (a) Technical data sheet:
 - Field of application:



- Building elements for which the penetration seal is suitable, type and properties of the building elements like minimum thickness, density, and in case of lightweight constructions – the construction requirements.
- Services for which the penetration seal is suitable, type and properties of the services like material, diameter, thickness etc. in case of pipes including insulation materials; necessary/allowed supports/fixings (e.g. cable trays)
- Limits in size, minimum thickness etc. of the penetration seal

Construction of the penetration seal including the necessary components and additional products (e.g. backfilling material) with clear indication whether they are generic or specific (b) Installation instruction:

- Steps to be followed
- Procedure in case of retrofitting.

The manufacturer shall, on the basis of a contract, involve a body which is approved for the tasks referred to in section 3.1 in the field of linear joint seals seals in order to undertake the actions laid down in section 3.3. For this purpose, the "control plan" referred to in sections 3.2.1.1 and 3.2.2 shall be handed over by the manufacturer to the approved body or bodies involved.

The manufacturer shall make a declaration of conformity, stating that the construction product is in conformity with the provisions of the European technical assessment ETA 15/0489.

Tasks of approved bodies

The approved body shall perform the

- initial type-testing of the product,
- initial inspection of factory and of factory production control.
- continuous surveillance, assessment and approval of factory production control,

In accordance with the provisions laid down in the "Control Plan" of 03.06.15 relating to the European Technical Assessment 15/0489.

The approved body shall retain the essential points of its actions referred to above and state the results obtained and conclusions drawn in a written report.

The approved certification body involved by the manufacturer shall issue an EC certificate of conformity of the product stating the conformity with the provisions of this European technical assessment.

In cases where the provisions of the European technical assessment and its "Control Plan" are no longer fulfilled the certification body shall withdraw the certificate of conformity and inform the Warrington Certification Limited without delay.



Signatories

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Responsible Officer

N. Stoyanov* - Certification Engineer

Approved

C. Abbott* - Principal Certification Engineer

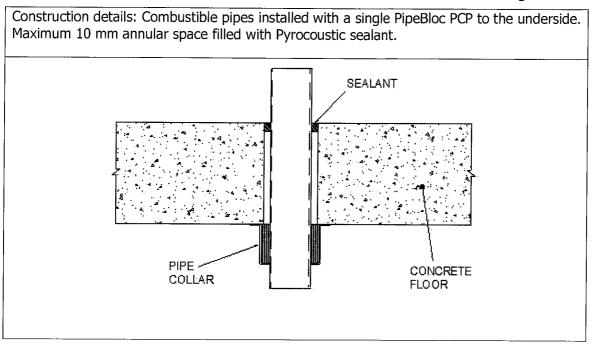
^{*} For and on behalf of Warrington Certification Limited.

Annex A

Resistance to Fire Classification of PipeBloc PCP

A.1 Floor construction with thickness of minimum 150 mm

A.1.1 Penetration seal with PipeBloc PCP installed on the underside of rigid floor



A.1.1.1 PVC-U pipes with PipeBloc PCP installed on the underside of rigid floor

	PipeBloc PCP, Face Fixe	d on the Underside of Rig	id Floor (min 150 r	nm thick) PVC-U Pipes			
Penetration Specification	Collar Reference	Intumescent Material	Annulus Space (mm)	Collar Fixing	Classification		
PVC Pipe 32 mm ø 1.8 mm wall thickness	32 mm PipeBloc PCP			` '			
PVC Pipe 40 mm ø 1.8 mm wall thickness	40 mm PipeBloc PCP	30 mm (W) x 4 mm (T)					
PVC Pipe 50 mm ø 1.8 mm wall thickness	50 mm PipeBloc PCP				EI 240 U/C		
PVC Pipe 55 mm ø 2.3- 3.0 mm wall thickness	55 mm PipeBloc PCP	30 mm (W) x 6 mm (T)		Face fixed on the underside of rigid floor 10 with 3No. Fischer FSA Ø8 x 60mm long, with M6 hexagon head bolts			
PVC Pipe 63 mm ø 2.3- 3.0 mm wall thickness	63 mm PipeBloc PCP	30 mm (w) x 0 mm (1)					
PVC Pipe 75 mm ø 3.1- 4.8 mm wall thickness	75 mm PipeBloc PCP	30 mm (W) x 8 mm (T)					
PVC Pipe 82 mm ø 3.1- 4.8 mm wall thickness	82 mm PipeBloc PCP	30 Hill (W) x 8 Hill (1)	10				
PVC Pipe 90 mm ø 4.2- 7.4 mm wall thickness	90 mm PipeBloc PCP						
PVC Pipe 100 mm ø 4.2- 7.4 mm wall thickness	100 mm Pipe Bloc PCP	30 mm (W) x 10 mm (T)					
PVC Pipe 110 mm ø 4.2- 7.4 mm wall thickness	110 mm Pipe Bloc PCP						
PVC Pipe 125 mm ø 6.0 mm wall thickness	125 mm PipeBloc PCP	40 mm (W) x 12 mm (T)					
PVC Pipe 140 mm ø 6.1- 7.5 mm wall thickness	140 mm PipeBloc PCP	40 mm (W) x 16 mm (T)					
PVC Pipe 160 mm ø 6.2- 9.5 mm wall thickness	160 mm PipeBloc PCP	40 mm (W) x 18 mm (T)					

A.1.1.2 PP pipes with PipeBloc PCP installed on the underside of rigid floor

	PipeBloc PCP, Face Fi	xed on the Underside of F	Rigid Floor (min 150) mm thick) PP Pipes	
Penetration Specification	Collar Reference	Intumescent Material	Annulus Space (mm)	Collar Fixing	Classification
PP Pipe 32 mm ø 2.9 mm wall thickness	32 mm PipeBloc PCP				
PP Pipe 40 mm ø 2.9 mm wall thickness	40 mm PipeBloc PCP	30 mm (W) x 4 mm (T) 30 mm (W) x 6 mm (T)			
PP Pipe 50 mm ø 2.9 mm wall thickness	50 mm PipeBloc PCP			Face fixed on the underside of rigid floor with 3No. Fischer FSA Ø8 x 60mm long, with M6 hexagon head bolts	EI 240 U/C
PP Pipe 55 mm ø 2.9-4.4 mm wall thickness	55 mm PipeBloc PCP				
PP Pipe 63 mm ø 2.9-4.4 mm wall thickness	63 mm PipeBloc PCP				
PP Pipe 75 mm ø 2.8-6.7 mm wall thickness	75 mm PipeBloc PCP	30 mm (W) x 8 mm (T)			
PP Pipe 82 mm ø 2.8-6.7 mm wall thickness	82 mm PipeBloc PCP		10		
PP Pipe 90 mm ø 2.7-10.0 mm wall thickness	90 mm PipeBloc PCP				
PP Pipe 100 mm ø 2.7- 10.0 mm wall thickness	100 mm Pipe Bloc PCP	30 mm (W) x 10 mm (T)			
PP Pipe 110 mm ø 2.7- 10.0 mm wall thickness	110 mm Pipe Bloc PCP		- 		
PP Pipe 125 mm ø 3.1 mm wall thickness	125 mm Pipe Bloc PCP	40 mm (W) x 12 mm (T)			
PP Pipe 140 mm ø 3.5-8.0 mm wall thickness	140 mm PipeBloc PCP	40 mm (W) x 16 mm (T)			
PP Pipe 160 mm ø 4.0- 14.6 mm wall thickness	160 mm Pipe Bloc PCP	40 mm (W) x 18 mm (T)			

A1.1.3 PE pipes with PipeBloc PCP installed on the underside of rigid floor

PE pipes according to EN ISO 15494 with PipeBloc PCP.

	PipeBloc PCP, Face Fixed on the Underside of Rigid Floor (min 150 mm thick) PE Pipes					
Penetration Specification	Collar Reference	Intumescent Material	Annulus Space (mm)	Collar Fixing	Classification	
PE Pipe 32 mm ø 2.9 mm wall thickness	32 mm PipeBloc PCP					
PE Pipe 40 mm ø 2.9 mm wall thickness	40 mm PipeBloc PCP	30 mm (W) x 4 mm (T) 30 mm (W) x 6 mm (T) 30 mm (W) x 8 mm (T) 30 mm (W) x 10 mm (T)				
PE Pipe 50 mm ø 2.9 mm wall thickness	50 mm PipeBloc PCP					
PE Pipe 55 mm ø 2.9-4.4 mm wall thickness	55 mm PipeBloc PCP					
PE Pipe 63 mm ø 2.9-4.4 mm wall thickness	63 mm PipeBloc PCP		10	Face fixed on the underside of rigid floor with 3No. Fischer FSA Ø8 x 60mm long, with	EI 240 U/C	
PE Pipe 75 mm ø 2.8-6.7 mm wall thickness	75 mm PipeBloc PCP					
PE Pipe 82 mm ø 2.8-6.7 mm wall thickness	82 mm PipeBloc PCP					
PE Pipe 90 mm ø 2.7-10.0 mm wall thickness	90 mm PipeBloc PCP		30 mm (W) x 10 mm (T)		M6 hexagon head bolts	
PE Pipe 100 mm ø 2.7- 10.0 mm wall thickness	100 mm Pipe Bloc PCP					
PE Pipe 110 mm ø 2.7- 10.0 mm wall thickness	110 mm Pipe Bloc PCP					
PE Pipe 125 mm ø 3.1 mm wall thickness	125 mm PipeBloc PCP					
PE Pipe 140 mm ø 3.9-5.8 mm wall thickness	140 mm Pipe Bloc PCP	40 mm (W) x 16 mm (T)				
PE Pipe 160 mm ø 4.9-9.5 mm wall thickness	160 mm Pipe Bloc PCP	40 mm (W) x 18 mm (T)				

A.1.2 Penetration seal with PipeBloc PCP installed on both sides of rigid floor

Construction details: Combustible pipes installed with a single PipeBloc PCP to both sides.

Maximum 10 mm annular space filled with Pyrocoustic sealant.

Fire callar

Pipe

Fire collar

A.1.2.1 Penetration seal with PipeBloc PCP installed on both sides of rigid floor

PipeBloc PCP, Face Fixed on Both Sides of Rigid Floor (min 150 mm thick) PP Pipes					
Penetration Specification	Collar Reference	Intumescent Material	Annulus Space (mm)	Collar Fixing	Classification
PP Pipe 110 mm ø 2.7 mm wall thickness	110 mm PipeBloc PCP	30 mm (W) x 10 mm (T)	10	Fixed on both faces of rigid floor with 3No. Fischer FSA Ø8 x 60mm long, with M6 hexagon head bolts	EI 120 U/U
PP Pipe 160 mm ø 4.0 mm wall thickness	160 mm PipeBloc PCP	40 mm (W) x 16 mm (T)	10		EI 120 C/U

A.2 Wall construction with thickness of minimum 100 mm

A.2.1 Penetration seal with PipeBloc PCP installed on both sides of flexible or rigid wall

Construction details: Combustible pipes installed with a single PipeBloc PCP to both sides. Maximum 10 mm annular space filled with Pyrocoustic sealant. PIPE PIPE COLLAR

COLLAR

PLASTERBOARDS

-INSULATION



A.2.1.1 PVC-U pipes with PipeBloc PCP installed on both sides of flexible or rigid wall

Pip	eBloc PCP, Face Fixed o	on Both Sides of Flexible o	r Rigid Wall (min 1	00 mm thick) PVC-U Pipe	s		
Penetration Specification	Collar Reference	Intumescent Material	Annulus Space (mm)	Collar Fixing	Classification		
PVC Pipe 32 mm ø 1.8 mm wall thickness	32 mm PipeBloc PCP						
PVC Pipe 40 mm ø 1.8 mm wall thickness	40 mm PipeBloc PCP	30 mm (W) x 4 mm (T)					
PVC Pipe 50 mm ø 1.8 mm wall thickness	50 mm PipeBloc PCP						
PVC Pipe 55 mm ø 2.3- 3.0 mm wall thickness	55 mm PipeBloc PCP	- 30 mm (W) x 6 mm (T) - 30 mm (W) x 8 mm (T)					
PVC Pipe 63 mm ø 2.3- 3.0 mm wall thickness	63 mm PipeBloc PCP		10	Fixed on both sides of the wall with a 6mm x 65mm long Fisher HM 6x65 S, steel toggle anchor	EI 120 U/C		
PVC Pipe 75 mm ø 3.1- 4.8 mm wall thickness	75 mm PipeBloc PCP						
PVC Pipe 82 mm ø 3.1- 4.8 mm wall thickness	82 mm PipeBloc PCP						
PVC Pipe 90 mm ø 4.2- 7.4 mm wall thickness	90 mm PipeBloc PCP	**					
PVC Pipe 100 mm ø 4.2- 7.4 mm wall thickness	100 mm Pipe Bloc PCP	30 mm (W) x 10 mm (T)	30 mm (W) x 10 mm (T)				
PVC Pipe 110 mm ø 4.2- 7.4 mm wall thickness	110 mm Pipe Bloc PCP						
PVC Pipe 125 mm ø 6.0 mm wall thickness	125 mm PipeBloc PCP	40 mm (W) x 12 mm (T)					
PVC Pipe 140 mm ø 6.1- 7.5 mm wall thickness	140 mm Pipe Bloc PCP	40 mm (W) x 16 mm (T)					
PVC Pipe 160 mm ø 6.2- 9.5 mm wall thickness	160 mm Pipe Bloc PCP	40 mm (W) x 18 mm (T)					

A.2.1.2 PP pipes with PipeBloc PCP installed on both sides of flexible or rigid wall

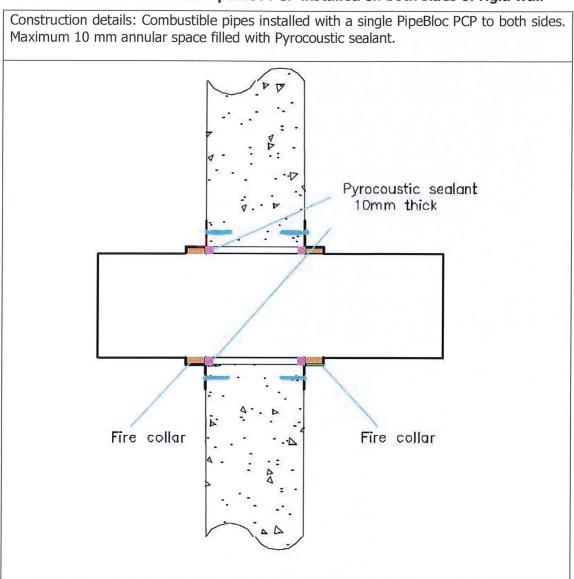
P	ipeBloc PCP, Face Fixed	on Both Sides of Flexible	or Rigid Wall (min	100 mm thick) PP Pipes			
Penetration Specification	Collar Reference	Intumescent Material	Annulus Space (mm)	Collar Fixing	Classification		
PP Pipe 32 mm ø 2.9 mm wall thickness	32 mm PipeBloc PCP		-				
PP Pipe 40 mm ø 2.9 mm wall thickness	40 mm PipeBloc PCP	30 mm (W) x 4 mm (T)					
PP Pipe 50 mm ø 2.9 mm wall thickness	50 mm PipeBloc PCP						
PP Pipe 55 mm ø 2.9-4.4 mm wall thickness	55 mm PipeBloc PCP	30 mm (W) x 6 mm (T)	20 mm (M) v 6 mm (T)				
PP Pipe 63 mm ø 2.9-4.4 mm wall thickness	63 mm PipeBloc PCP	30 mm (W) x 0 mm (1)	10	Fixed on both sides of the wall with a 6mm x 65mm long Fisher HM 6x65 S, steel toggle anchor	EI 120 U/C		
PP Pipe 75 mm ø 2.8-6.7 mm wall thickness	75 mm PipeBloc PCP	30 mm (W) x 8 mm (T)					
PP Pipe 82 mm ø 2.8-6.7 mm wall thickness	82 mm PipeBloc PCP						
PP Pipe 90 mm ø 2.7-10.0 mm wall thickness	90 mm PipeBloc PCP						
PP Pipe 100 mm ø 2.7- 10.0 mm wall thickness	100 mm Pipe Bloc PCP	30 mm (W) x 10 mm (T)	30 mm (W) x 10 mm (T)	30 mm (W) x 10 mm (T)			
PP Pipe 110 mm ø 2.7- 10.0 mm wall thickness	110 mm Pipe Bloc PCP						
PP Pipe 125 mm ø 3.1 mm wall thickness	125 mm Pipe Bloc PCP	40 mm (W) x 12 mm (T)					
PP Pipe 140 mm ø 3.5-8.0 mm wall thickness	140 mm Pipe Bloc PCP	40 mm (W) x 16 mm (T)					
PP Pipe 160 mm ø 4.0- 14.6 mm wall thickness	160 mm Pipe Bloc PCP	40 mm (W) x 18 mm (T)					

A.2.1.3 PE pipes with PipeBloc PCP installed on both sides of flexible or rigid wall

PE pipes according to EN ISO 15494 with PipeBloc PCP.

P	ipeBloc PCP, Face Fixed	on Both Sides of Flexible	or Rigid Wall (min	100 mm thick) PE Pipes			
Penetration Specification	Collar Reference	Intumescent Material	Annulus Space (mm)	Collar Fixing	Classification		
PE Pipe 32 mm ø 2.9 mm wall thickness	32 mm PipeBloc PCP						
PE Pipe 40 mm ø 2.9 mm wall thickness	40 mm PipeBloc PCP	30 mm (W) x 4 mm (T) 30 mm (W) x 6 mm (T)		-			
PE Pipe 50 mm ø 2.9 mm wall thickness	50 mm PipeBloc PCP						
PE Pipe 55 mm ø 2.9-4.4 mm wall thickness	55 mm PipeBloc PCP			3			
PE Pipe 63 mm ø 2.9-4.4 mm wall thickness	63 mm PipeBloc PCP			Fixed on both sides of the wall with a 6mm x 65mm long Fisher HM 6x65 S, steel toggle	EI 120 U/C		
PE Pipe 75 mm ø 2.8-6.7 mm wall thickness	75 mm PipeBloc PCP	30 mm (W) x 8 mm (T)					
PE Pipe 82 mm ø 2.8-6.7 mm wall thickness	82 mm PipeBloc PCP		10				
PE Pipe 90 mm ø 2.7-10.0 mm wall thickness	90 mm PipeBloc PCP					anchor	
PE Pipe 100 mm ø 2.7- 10.0 mm wall thickness	100 mm Pipe Bloc PCP						
PE Pipe 110 mm ø 2.7- 10.0 mm wall thickness	110 mm Pipe Bloc PCP						
PE Pipe 125 mm ø 3.1 mm wall thickness	125 mm Pipe Bloc PCP	40 mm (W) x 12 mm (T)					
PE Pipe 140 mm ø 3.9-5.8 mm wall thickness	140 mm Pipe Bloc PCP	40 mm (W) x 16 mm (T)					
PE Pipe 160 mm ø 4.9-9.5 mm wall thickness	160 mm Pipe Bloc PCP	40 mm (W) x 18 mm (T)					

A.2.2 Penetration seal with PipeBloc PCP installed on both sides of rigid wall



A.2.2.1 PP pipes with PipeBloc PCP installed on both sides of rigid wall

Penetration Specification	Collar Reference	Intumescent Material	Annulus Space (mm)	Collar Fixing	Classification
PP Pipe 110 mm ø 2.7 mm wall thickness	110 mm Pipe Bloc PCP	30 mm (W) x 10 mm (T)	10	Fixed on both faces of the wall with 3No. 40mm Fischer pins	EI 120 U/U
PP Pipe 160 mm ø 4.0 mm wall thickness	160 mm Pipe Bloc PCP	40 mm (W) x 18 mm (T)		Fixed on both faces of the wall with 3No. Ø4 x	EI 120 U/U
PP Pipe 250 mm ø 6.2 mm wall thickness	250 mm Pipe Bloc PCP	40 mm (W) x 24 mm (T)		70mm wood screws and penny washers	EI 120 U/C

