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**Solutions**

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**Approved body No.:**

0843

**Product Name:**

FirePro® Pipe Collar

**Project No.:**

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## 1. Introduction

This classification report defines the classification assigned to the product FirePro® Pipe Collar, in accordance with the procedures given in EN 13501-2: 2023.

## 2. Details of classification product

### 2.1 General

The product FirePro® Pipe Collar is a flexible high performance intumescent strip contained within a metal shell. The product is designed for use in the protection of combustible services. In the event of a fire, the active components provide a high-volume expansion and pressure seal, closing off the void left by combustible materials.

### 2.2 Product description

The element, FirePro® Pipe Collar, is fully described in the test reports provided in support of Classification, detailed in clause 3.1.

## 3. Test reports in support of classification

### 3.1 Summary of test reports

Name of laboratory	Name of sponsor	Test reference	Test date	Test method
FPA Accredited Body no. 10536	Rockwool Limited	FPA 106436 r0	16.08.2024	EN 1366-3: 2021
		FPA 106651 r0	27.08.2024	EN 1366-3: 2021
WarringtonFire Approved Body no. 0833		548099/R Iss1	23.11.2024	EN 1366-3: 2021
		545834/R Iss1	04.08.2024	EN 1366-3: 2021
		549198/R Iss2	28.01.2025	EN 1366-3: 2021+A1:2024
		549199/R Iss2	29.01.2025	

### 3.2 Results

#### Summary of report No.: FPA 106436 r0

A fire resistance test in accordance with EN 1366-3: 2021, on a range of ROCKWOOL Ltd FirePro® Pipe Collar penetration seals penetrating apertures formed within a 100 mm thick standard EN 1366-3 rigid wall and a standard flexible stud wall. All specimens were sealed symmetrically. All pipe services with U/C pipe-end configuration.

#### Rigid Wall

A Pipe Collar penetration sealing systems within a 100 mm rigid wall. Tested to EN 1366-3:2021								
All annular gaps were 10mm and sealed with 10mm deep FirePro AIS					Integrity (minutes)			Insulation (minutes)
REF	Aperture (mm)	Service Type	Service Size (mm)	Wall Thickness (mm)	Cotton Pad	Sustained Flaming	Gap Gauge	
A1	60	PVC	40	1.9	132	132	132	132
A2	60	PVC	40	3	132	132	132	132
A3	60	HDPE	40	2.4	132	132	132	132
A4	60	HDPE	40	3.7	132	132	132	132
A5	60	PP	40	1.8	132	132	132	132
A6	60	PP	40	5.5	132	132	132	132
A7	130	PVC	110	4.2	132	132	132	132
A8	130	PVC	110	6.6	132	132	132	132
A9	130	HDPE	110	2.7	132	132	132	132
A10	130	HDPE	110	10	132	132	132	78
A11	130	PP	110	2.7	132	132	132	132
A12	130	PP	110	6.3	132	132	132	115
A13	180	PVC	160	6.2	132	132	132	132
A14	180	PVC	160	9.5	132	132	132	132
A15	180	HDPE	160	4.9	132	132	132	132
A16	180	HDPE	160	9.5	132	132	132	132
A17	180	PP	160	4	132	132	132	132
A18	180	PP	160	9.1	132	132	132	132

Flexible wall

B Pipe Collar penetration sealing systems within a 100 mm flexible wall. Tested to BS EN 1366-3:2021								
All annular gaps were 10mm and sealed with 10mm deep FirePro AIS					Integrity (minutes)			Insulation (minutes)
REF	Aperture (mm)	Service Type	Service Size (mm)	Wall Thickness (mm)	Cotton Pad	Sustained Flaming	Gap Gauge	
B1	60	PVC	40	1.9	132	132	132	132
B2	60	PVC	40	3	132	132	132	132
B3	60	HDPE	40	2.4	132	132	132	132
B4	60	HDPE	40	3.7	132	132	132	132
B5	60	PP	40	1.8	132	132	132	132
B6	60	PP	40	5.5	132	132	132	132
B7	130	PVC	110	4.2	132	132	132	122
B8	130	PVC	110	6.6	132	132	132	132
B9	130	HDPE	110	2.7	132	132	132	132
B10	130	HDPE	110	10	132	132	132	119
B11	130	PP	110	2.7	132	132	132	116
B12	130	PP	110	6.3	132	132	132	132
B13	180	PVC	160	6.2	132	132	132	125
B14	180	PVC	160	9.5	132	132	132	132
B15	180	HDPE	160	4.9	132	132	132	119
B16	180	HDPE	160	9.5	132	132	132	118
B17	180	PP	160	4	132	132	132	113
B18	180	PP	160	9.1	132	132	132	115

Summary of report No.: FPA 106651 r0

A fire resistance test in accordance with EN 1366-3: 2021, on a range of ROCKWOOL Ltd FirePro® Pipe Collar penetration seals penetrating apertures formed within a standard EN 1366-3 specification 150 mm thick low density rigid floor supporting construction. All pipe collars are installed on the underside of the floor slab. All pipe services with U/C pipe-end configuration.

Pipe Collar penetration seals within a 150mm Low Density Rigid Floor Slab. Tested to EN 1366-3:2021								
Pipe Penetrations - All with 10mm annular gap filled with 10mm deep AIS					Integrity (minutes)			Insulation (minutes)
REF	Aperture (mm)	Service Type	Service Size (mm)	Wall Thickness (mm)	Cotton Pad	Sustained Flaming	Gap Gauge	
A	180	PVC-U	160	6.2	264	264	264	264
B	60	PVC-U	40	1.9	264	264	264	264
C	60	HDPE	40	3.7	264	264	264	264
D	180	HDPE	160	9.5	264	264	264	264
E	180	PP	160	9.1	264	264	264	264
F	60	PP	40	5.5	264	264	264	264
G	60	HDPE	40	2.4	264	264	264	264
H	180	HDPE	160	4.9	264	264	264	264
I	180	PP	160	4	264	264	264	264
J	60	PP	40	1.8	264	264	264	264
K	60	PVC-U	40	3	264	264	264	264
L	180	PVC-U	160	9.5	264	264	264	264

Summary of report WF 545834/R Iss1

A fire resistance test in accordance with EN 1366-3: 2021, on a range of ROCKWOOL Ltd FirePro® Pipe Collar penetrating apertures formed within a standard EN 1366-3 specification 150 mm thick low density rigid floor supporting construction. All pipe collars are installed on the underside of the floor slab. All pipe services with U/C pipe-end configuration.

Plastic pipes through 150mm masonry floor in accordance with EN 1366-3:2021 Pipe Penetrations - All with 10mm annular gap filled with 10mm deep AIS									
REF	Service Type	Service Size (mm)	Wall Thickness (mm)	Collar Ref	Aperture (mm)	Integrity (minutes)			Insulation (minutes)
						Cotton Pad	Sustained Flaming	Gap Gauge	
A	PVC	110	4.2	CS110	130	102	102	106	102
B	PVC	110	6.6	CS110	130	136	136	136	110
C	HDPE	110	2.7	CS110	130	129	129	129	129
D	HDPE	110	10	CS110	130	136	136	136	136
E	PP	110	2.7	CS110	130	119	119	119	117
F	PP	110	10	CS110	130	136	136	136	136
G	PVC	160	9.5	CS160	180	127	127	127	127
H	HDPE	160	9.5	CS160	180	136	136	136	136
I	PP	160	9.1	CS160	180	136	136	136	136
J	PP	40	5.5	CS40	60	108	108	108	105
K	PP	40	1.8	CS40	60	136	136	136	136
L	HDPE	40	3.7	CS40	60	136	136	136	127
M	HDPE	40	2.4	CS40	60	136	136	136	136
N	PVC	40	3	CS40	60	136	136	136	136
O	PVC	40	1.9	CS40	60	121	121	121	121
P	PVC	160	4.7	CS160	180	136	136	136	134
Q	HDPE	160	4.9	CS160	180	136	136	136	136
R	PP	160	4	CS160	180	118	118	118	117

Summary of report WF 549198/R Iss2

A fire resistance test in accordance with EN 1366-3: 2021 + A1:2024, on a range of ROCKWOOL Ltd FirePro® Pipe Collar penetration seals, penetrating apertures formed within a 75 mm thick standard EN 1366-3 flexible stud wall. All specimens were sealed symmetrically.

Pipe collars penetration seals through a 75 mm standard flexible wall. Tested to EN 1366-3:2021+A1:2024								
All plastic pipe services with U/C pipe-end configuration								
Pipe Penetrations - All with 10mm annular gap filled with 12.5 mm deep and 10 mm wide AIS								
REF	Service Type	Service Size (mm)	Wall Thickness (mm)	Aperture (mm)	Integrity (minutes)			Insulation (minutes)
					Cotton Pad	Sustained Flaming	Gap Gauge	
A1	PP	110	2.7	130	68	68	68	60
A2	PP	160	4	180	68	68	68	52
A3	HDPE	110	2.7	130	68	68	68	59
B	PP-RT / AL / PP-RT	110	10	130	68	68	68	41
M	PP-RT / AL / PP-RT	40	4	60	68	68	68	43

Summary of report WF 549199/R Iss2

A fire resistance test in accordance with EN 1366-3: 2021 + A1:2024, on a range of ROCKWOOL Ltd FirePro® Pipe Collar penetration seals, penetrating apertures formed within a 100 mm thick standard EN 1366-3 flexible stud wall. All specimens were sealed symmetrically. 100 mm of wall insulation was removed from around the services A1 to A3 to represent an uninsulated wall.

Pipe collars penetration seals through a 75 mm standard flexible wall. Tested to EN 1366-3:2021+A1:2024								
All plastic pipe services with U/C pipe-end configuration								
Pipe Penetrations - All with 10mm annular gap filled with 12.5 mm deep and 10 mm wide AIS								
REF	Service Type	Service Size (mm)	Wall Thickness (mm)	Aperture (mm)	Integrity (minutes)			Insulation (minutes)
					Cotton Pad	Sustained Flaming	Gap Gauge	
A1	PP	110	2.7	130	136	136	136	136
A2	HDPE	160	2.7	180	136	136	136	136
A3	PP	110	4	130	136	136	136	136
B	PP-RT / AL / PP-RT	110	10	130	136	136	136	48
M	PP-RT / AL / PP-RT	40	4	60	136	136	136	44

Summary of report WF 548099/R Iss1

A fire resistance test in accordance with EN 1366-3: 2021, on a range of ROCKWOOL Ltd FirePro® Pipe Collar penetration seals, penetrating apertures formed within a 100 mm thick standard EN 1366-3 flexible stud wall. All specimens were sealed symmetrically.

Pipe collars penetration seals through a 100 mm standard flexible wall. Tested to BS EN 1366-3:2021 All plastic pipe services with U/C pipe-end configuration Pipe Penetrations - All with 10mm annular gap filled with 12.5 mm deep and 10 mm wide AIS									
REF	Service Type	Service Size (mm)	Wall Thickness (mm)	Pipe Collar Ref	Aperture (mm)	Integrity (minutes)			Insulation (minutes)
						Cotton Pad	Sustained Flaming	Gap Gauge	
A	HDPE	40	2.4	CS40	60	143	143	143	143
B	HDPE	40	3.7	CS40	60	143	143	143	143
C	PP	40	1.8	CS40	60	143	143	143	143
D	PP	40	5.5	CS40	60	143	143	143	143
E	PVC	40	1.9	CS40	60	143	143	143	143
F	PVC	40	3	CS40	60	143	143	143	143
G	PVC	110	4.2	CS110	130	143	143	143	143
H	PVC	110	6.6	CS110	130	143	143	143	143
I	HDPE	110	2.7	CS110	130	143	143	143	143
J	HDPE	110	10	CS110	130	143	143	143	143
K	PP	110	2.7	CS110	130	143	143	143	143
L	PP	110	6.3	CS110	130	143	143	143	143
M	PVC	160	9.5	CS160	180	143	143	143	143
N	HDPE	160	4.9	CS160	180	143	143	143	143
O	HDPE	160	9.5	CS160	180	143	143	143	141
P	PP	160	4	CS160	180	143	143	143	134
Q	PP	160	9.1	CS160	180	143	143	143	142
R	PVC	160	6.2	CS160	180	143	143	143	143

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with Clause 7 of EN 13501-2: 2023.

##### 4.2 Classification

The element, FirePro® Pipe Collar is classified according to the following combinations of performance parameters and classes as appropriate.

R	E	I	W	t	t	-	M	S	-	C	IncSlow	sn	ef	r
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##### 4.3 Supporting substrate types

Substrate type	Minimum specification
<b>Single skin flexible walls</b>	The flexible wall construction must be classified in accordance with EN 13501-2 for the required fire resistance period and must have a minimum thickness of 75 mm. The walls may be insulated or uninsulated. The flexible wall construction comprises steel or timber studs lined on both faces with minimum 1 Layer of minimum 12,5 mm thick boards. For timber stud walls there must be a minimum distance of 100 mm from the seal to any stud. The cavity between stud and seal must be closed with an insulation of Class A1 (in accordance with EN 13501-1) for at least 100 mm distance.
<b>Double skin flexible walls</b>	The flexible wall construction must be classified in accordance with EN 13501-2 for the required fire resistance period and must have a minimum thickness of 100 mm. The walls may be insulated or uninsulated. The flexible wall construction comprise steel or timber studs lined on both faces with minimum 2 Layer of minimum 12,5 mm thick boards. For timber stud walls there must be a minimum distance of 100 mm from the seal to any stud. The cavity between stud and seal must be closed with an insulation of Class A1 (in accordance with EN 13501-1) for at least 100 mm distance.
<b>Rigid walls</b>	The rigid wall must have a minimum thickness of 100 mm and comprise aerated concrete, concrete or masonry, with a minimum density of 600 kg/m <sup>3</sup> .
<b>Rigid floors</b>	The rigid floor must have a minimum thickness of 150 mm and comprise aerated concrete, concrete or masonry, with a minimum density of 600 kg/m <sup>3</sup> .

#### 4.4 Product Installation

##### Wall installation

For wall applications the penetrations shall be sealed symmetrically either side of the wall (unless otherwise stated). Additionally, a smoke seal consisting of FirePro® AIS shall be installed within the annular gap, either side of the wall.

##### Fixings

Single skin walls:           ≥M5 x 52 mm Metallic cavity wall anchors

Double skin walls:         ≥M5 x 65 mm Metallic cavity wall anchors  
Drywall screws (metallic)

Masonry walls:             Masonry screws

##### Floor installation

With floor constructions the collar shall be installed on the underside of the floor slab only. Additionally, a smoke seal consisting of FirePro AIS shall be installed between the pipe and floor slab to seal the annular space. Depending upon performance, this can be installed on either the upper or lower face of the floor. See tables for the associated performance.

##### Fixings

Concrete floor:             80 mm concrete screw  
Masonry screws (metallic)

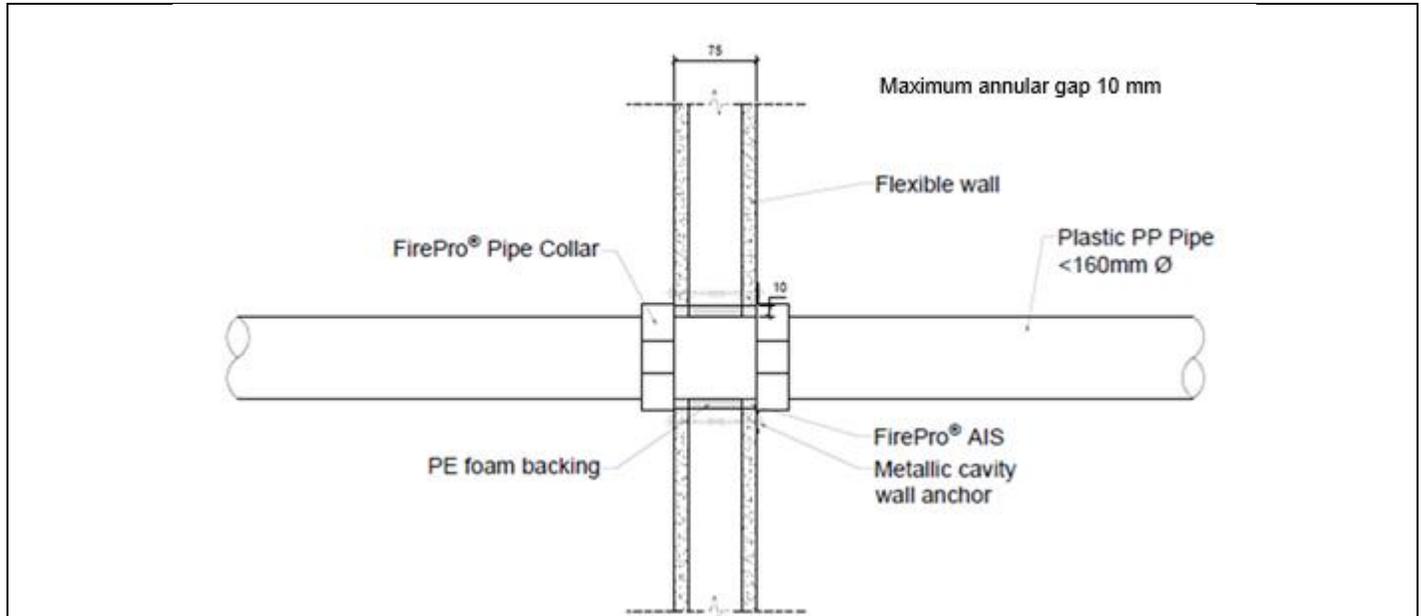
See performance tables for specific fire resistance performance of fixing types.

#### 4.5 Classified performances

##### 4.5.1 Flexible walls with a minimum thickness of 75 mm – Insulated or Uninsulated

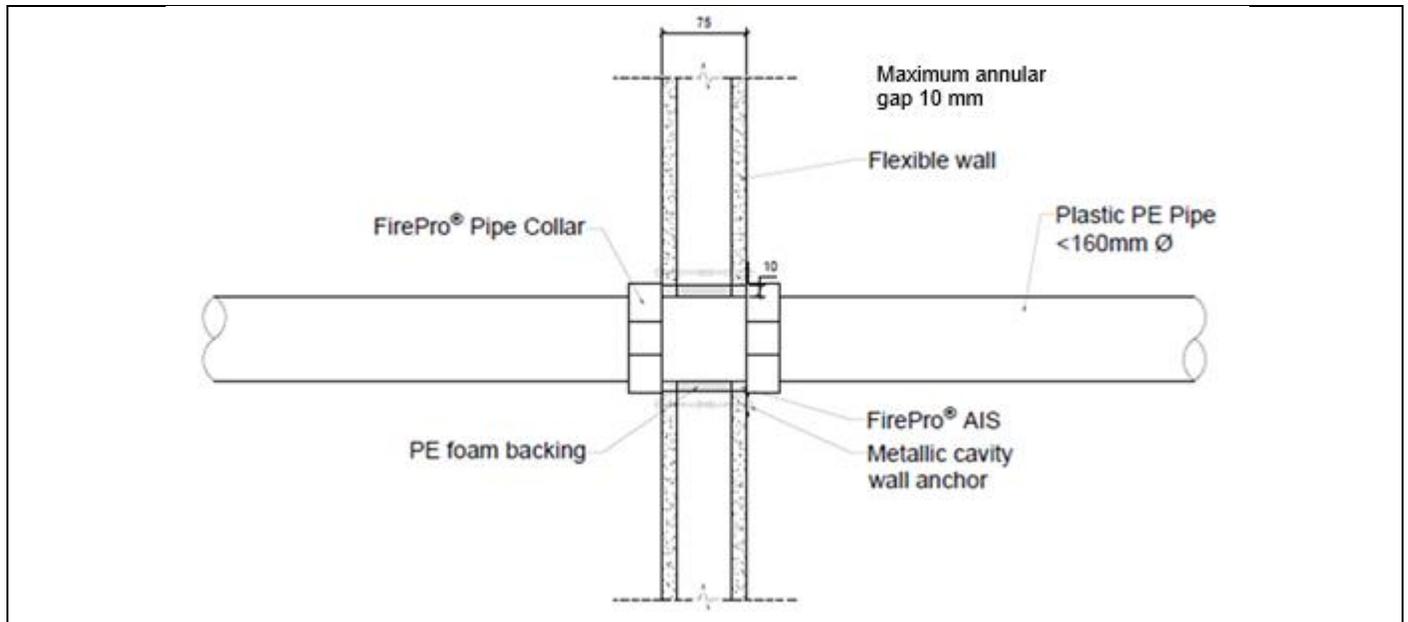
Plastic pipes protected with FirePro® Pipe Collar and fixed using metallic cavity anchors.

##### PP Pipes



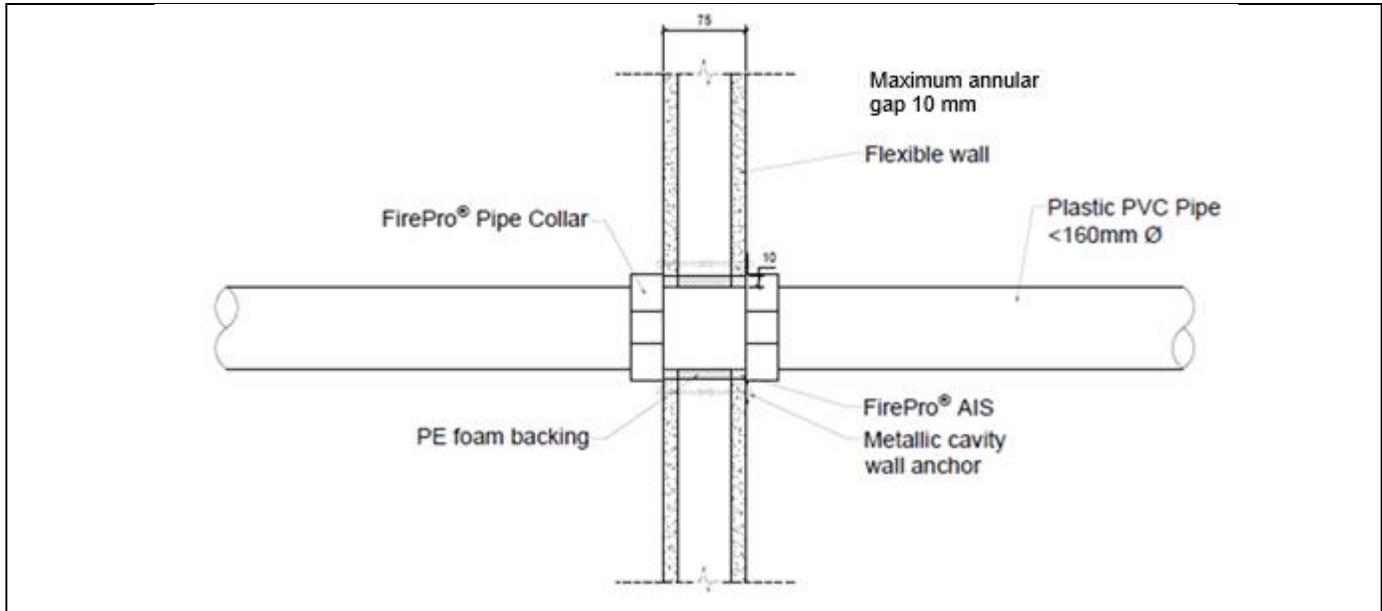
Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.8 – 5.5	2	10 mm annulus x 12.5 mm deep on both sides of the wall, installed over a PE backing rod. Pipe collar flush with both faces of the supporting construction, fixed with M5 x 52mm wall anchor	60mm Ø	E 60/EI 45 U/C
55	55	2.0 – 5.7	3		75mm Ø	E 60/EI 45 U/C
63	63	2.1 – 5.8	3		83mm Ø	E 60/EI 45 U/C
75	75	2.3 – 5.9	3		95mm Ø	E 60/EI 45 U/C
82	82	2.4 – 6.0	4		102mm Ø	E 60/EI 45 U/C
90	90	2.5 – 6.1	4		110mm Ø	E 60/EI 45 U/C
110	110	2.7 – 6.3	4		130mm Ø	E 60/EI 45 U/C
125	125	3.1 – 7.2	5		145mm Ø	E 60/EI 45 U/C
140	140	3.5 – 8.1	6		160mm Ø	E 60/EI 45 U/C
160	160	4.0 – 9.1	7		180mm Ø	E 60/EI 45 U/C

**PE Pipes**



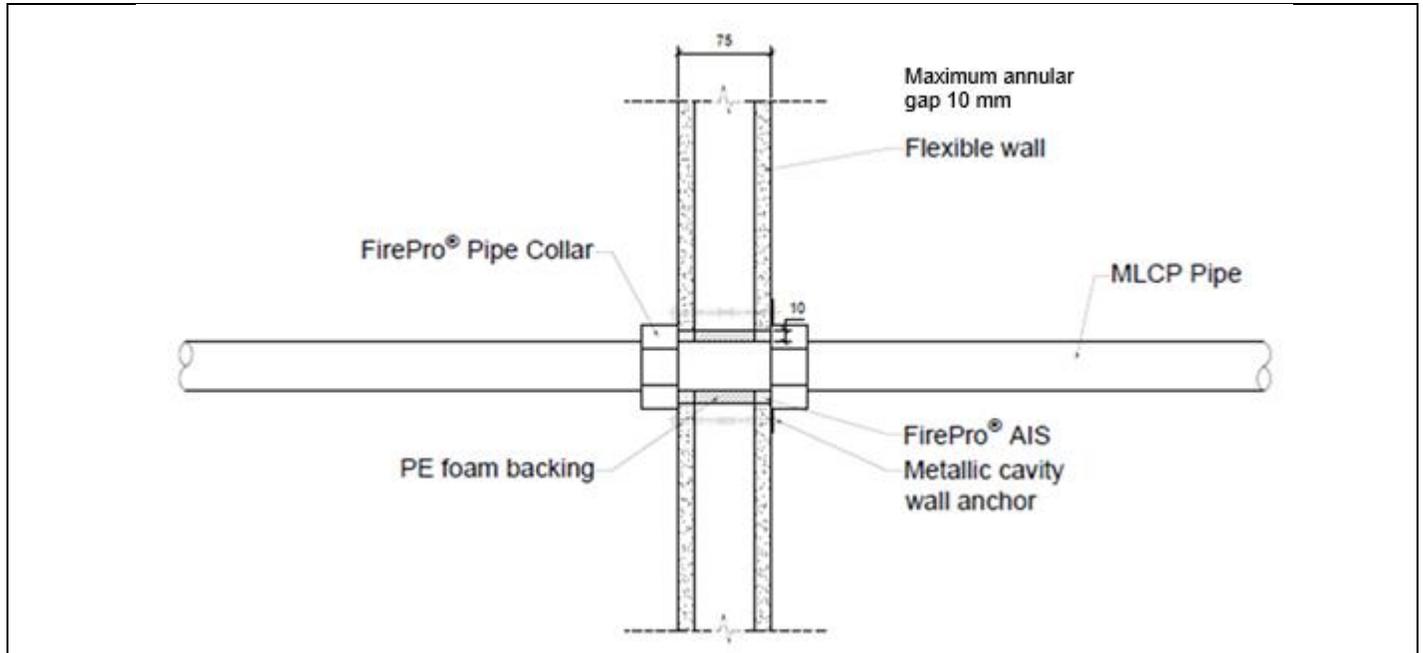
Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	2.4 – 3.7	2	10 mm annulus x 12.5 mm deep on both sides of the wall, installed over a PE backing rod. Pipe collar flush with both faces of the supporting construction, fixed with M5 x 52mm wall anchor	60mm $\varnothing$	E 60/EI 45 U/C
55	55	2.5 – 5.0	3		75mm $\varnothing$	E 60/EI 45 U/C
63	63	2.5 – 5.8	3		83mm $\varnothing$	E 60/EI 45 U/C
75	75	2.5 – 6.9	3		95mm $\varnothing$	E 60/EI 45 U/C
82	82	2.6 – 7.6	4		102mm $\varnothing$	E 60/EI 45 U/C
90	90	2.6 – 8.3	4		110mm $\varnothing$	E 60/EI 45 U/C
110	110	2.7 - 10	4		130mm $\varnothing$	E 60/EI 45 U/C
125	125	3.4 – 9.8	5		145mm $\varnothing$	E 60/EI 45 U/C
140	140	4.1 – 9.7	6		160mm $\varnothing$	E 60/EI 45 U/C
160	160	4.9 – 9.5	7		180mm $\varnothing$	E 60/EI 45 U/C

**PVC Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.9 – 3.0	2	10 mm annulus x 12.5 mm deep on both sides of the wall, installed over a PE backing rod. Pipe collar flush with both faces of the supporting construction, fixed with M5 x 52mm wall anchor	60mm Ø	E 60/EI 45 U/C
55	55	2.4 – 3.7	3		75mm Ø	E 60/EI 45 U/C
63	63	2.6 – 4.1	3		83mm Ø	E 60/EI 45 U/C
75	75	3.0 – 4.8	3		95mm Ø	E 60/EI 45 U/C
82	82	3.2 – 5.1	4		102mm Ø	E 60/EI 45 U/C
90	90	3.5 – 5.6	4		110mm Ø	E 60/EI 45 U/C
110	110	4.2 – 6.6	4		130mm Ø	E 60/EI 45 U/C
125	125	4.8 – 7.6	5		145mm Ø	E 60/EI 45 U/C
140	140	5.5 – 8.4	6		160mm Ø	E 60/EI 45 U/C
160	160	6.2 – 9.5	7		180mm Ø	E 60/EI 45 U/C

**MLCP Pipes**

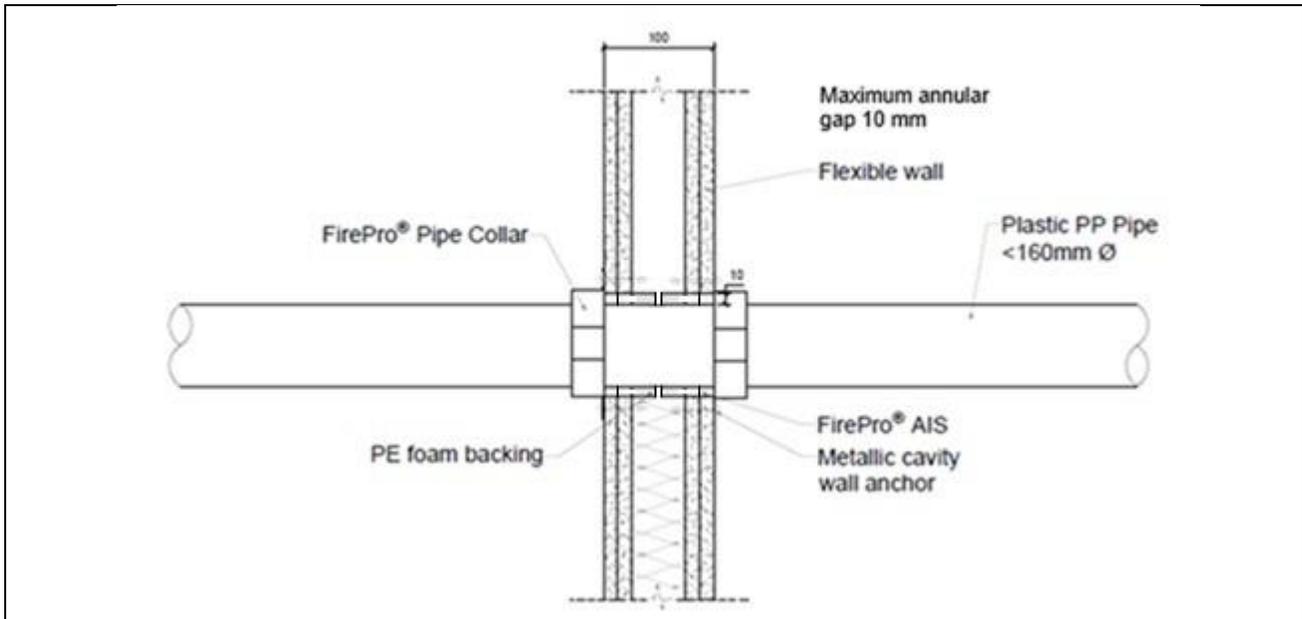


Pipe Collar Size (mm)	Pipe size (mm)	Pipe Type	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	Uponor Uni Pipe Plus PP-RT / AL/ PP-RT	4	1	10 mm annulus x 12.5 mm deep on both sides of the wall, installed over a PE backing rod. Pipe collar flush with both faces of the supporting construction, fixed with M5 x 52mm wall anchor	60mm Ø	E 60/EI 30 U/C
110	110		10	4		130mm Ø	E 60/EI 30 U/C

**4.5.2 Flexible walls with a minimum thickness of 100 mm – Insulated or uninsulated**

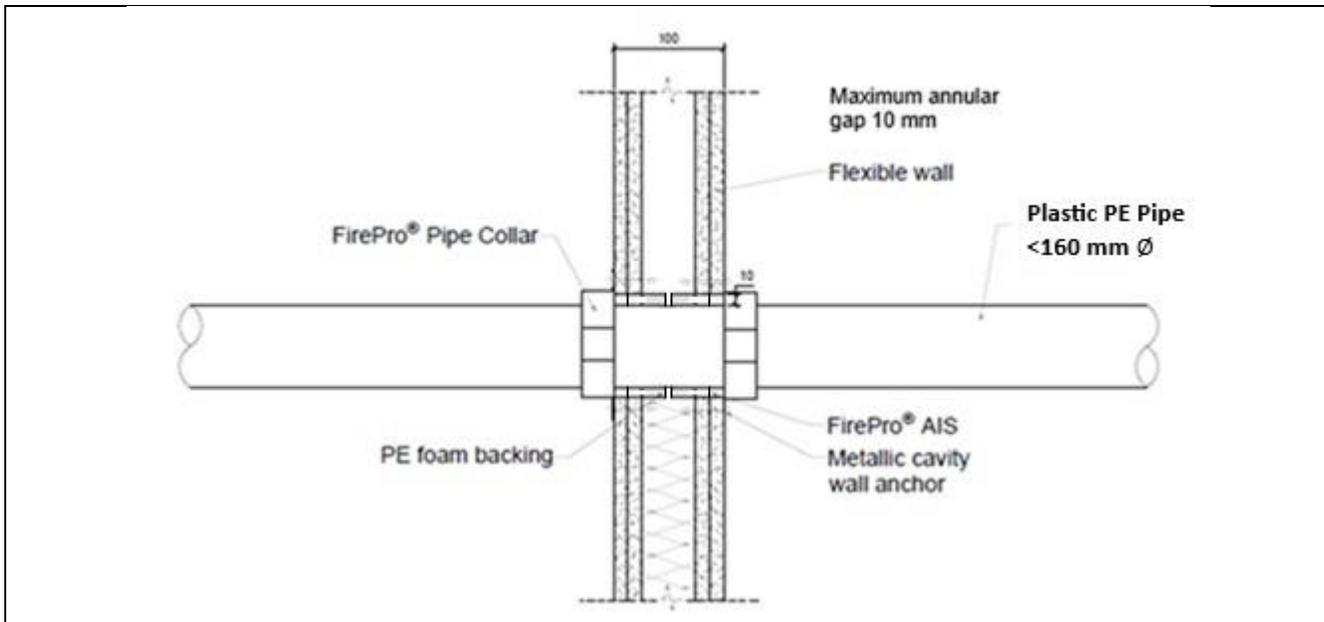
**Plastic pipes protected with FirePro® Pipe Collar and fixed using metallic cavity anchors.**

**PP Pipes**



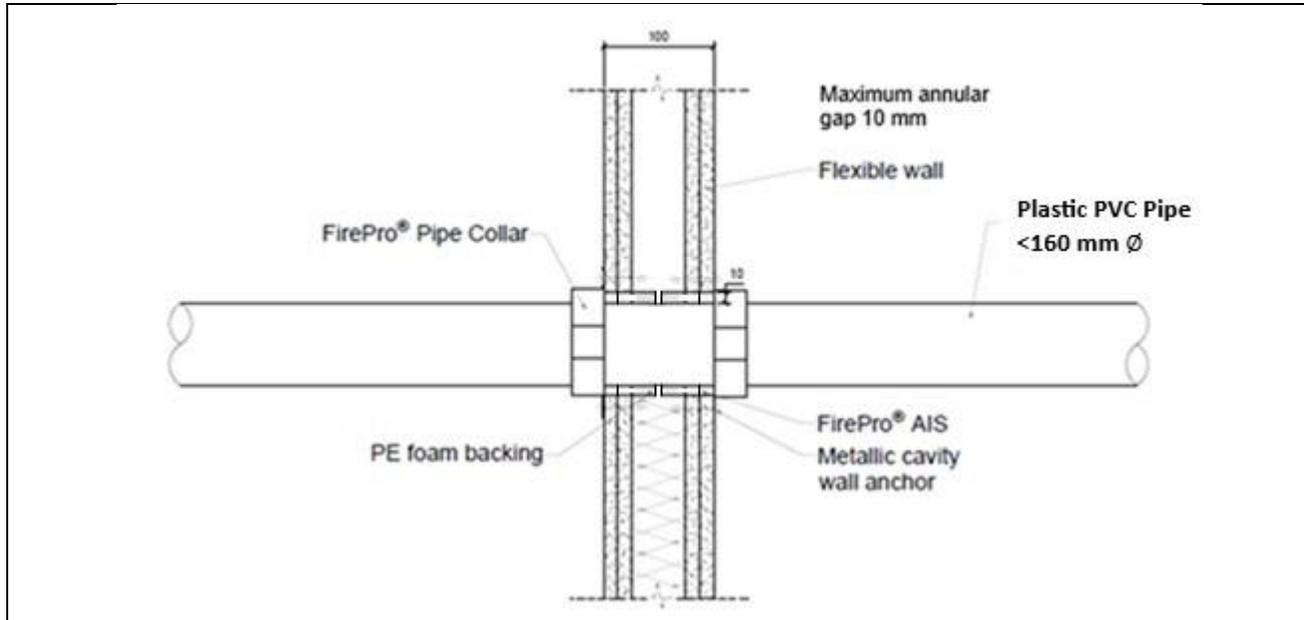
Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.8 – 5.5	2	10 mm annulus x 12.5 mm deep on both sides of the wall, installed over a 30 mm wide PE backing rod. Pipe collar flushed to both faces of the wall fixed in place with anchor screws	60mm Ø	EI 120 U/C
55	55	2.0 – 5.7	3		75mm Ø	EI 120 U/C
63	63	2.1 – 5.8	3		83mm Ø	EI 120 U/C
75	75	2.3 – 5.9	3		95mm Ø	EI 120 U/C
82	82	2.4 – 6.0	4		102mm Ø	EI 120 U/C
90	90	2.5 – 6.1	4		110mm Ø	EI 120 U/C
110	110	2.7 – 6.3	4		130mm Ø	EI 120 U/C
125	125	3.1 – 7.2	5		145mm Ø	EI 120 U/C
140	140	3.5 – 8.1	6		160mm Ø	EI 120 U/C
160	160	4.0 – 9.1	7		180mm Ø	EI 120 U/C

**PE Pipes**



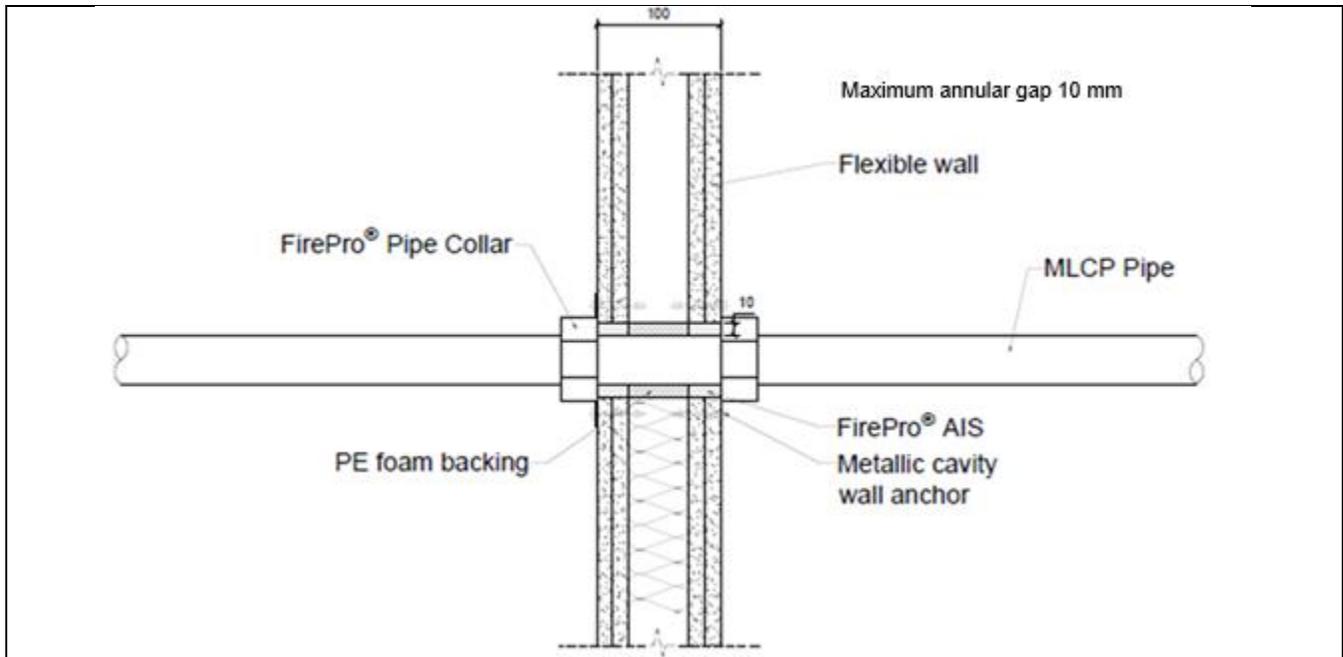
Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	2.4 – 3.7	2	10 mm annulus x 12.5 mm deep on both sides of the wall, installed over a 30 mm wide PE backing rod. Pipe collar flushed to both faces of the wall, fixed in place with anchor screws	60mm Ø	EI 120 U/C
55	55	2.5 – 5.0	3		75mm Ø	EI 120 U/C
63	63	2.5 – 5.8	3		83mm Ø	EI 120 U/C
75	75	2.5 – 6.9	3		95mm Ø	EI 120 U/C
82	82	2.6 – 7.6	4		102mm Ø	EI 120 U/C
90	90	2.6 – 8.3	4		110mm Ø	EI 120 U/C
110	110	2.7 - 10	4		130mm Ø	EI 120 U/C
125	125	3.4 – 9.8	5		145mm Ø	EI 120 U/C
140	140	4.1 – 9.7	6		160mm Ø	EI 120 U/C
160	160	4.9 – 9.5	7		180mm Ø	EI 120 U/C

**PVC Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.9 – 3.0	2	10 mm annulus x 12.5 mm deep on both sides of the wall, installed over a 30 mm wide PE backing rod. Pipe collar flushed to both faces of the wall, fixed in place with anchor screws	60mm Ø	EI 120 U/C
55	55	2.4 – 3.7	3		75mm Ø	EI 120 U/C
63	63	2.6 – 4.1	3		83mm Ø	EI 120 U/C
75	75	3.0 – 4.8	3		95mm Ø	EI 120 U/C
82	82	3.2 – 5.1	4		102mm Ø	EI 120 U/C
90	90	3.5 – 5.6	4		110mm Ø	EI 120 U/C
110	110	4.2 – 6.6	4		130mm Ø	EI 120 U/C
125	125	4.8 – 7.6	5		145mm Ø	EI 120 U/C
140	140	5.5 – 8.4	6		160mm Ø	EI 120 U/C
160	160	6.2 – 9.5	7		180mm Ø	EI 120 U/C

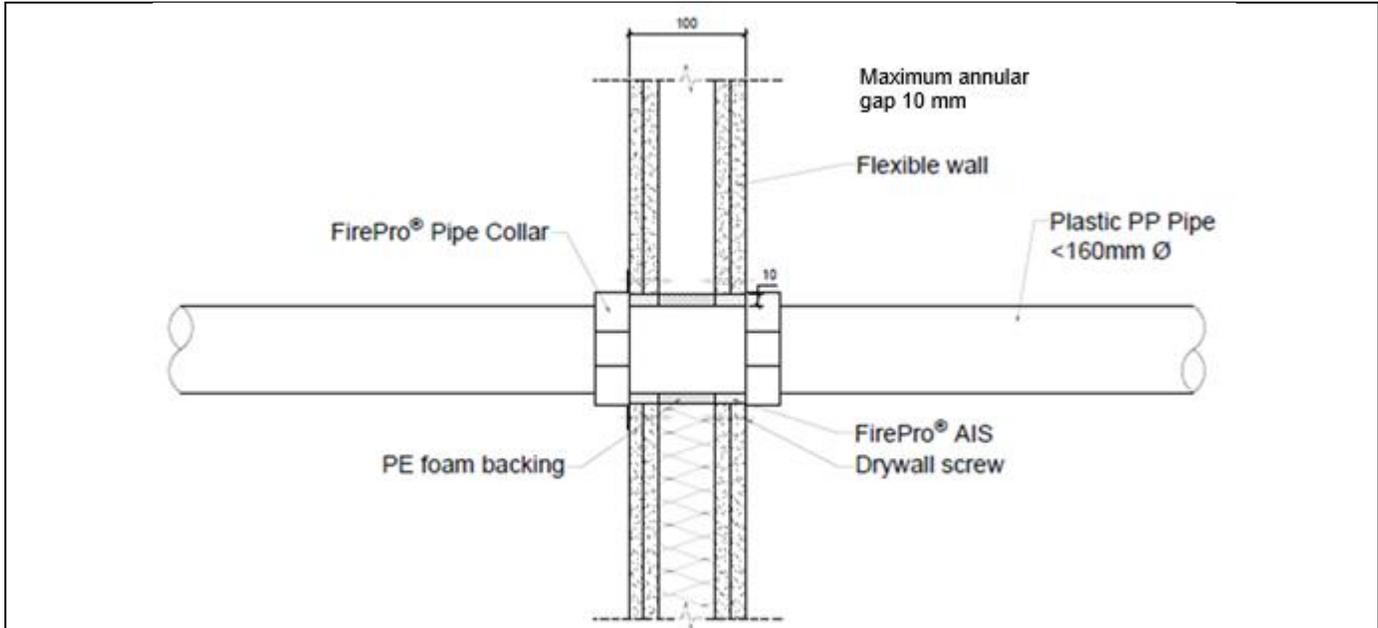
**MLCP Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe Type	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	Uponor Uni Pipe PP-RT / AL/ PP-RT	4	2	10 mm annulus x 25 mm deep on both sides of the wall, installed over a 50 mm PE backing rod. Pipe collar flushed to both faces of the wall fixed in place with anchor screws	60mm $\varnothing$	E 120/EI 30 U/C
110	110		10	4		130mm $\varnothing$	E 120 / EI 30 U/C

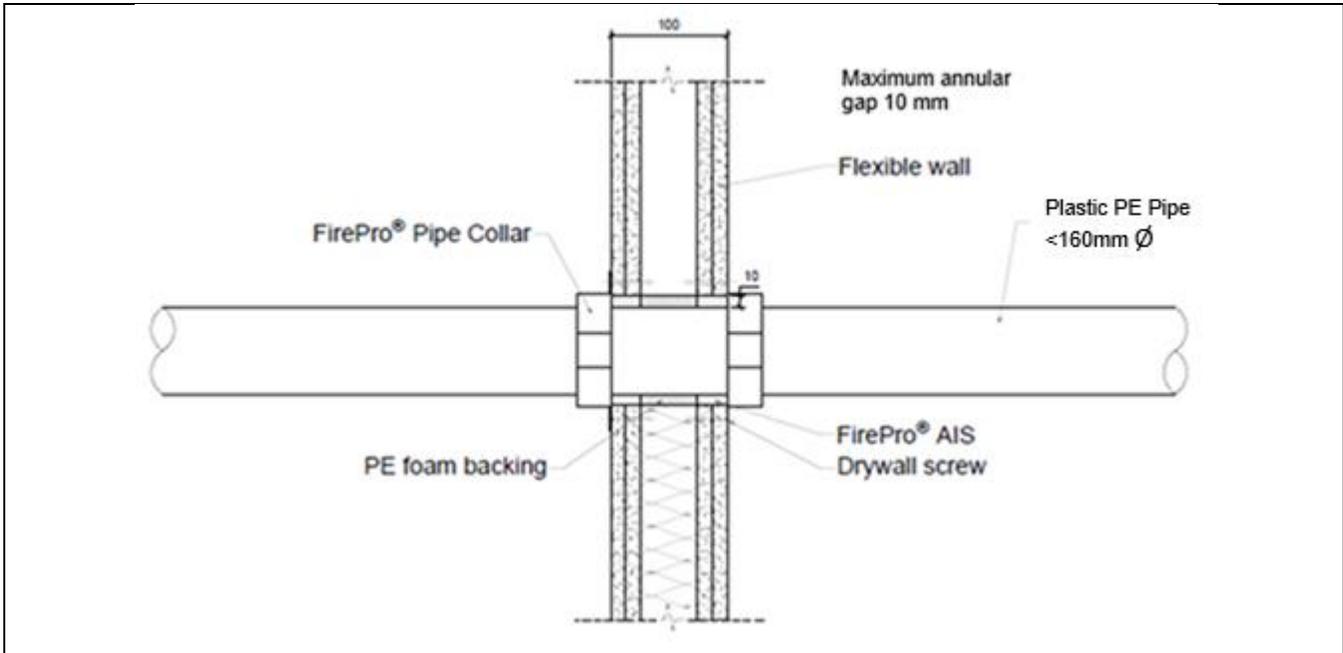
**Plastic pipes protected with FirePro® Pipe Collar and fixed using a drywall screw.**

**PP Pipes**



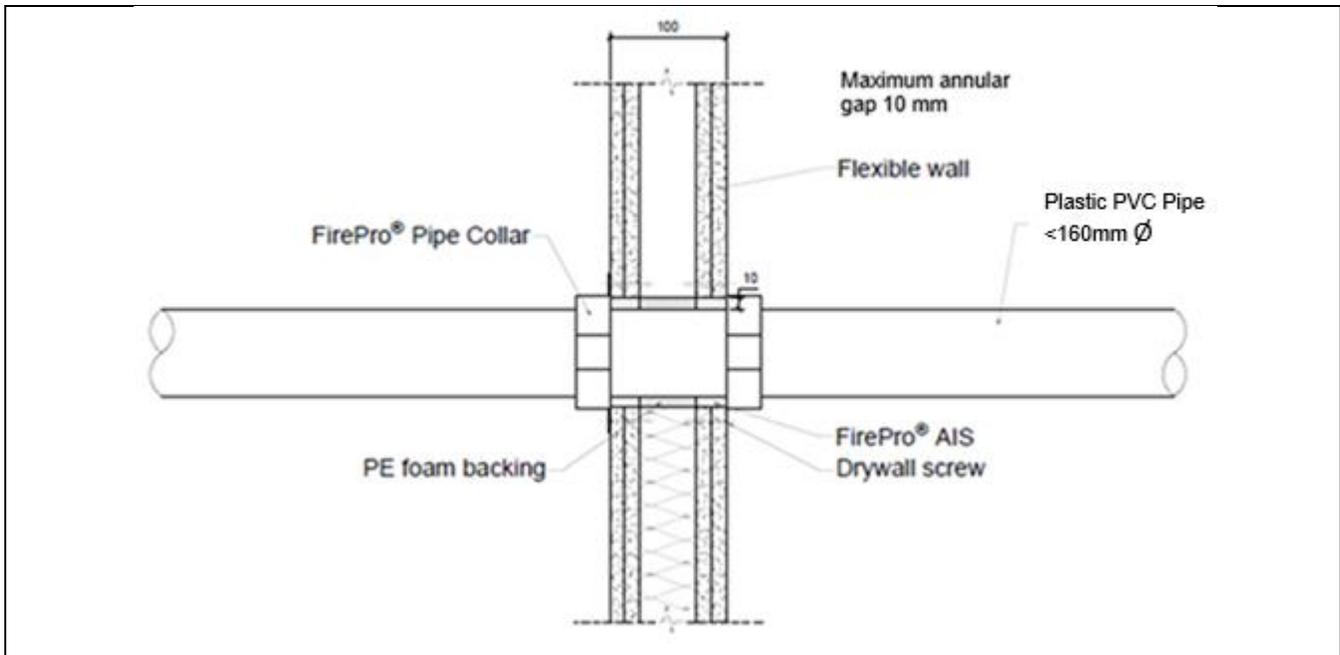
Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.8 – 5.5	2	10 mm deep FirePro® AIS, to both faces over 10 mm deep PE backing. Pipe collar fixed to the wall with 3 drywall screws, on collar to each face.	60mm Ø	EI 120 U/C
55	55	2.0 – 5.7	3		75mm Ø	E 120/EI 90 U/C
63	63	2.1 – 5.8	3		83mm Ø	E 120/EI 90 U/C
75	75	2.3 – 5.9	3		95mm Ø	E 120/EI 90 U/C
82	82	2.3 – 6.0	4		102mm	E 120/EI 90 U/C
90	90	2.4 – 6.1	4		110mm	E 120/EI 90 U/C
110	110	2.7 – 6.3	4		130mm	E 120/EI 90 U/C
125	125	3.1 – 7.1	5		145mm	E 120/EI 90 U/C
140	140	3.5 – 8.0	6		160mm	E 120/EI 90 U/C
160	160	4.0 – 9.1	7		180mm	E 120/EI 90 U/C

**PE Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	2.4 – 3.7	2	10 mm deep FirePro® AIS, to both faces over 10 mm deep PE backing. Pipe collar fixed to the wall with 3 drywall screws, on collar to each face.	60mm $\varnothing$	EI 120 U/C
55	55	2.5 – 5.1	3		75mm $\varnothing$	E 120/EI 90 U/C
63	63	2.5 – 5.8	3		83mm $\varnothing$	E 120/EI 90 U/C
75	75	2.6 – 6.9	3		95mm $\varnothing$	E 120/EI 90 U/C
82	82	2.6 – 7.5	4		102mm $\varnothing$	E 120/EI 90 U/C
90	90	2.6 – 8.2	4		110mm $\varnothing$	E 120/EI 90 U/C
110	110	2.7 – 10	4		130mm $\varnothing$	E 120/EI 90 U/C
125	125	3.4 – 9.9	5		145mm $\varnothing$	E 120/EI 90 U/C
140	140	4.0 – 9.7	6		160mm $\varnothing$	E 120/EI 90 U/C
160	160	4.9 – 9.5	7		180mm $\varnothing$	E 120/EI 90 U/C

**PVC Pipes**

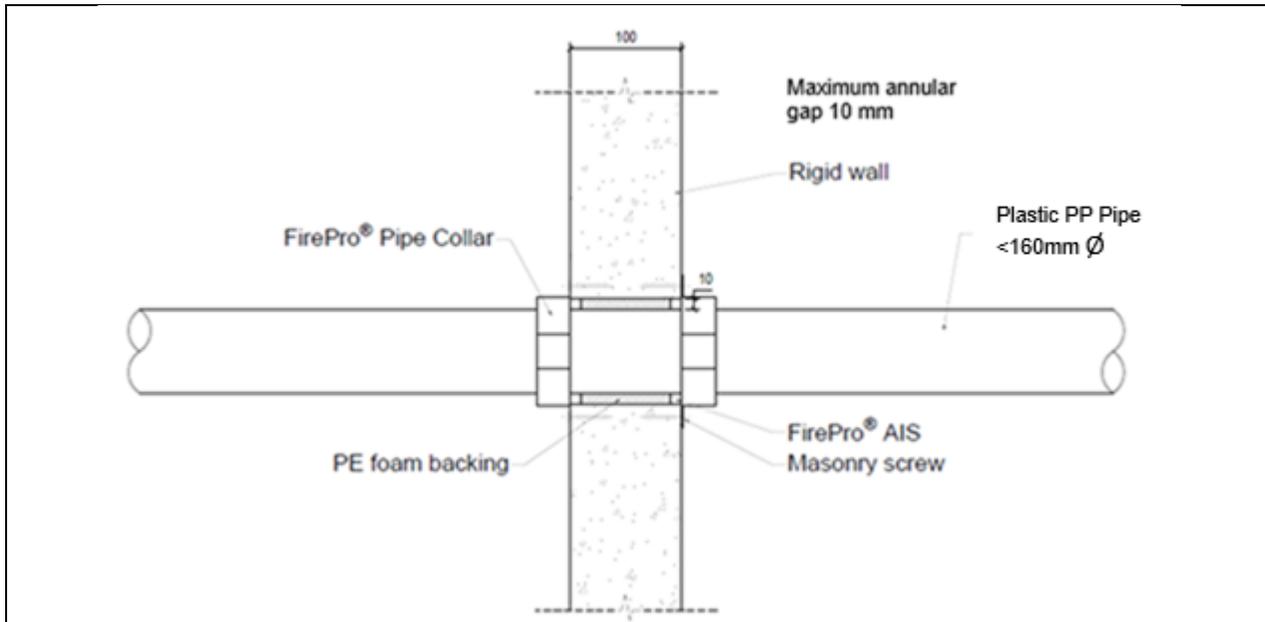


Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.9 – 3.0	2	10 mm deep FirePro® AIS, to both faces over 10 mm deep PE backing. Pipe collar fixed to the wall with 3 drywall screws, on collar to each face.	60mm Ø	EI 120 U/C
55	55	2.4 – 3.8	3		75mm Ø	EI 120 U/C
63	63	2.7 – 4.2	3		83mm Ø	EI 120 U/C
75	75	3.1 – 4.8	3		95mm Ø	EI 120 U/C
82	82	3.3 – 5.2	4		102mm Ø	EI 120 U/C
90	90	3.5 – 5.6	4		110mm Ø	EI 120 U/C
110	110	4.2 – 6.6	4		130mm Ø	EI 120 U/C
125	125	4.8 – 7.5	5		145mm Ø	EI 120 U/C
140	140	5.4 – 8.3	6		160mm Ø	EI 120 U/C
160	160	6.2 – 9.5	7		180mm Ø	EI 120 U/C

**4.5.3 Rigid walls with a minimum thickness of 100 mm**

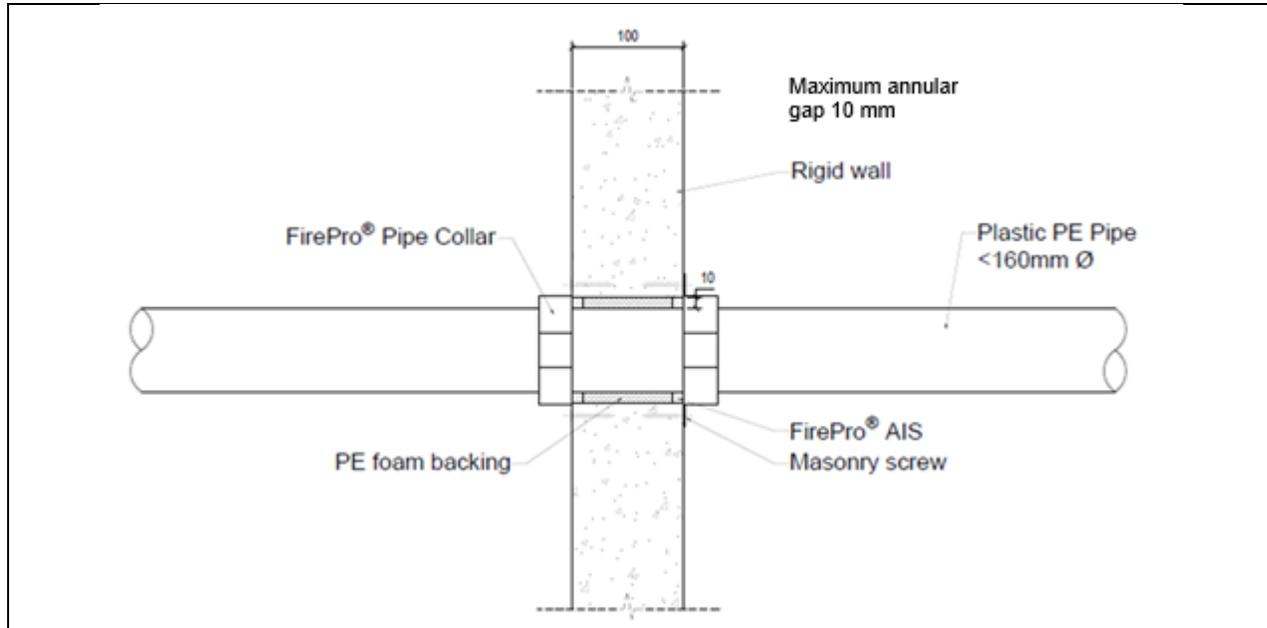
**Plastic pipes protected with FirePro® Pipe Collar and fixed using masonry screws.**

**PP Pipes**



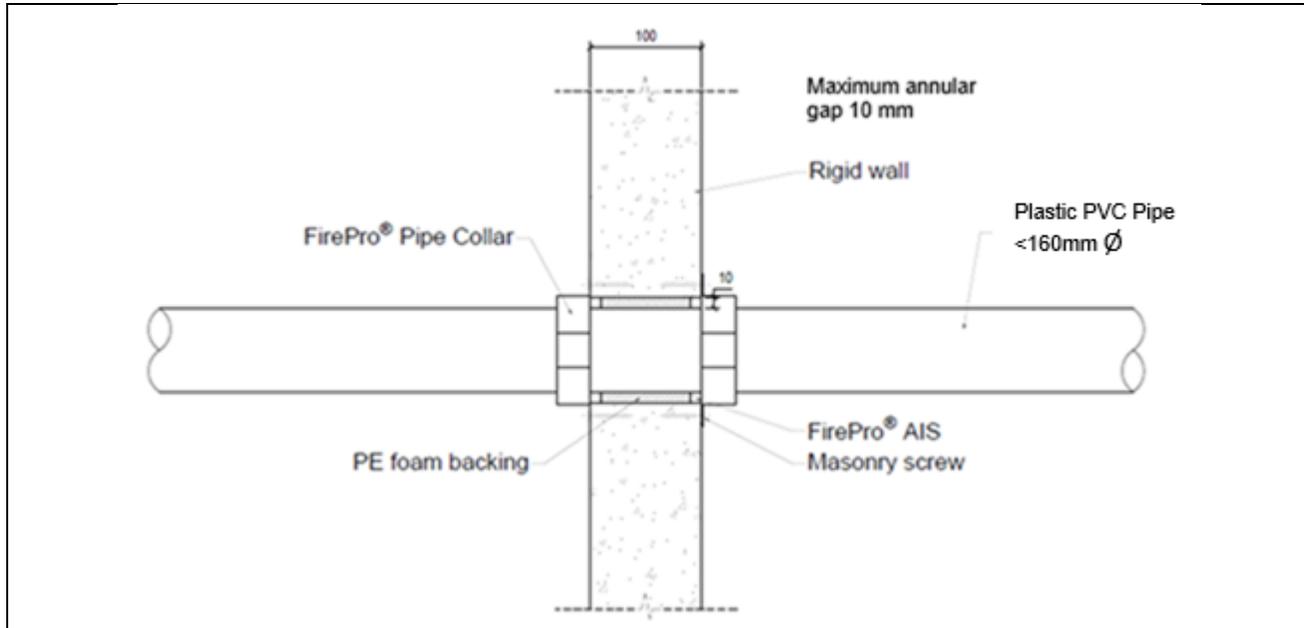
Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.8 – 5.5	2	10 mm deep FirePro® AIS, to both faces over 10 mm deep PE backing. Pipe collar fixed to the wall with 3 masonry screws, on collar to each face	60mm Ø	EI 120 U/C
55	55	2.0 – 5.6	3		75mm Ø	E 120/EI 90 U/C
63	63	2.1 – 5.8	3		83mm Ø	E 120/EI 90 U/C
75	75	2.2 – 5.9	3		95mm Ø	E 120/EI 90 U/C
82	82	2.4 – 6.0	4		102mm Ø	E 120/EI 90 U/C
90	90	2.6 – 6.2	4		110mm Ø	E 120/EI 90 U/C
110	110	2.7 – 6.3	4		130mm Ø	E 120/EI 90 U/C
125	125	3.1 – 7.2	5		145mm Ø	E 120/EI 90 U/C
140	140	3.5 – 8.1	6		160mm Ø	E 120/EI 90 U/C
160	160	4.0 – 9.1	7		180mm Ø	EI 120 U/C

**PE Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	2.4 – 3.7	2	10 mm deep FirePro® AIS, to both faces over 10 mm deep PE backing. Pipe collar fixed to the wall with 3 masonry screws, on collar to each face	60mm Ø	EI 120 U/C
55	55	2.5 – 5.0	3		75mm Ø	E 120/EI 60 U/C
63	63	2.5 – 5.8	3		83mm Ø	E 120/EI 60 U/C
75	75	2.5 – 6.9	3		95mm Ø	E 120/EI 60 U/C
82	82	2.6 – 7.6	4		102mm Ø	E 120/EI 60 U/C
90	90	2.6 – 8.3	4		110mm Ø	E 120/EI 60 U/C
110	110	2.7 - 10	4		130mm Ø	E 120/EI 60 U/C
125	125	3.4 – 9.8	5		145mm Ø	E 120/EI 60 U/C
140	140	4.1 – 9.7	6		160mm Ø	E 120/EI 60 U/C
160	160	4.9 – 9.5	7		180mm Ø	EI 120 U/C

**PVC Pipes**

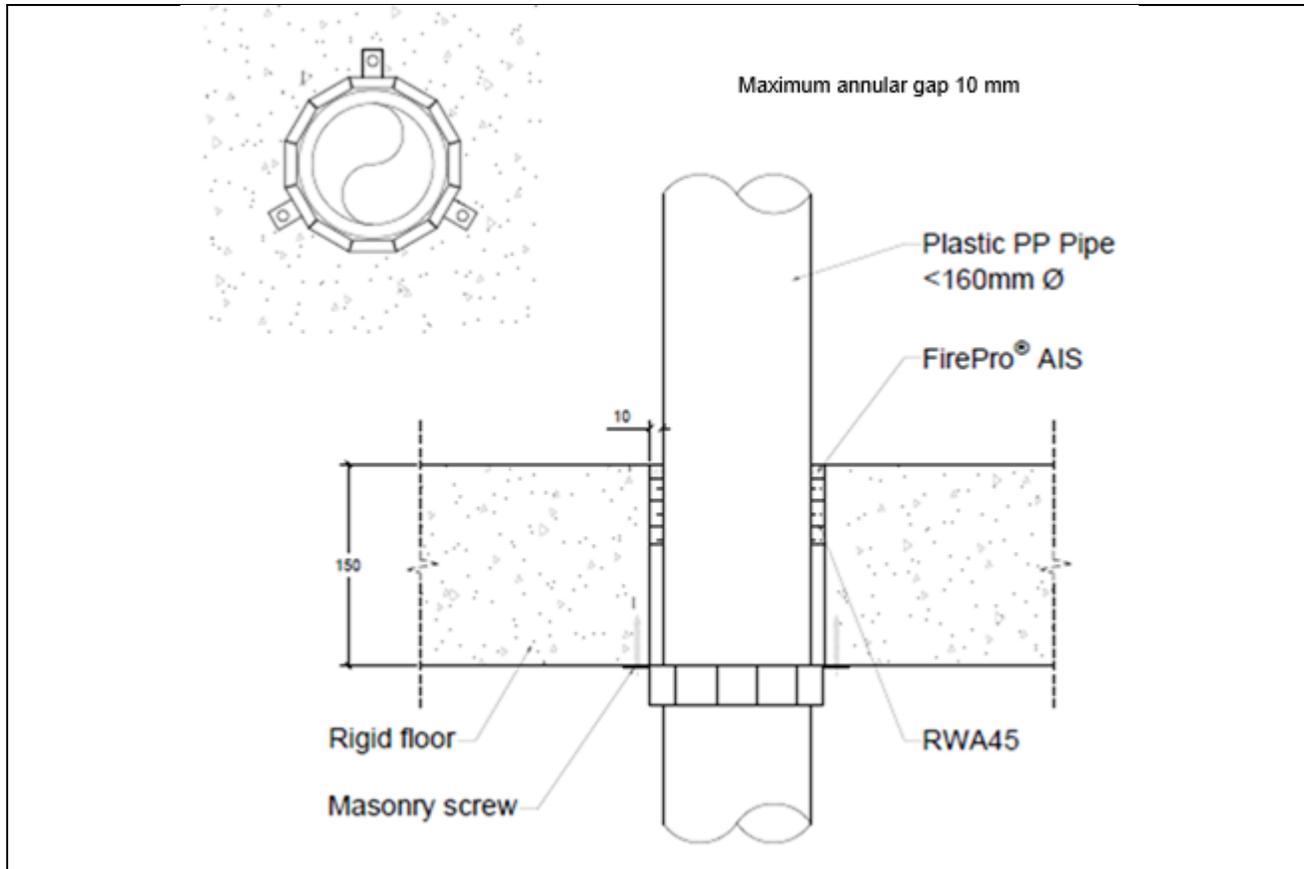


Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	No. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.9 – 3.0	2	10 mm deep FirePro® AIS, to both faces over 10 mm deep PE backing. Pipe collar fixed to the wall with 3 masonry screws, on collar to each face	60mm $\varnothing$	EI 120 U/C
55	55	2.4 – 3.7	3		75mm $\varnothing$	EI 120 U/C
63	63	2.6 – 4.1	3		83mm $\varnothing$	EI 120 U/C
75	75	3.0 – 4.8	3		95mm $\varnothing$	EI 120 U/C
82	82	3.2 – 5.1	4		102mm $\varnothing$	EI 120 U/C
90	90	3.5 – 5.6	4		110mm $\varnothing$	EI 120 U/C
110	110	4.2 – 6.6	4		130mm $\varnothing$	EI 120 U/C
125	125	4.8 – 7.6	5		145mm $\varnothing$	EI 120 U/C
140	140	5.5 – 8.4	6		160mm $\varnothing$	EI 120 U/C
160	160	6.2 – 9.5	7		180mm $\varnothing$	EI 120 U/C

**4.5.4 Rigid Floors with a minimum thickness of 150 mm.**

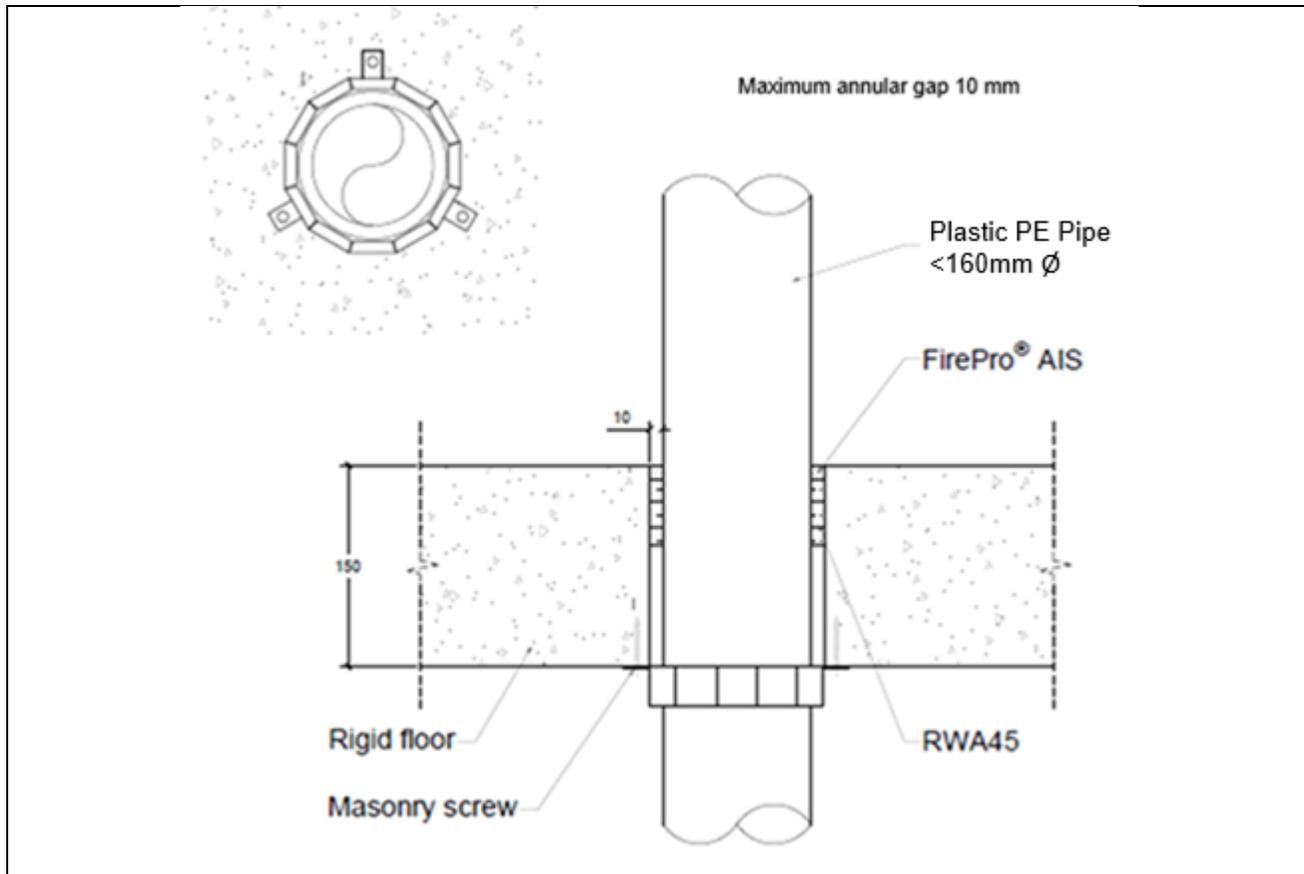
**Plastic pipes protected with FirePro® Pipe Collar and fixed using 80 mm long masonry screw. Aperture sealed on the top of the floor slab.**

**PP Pipes**



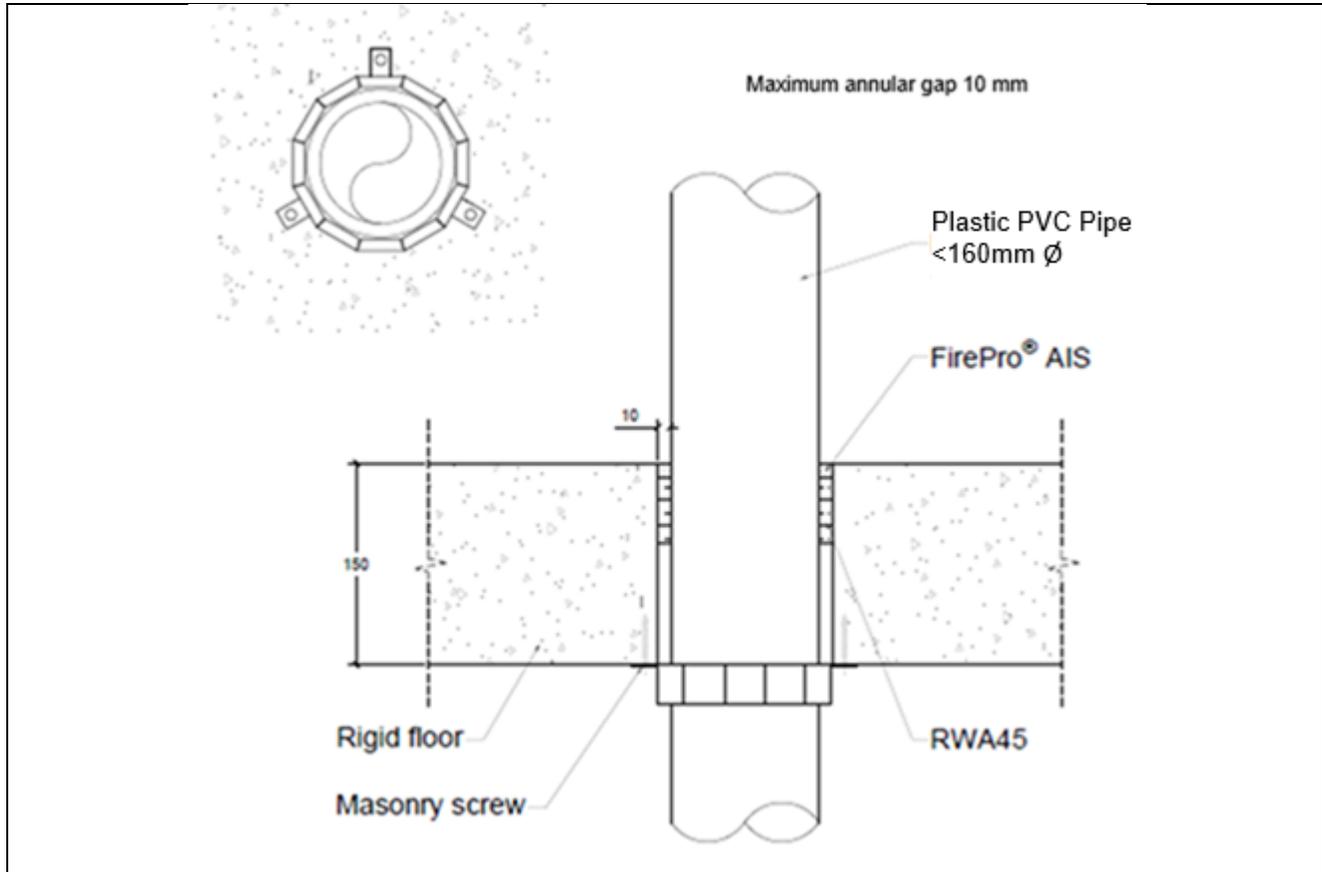
Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	Nr. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.8 – 5.5	2	10 mm deep FirePro® AIS, on the upper face over 50 mm deep mineral wool backing. Pipe collar on the exposed face only, fixed to the underside of the floor with 3 no. steel masonry screws	60mm Ø	EI 240 U/C
55	55	2.1 – 6.0	3		75mm Ø	EI 240 U/C
63	63	2.2 – 6.2	3		83mm Ø	EI 240 U/C
82	82	2.6 – 6.8	4		102mm Ø	EI 240 U/C
160	160	4.0 – 9.1	7		180mm Ø	EI 240 U/C

**PE Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	Nr. of intumescent layers	Seal description	Max. seal size	Classification
40	40	2.4 – 3.7	2	10 mm deep FirePro® AIS, on the upper face over 50 mm deep mineral wool backing. Pipe collar on the exposed face only, fixed to the underside of the floor with 3 no. steel masonry screws	60mm $\phi$	EI 240 U/C
55	55	2.7 – 4.5	3		75mm $\phi$	EI 240 U/C
63	63	2.9 – 4.9	3		83mm $\phi$	EI 240 U/C
82	82	3.3 – 5.8	4		102mm $\phi$	EI 240 U/C
160	160	4.9 – 9.5	7		180mm $\phi$	EI 240 U/C

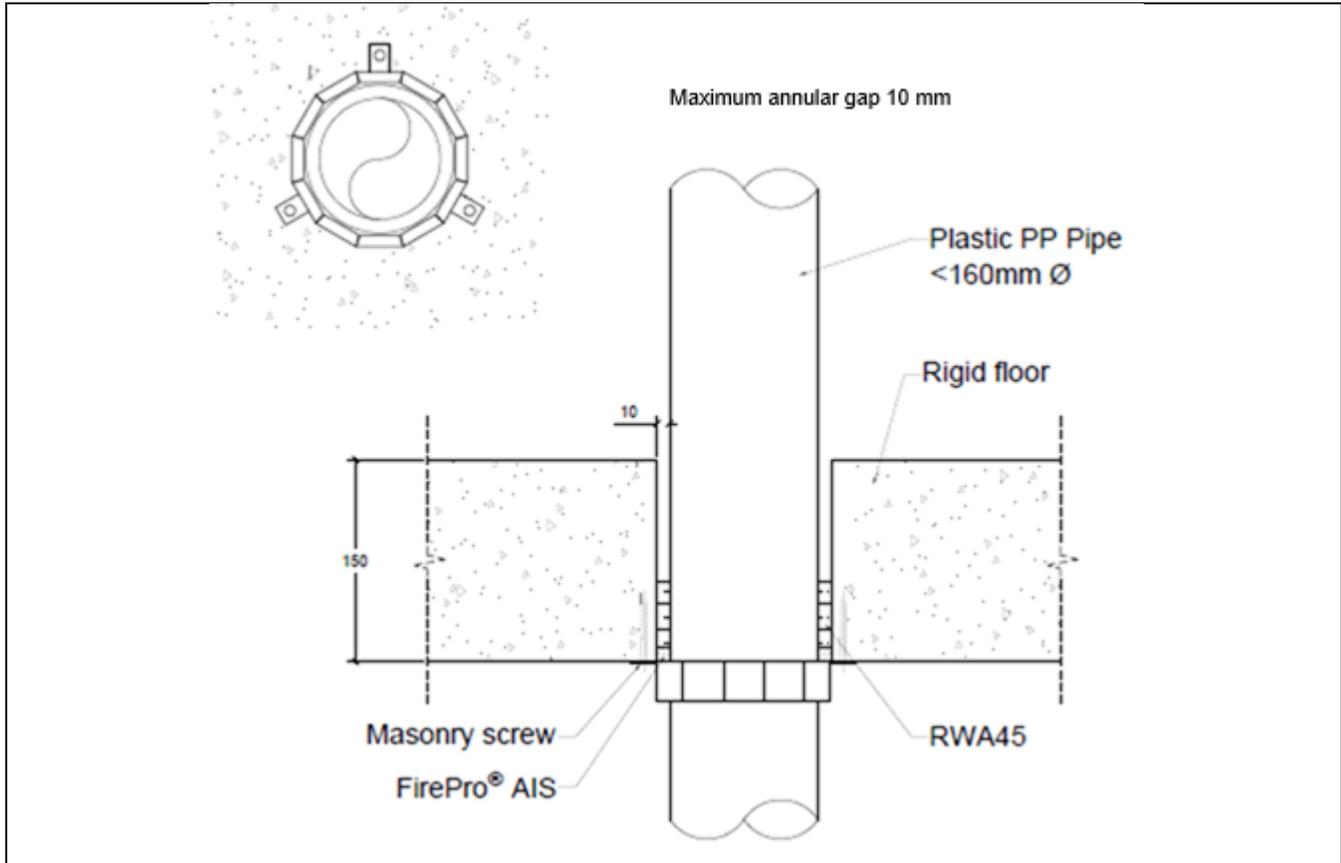
**PVC Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	Nr. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.9 – 3.0	2	10 mm deep FirePro® AIS, on the upper face over 50 mm deep mineral wool backing. Pipe collar on the exposed face only, fixed to the underside of the floor with 3 no. steel masonry screws	60mm Ø	EI 240 U/C
55	55	2.5 – 3.8	3		75mm Ø	EI 240 U/C
63	63	2.8 – 4.3	3		83mm Ø	EI 240 U/C
82	82	3.5 – 5.4	4		102mm Ø	EI 240 U/C
160	160	6.2 – 9.5	7		180mm Ø	EI 240 U/C

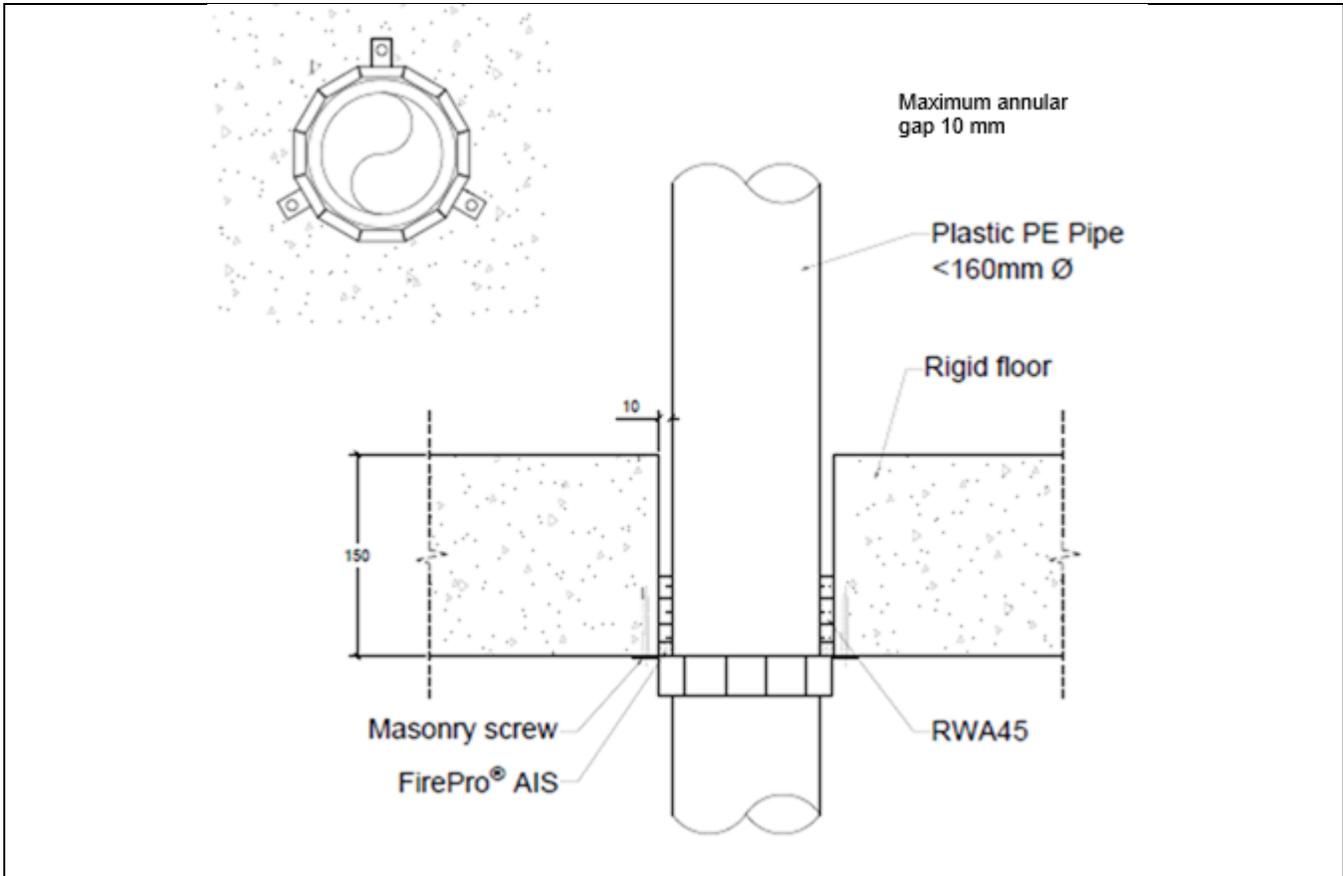
Plastic pipes protected with FirePro® Pipe Collar and fixed using 80 mm long masonry screws. Aperture sealed on the underside of the floor slab.

PP Pipes



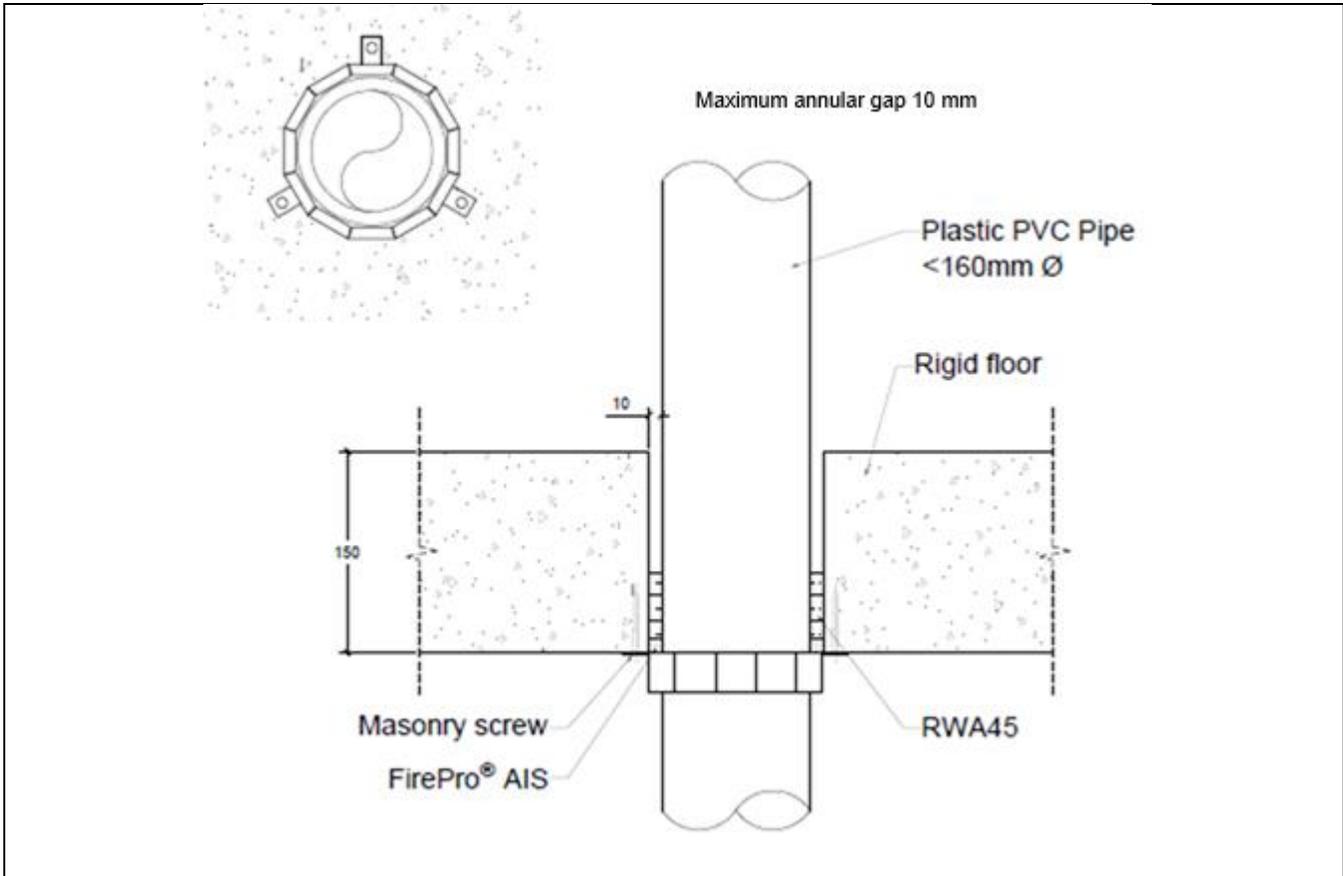
Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	Nr. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.8 – 5.5	2	10 mm annular gap sealed with FirePro® AIS installed over 10 mm deep mineral wool backer to the exposed face. Pipe collar fixed flush with the exposed face of the construction, fixed into place with 80 mm stainless steel aerated concrete screw	60mm Ø	EI 90 U/C
55	55	2 – 6.4	3		75mm Ø	EI 90 U/C
63	63	2.1 – 7.0	3		83mm Ø	EI 90 U/C
75	75	2.3 – 7.7	3		95mm Ø	EI 90 U/C
82	82	2.4 – 8.2	4		102mm Ø	EI 90 U/C
90	90	2.5 – 8.7	4		110mm Ø	EI 90 U/C
110	110	2.7 – 10	4		130mm Ø	EI 90 U/C
125	125	3.1 – 9.7	5		145mm Ø	EI 90 U/C
140	140	3.5 – 9.5	6		160mm Ø	EI 90 U/C
160	160	4.0 – 9.1	7		180mm Ø	EI 90 U/C

**PE Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	Nr. of intumescent layers	Seal description	Max. seal size	Classification
40	40	2.4 – 3.7	2	10 mm annular gap sealed with FirePro® AIS installed over 10 mm deep mineral wool backer to the exposed face. Pipe collar fixed flush with the exposed face of the construction, fixed into place with 80 mm stainless steel aerated concrete screw	60mm Ø	EI 120 U/C
55	55	2.5 – 5.0	3		75mm Ø	EI 120 U/C
63	63	2.5 – 5.8	3		83mm Ø	EI 120 U/C
75	75	2.5 – 6.9	3		95mm Ø	EI 120 U/C
82	82	2.6 – 7.6	4		102mm Ø	EI 120 U/C
90	90	2.6 – 8.3	4		110mm Ø	EI 120 U/C
110	110	2.7 - 10	4		130mm Ø	EI 120 U/C
125	125	3.4 – 9.8	5		145mm Ø	EI 120 U/C
140	140	4.1 – 9.7	6		160mm Ø	EI 120 U/C
160	160	4.9 – 9.5	7		180mm Ø	EI 120 U/C

**PVC Pipes**



Pipe Collar Size (mm)	Pipe size (mm)	Pipe wall thickness range (mm)	Nr. of intumescent layers	Seal description	Max. seal size	Classification
40	40	1.9 – 3.0	2	10 mm annular gap sealed with FirePro® AIS installed over 10 mm deep mineral wool backer backer to the exposed face. Pipe collar fixed flush with the exposed face of the construction, fixed into place with 80 mm stainless steel aerated concrete screw	60mm Ø	EI 120 U/C
55	55	2 – 3.7	3		75mm Ø	EI 90 U/C
63	63	2.1 – 4.1	3		83mm Ø	EI 90 U/C
75	75	2.3 – 4.8	3		95mm Ø	EI 90 U/C
82	82	2.4 – 5.1	4		102mm Ø	EI 90 U/C
90	90	2.5 – 5.6	4		110mm Ø	EI 90 U/C
110	110	4.2 – 6.6	4		130mm Ø	EI 90 U/C
125	125	4.3 – 7.6	5		145mm Ø	EI 90 U/C
140	140	4.5 – 8.4	6		160mm Ø	EI 90 U/C
160	160	4.7 – 9.5	7		180mm Ø	EI 120 U/C

## 5. Limitations

This classification report does not represent type approval or certification of the product.

## 6. Signatories

Report by:

A handwritten signature in black ink, appearing to read 'Andres Jesus Mena Gallego'.

Andres Jesus Mena Gallego  
Associate Project Engineer  
Built Environment

Reviewed by:

A handwritten signature in black ink, appearing to read 'Chris Sweeney'.

Chris Sweeney  
Senior Project Engineer  
Built Environment

For and on behalf of UL International (UK) Ltd.