

Sponsor:

ROCKWOOL Limited
Pencoed
Bridgend
CF35 6NY
United Kingdom
www.rockwool.com



Solutions

Prepared by:

UL International (UK) Ltd

Approved body No.:

0843

Product Name:

FirePro® Flex Seal Coated Strip

Project No.:

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Report No.:

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UL International (UK) Ltd.
220, Cygnet Court, Centre Park, Warrington. WA1 1PP

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1. Introduction

This classification report defines the classification assigned to the element FirePro® Flex Seal Coated Strip, in accordance with the procedures given in EN 13501-2: 2023.

2. Details of classification product

2.1 General

The system is comprised of 100mm thick stone wool lamella strips, which are pre-coated on both sides with a 'Flex Seal' coating. The FirePro® Flex Seal Coated Strips are installed as a single layer within masonry or flexible walls.

2.2 Product description

The element, FirePro® Flex Seal Coated Strip, 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 106884	19/11/2024	BS EN 1366-3: 2021
Warringtonfire Approved Body Number 0833	ROCKWOOL Limited	WF 549197/R Iss3	27/01/2025	BS EN 1366-3: 2021+A1:2024
		WF 549200/R Iss2	03/02/2025	

3.2 ResultsSummary of report No.: FPA 106884

A fire resistance test conducted in accordance with EN 1366-3: 2021 on a ROCKWOOL FirePro® Flex Seal Coated Strip blank penetration sealing system, mounted within an EI90 standard flexible wall.

Specimen	Service type	Integrity (minutes)			Insulation (minutes)
		Cotton Pad	Sustained Flaming	Gap Gauge	
B	Blank Seal 2000 x 1200 mm	142	142	142	142

Summary of report No.: WF 549197 Issue 3

A range of FirePro® Flex Seal Coated Strip penetration seals, penetrating a 100 mm thick standard 90-minute flexible partition assembly.

Specimen A	Seal	Aperture / Services	Specimen	Cotton Pad	Sustained flaming	Gap Gauge	Insulation (minutes)
100mm thick layer of FirePro® Flex Seal Coated Strips fitted within the aperture, with 10mm compression to the height & width. All cuts and butt joints were sealed with FirePro® AIS with a nominal bead around edges & services. After installation an additional coating of Flex Seal was applied to both faces. 40mm ROCKWOOL® DuctWrap, cut to size and wrapped around cable trays, ladders and cables in a LI configuration 300 mm to both faces and secured to service with steel wire.	2000mm high x 1190 mm wide Aperture A1 – 450 mm wide x 50 mm high perforated steel tray supporting 1. No. E Cable, 1. No. D3 Cable, 1. No. D1 Cable A2 – 300 mm wide x 100 mm high galvanized steel ladder supporting 1.No. D3 Cable. A3 – 300 mm wide x 100 mm high galvanized steel ladder supporting 1. No. E Cable, 1. No. C1 Cable. 1. No. C3 Cable. A4 – 300 mm wide x 100 mm high galvanized steel ladder supporting 2. No. B Cables, 3. No. A1 Cables, 3. No. A3 Cables. A5 – 450 mm wide x 50 mm high galvanized steel tray supporting 100 mm Ø bunch F Cables, 2. No. G2 Cables.	Seal	A Seal	146	146	146	120
		A1	A1 Tray	146	146	146	102
		A1	E Cable	146	146	146	102
		A1	D3 Cable	146	146	146	146
		A1	D1 Cable	146	146	146	146
		A2	A2 Ladder	146	146	146	146
		A2	D3 Cable	146	146	146	126
		A3	A3 Ladder	146	146	146	146
		A3	C3 Cable	146	146	146	146
		A3	E Cable	146	146	146	146
		A3	C1 Cable	146	146	146	146
		A4	A4 Ladder	146	146	146	146
		A4	B Cable	146	146	146	146
		A4	A2 Cables	146	146	146	146
		A4	B Cable	146	146	146	146
		A4	A1 Cables	146	146	146	146
		A5	A5 Tray	146	146	146	146
		A5	F Cables	146	146	146	146
		A5	G2 Cables	146	146	146	99
			A Overall	146	146	146	99

Specimen B	Seal	Aperture / Services	Specimen	Cotton Pad	Sustained flaming	Gap Gauge	Insulation (minutes)
100mm thick layer of FirePro® Flex Seal Coated Strips compression fitted within the aperture, with 10mm compression to the height & width. All cuts and butt joints were sealed with FirePro® AIS with a nominal bead around edges & services. After installation an additional coating of Flex Seal was applied to both faces	700 mm high x 900 mm wide Aperture B1 – 450 mm wide x 50 mm high perforated steel tray supporting 1. No. E Cable, 1. No. D3 Cable, 1. No. D1 Cable. B2 – 300 mm wide x 100 mm high galvanized steel ladder supporting 1. No. D3 Cable. B3 – 300 mm wide x 100 mm high galvanized steel ladder supporting 1. No. E Cable, 1. No. C1 Cable. 1. No. C3 Cable. B4 – 300 mm wide x 100 mm high galvanized steel ladder supporting 2. No. B Cables, 3. No. A1 Cables, 3. No. A3 Cables. B5 – 450 mm wide x 50 mm high galvanized steel tray supporting 100 mm Ø bunch F Cables, 2. No. G2 Cables.	Seal	B Seal	146	146	146	135
		B1	B1 Tray	146	146	146	0
		B1	E Cable	146	146	146	75
		B1	D3 Cable	146	146	146	80
		B1	D1 Cable	146	146	146	75
		B2	B2 Ladder	146	146	146	87
		B2	D3 Cable	146	146	146	60
		B3	B3 Ladder	146	146	146	65
		B3	C3 Cable	146	146	146	105
		B3	E Cable	146	146	146	146
		B3	C1 Cable	146	146	146	61
		B4	B4 Ladder	146	146	146	146
		B4	B Cable	146	146	146	80
		B4	A3 Cables	146	146	146	80
		B4	B Cable	146	146	146	113
		B4	A1 Cables	146	146	146	146
		B5	B5 Tray	146	146	146	0
		B5	F Cables	146	146	146	89
		B5	G2 Cables	146	146	146	34
			B Overall	146	146	146	0

Specimen C	Seal	Aperture / Services	Specimen	Cotton Pad	Sustained flaming	Gap Gauge	Insulation (minutes)
100mm thick layer of FirePro® Flex Seal Coated Strips compression fitted within the aperture, with 10mm compression to the height & width. All cuts and butt joints were sealed with FirePro® AIS with a nominal bead around edges & services. After installation an additional coating of Flex Seal was applied to both faces. 40mm ROCKWOOL® DuctWrap, cut to size and wrapped around cable trays, ladders and cables in a LI configuration 300 mm to both faces and secured to service with steel wire.	700 mm high x 900 mm wide Aperture C1 – 450 mm wide x 50 mm high perforated steel tray supporting 1. No. E Cable, 1. No. D3 Cable, 1. No. D1 Cable, 100 mm Ø bunch F Cables. C2 – 300 mm wide x 100 mm high galvanized steel ladder supporting 1. No. C1 Cable, 1. No. C3 Cable. 1. No. E Cable, 3. No. A1 Cables, 3. No. A3 Cables, 2. No. B Cables. C3 – 300 mm wide x 100 mm high galvanized steel ladder supporting 1. No. D3 Cable, 2. No. G2 Cables.	Seal	C Seal	146	146	146	146
		C1	C1 Tray	146	146	146	146
		C1	D1 Cable	146	146	146	146
		C1	D3 Cable	146	146	146	146
		C1	F Bunch	146	146	146	146
		C1	E Cable	146	146	146	146
		C2	C2 Ladder	146	146	146	146
		C2	C1 Cable	146	146	146	146
		C2	E Cable	146	146	146	79
		C2	C3 Cable	146	146	146	126
		C2	A3 Cables	146	146	146	136
		C2	B Cable	146	146	146	146
		C2	A1 Cables	146	146	146	146
		C2	B Cable	146	146	146	146
		C3	C3 Ladder	146	146	146	146
		C3	D3 Cable	146	146	146	146
		C3	G2 Cables	146	146	146	130
			C Overall	146	146	146	79

Summary of report No.: WF 549200 Issue 2

A range of FirePro® Flex Seal Coated Strip penetration seals, penetrating a 100 mm thick standard 90-minute flexible partition assembly. All pipe end configurations were tested as U/C.

Seal	Aperture / Services	Specimen	Integrity (minutes)			
			Cotton Pad	Sustained flaming	Gap Gauge	Insulation (minutes)
		B - Seal	150	150	150	120
100 mm thick FirePro® Flex Seal Coated strip compression fitted 10 mm across the width within the aperture on a bed of FirePro® AIS sealant. All gaps and joints were sealed with FirePro® flexi seal coating. 3 layers of 2 mm thick FirePro® PWROLL was installed around the pipe flush with the batt on both faces of the wall. All cuts and butt joints were sealed with FirePro® AIS with a nominal bead around edges and services.	595 mm wide by 350 mm high partition Aperture / 110 mm Ø by 4.2 mm wall thickness PVC Pipe.	B1	150	150	150	134
	595 mm wide by 350 mm high partition Aperture / 110 mm Ø by 6.6 mm wall thickness PVC pipe.	B2	150	150	150	98
100 mm thick FirePro® Flex Seal Coated Strip compression fitted 10 mm across the width within the aperture on a bed of FirePro® AIS sealant. All gaps and joints were sealed with FirePro® flexi seal coating. 4 layers of 2 mm thick FIREPRO® PWROLL was installed around the pipe flush with the batt on both faces of the wall. All cuts and butt joints were sealed with FirePro® AIS with a nominal bead around edges and services.	595 mm wide by 350 mm high partition Aperture / 160 mm Ø by 6.2 mm wall thickness PVCu pipe.	B3	150	150	150	142

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, ROCKWOOL FirePro® FirePro® Flex Seal Coated Strip 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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4.2.1 Supporting substrate types

Substrate type	Minimum specification
Double skin flexible walls	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.
Rigid walls	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 ³ .

4.2.2 Summary of assumptions

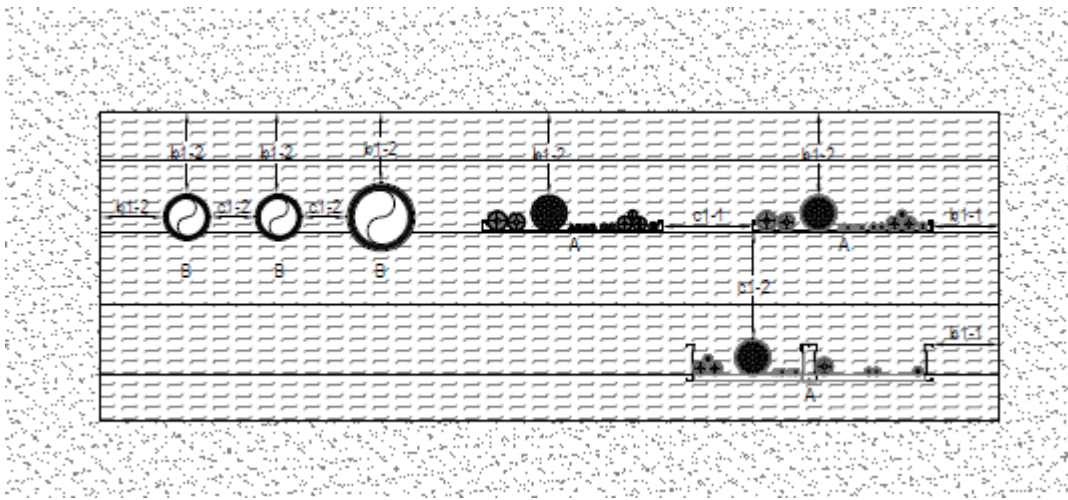
The ROCKWOOL FirePro® Flex Seal Coated Strip shall be installed in line with the details given in the latest revision of Classification report UL 4791606922.1-01.

Service Supports

All service supports shall be a maximum of 450 mm from the face of the supporting construction.

Service arrangement (spacings)– distances as defined by EN 1366-3: 2021+A1:2024

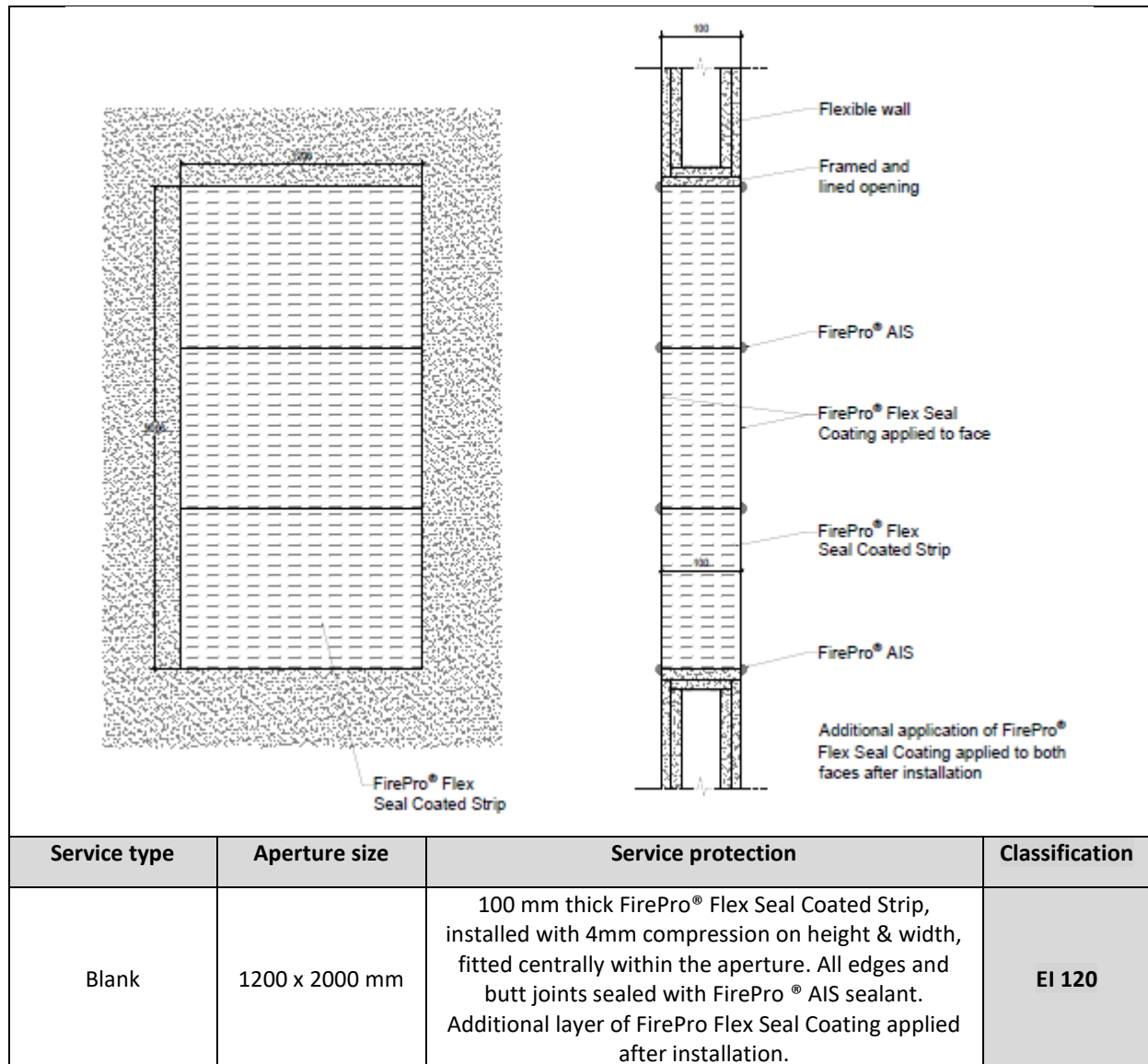
Distance type	Distance reference	Spacing distance
Penetration seal to penetration seal	a1	200 mm
Services to aperture edges	b1-1	0 mm
	b1-2	50 mm
	b1-3	100 mm
Services in multi-service penetration seal	c1-1	0 mm
	c1-2	50 mm
	C1-3	100 mm



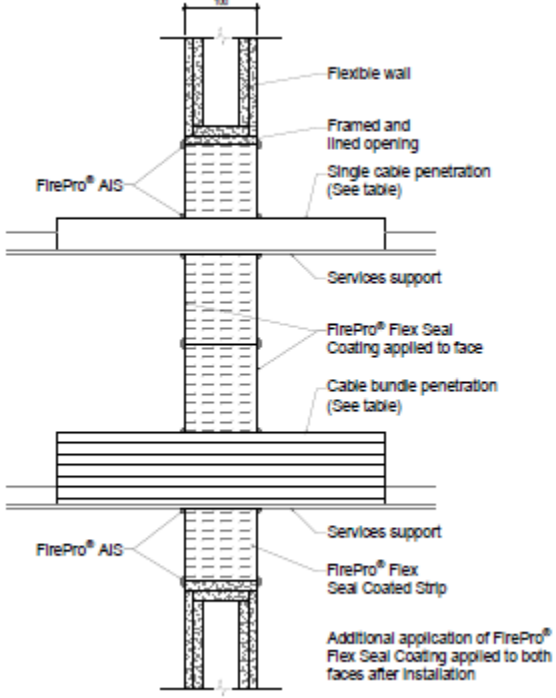
Service Ref	Service type
A	Cables/Cable carrier
B	Plastic Pipes with PWRoll

4.3.1 Double Skin Flexible walls $\geq 100\text{mm}$

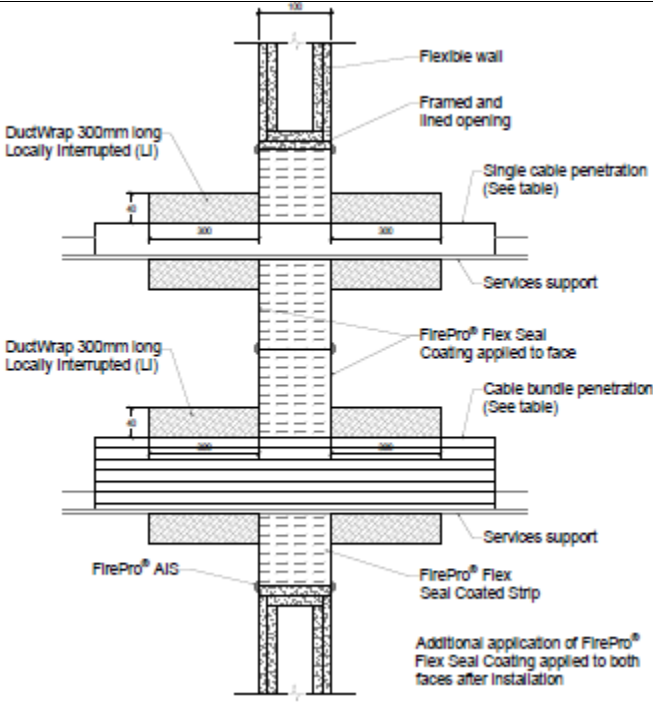
4.3.1.1 Blank Seal – framed and lined openings



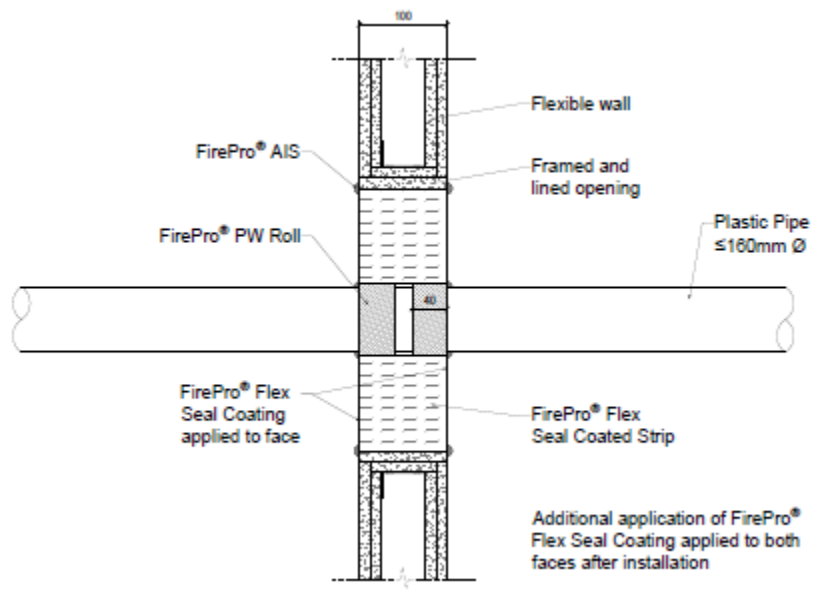
4.3.1.2 Cable Penetrations - unlagged

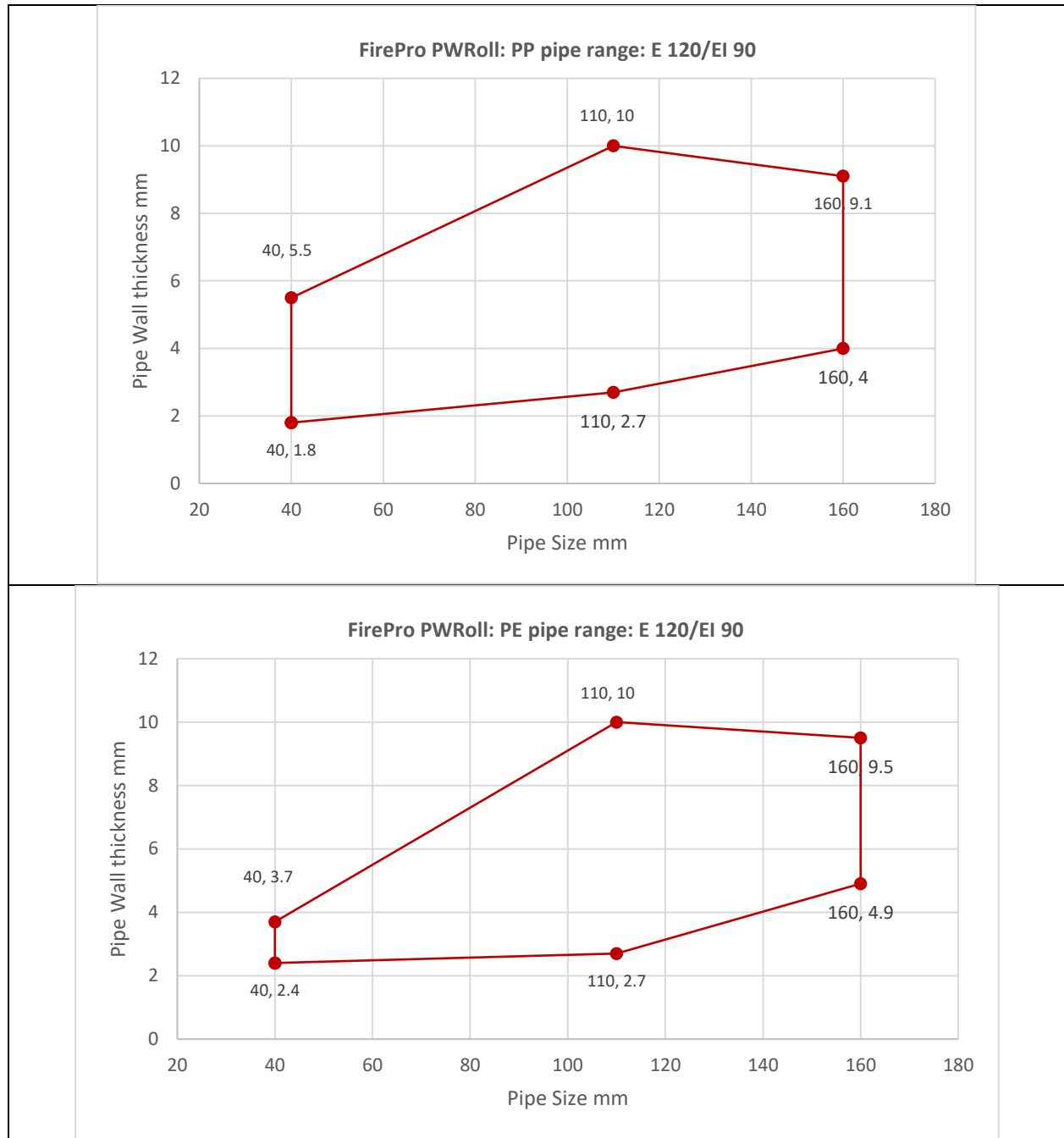
				
Service type		Service size (mm)	Service protection	Classification
Sheathed cables	S	≤ 21	100 mm thick FirePro® Flex Seal Coated Strip, installed with 10 mm compression on height & width, fitted centrally within the aperture. All edges and butt joints sealed with FirePro® AIS sealant. Additional layer of FirePro Flex Seal Coating applied to both faces after installation.	E 120/EI 60
	M	≤ 50		E 120 / EI 60
	L	≤ 80		E 120 / EI 60
Cable bundle		$\leq \varnothing 100$ cable bundle of $\leq \varnothing 21$ cables		E 120 / EI 60
Unsheathed cables		≤ 24		E 120 / EI 30
Galvanized steel trays, stainless steel trays, non-perforated steel trays and cable ladders		Unrestricted		E 120 / EI 60

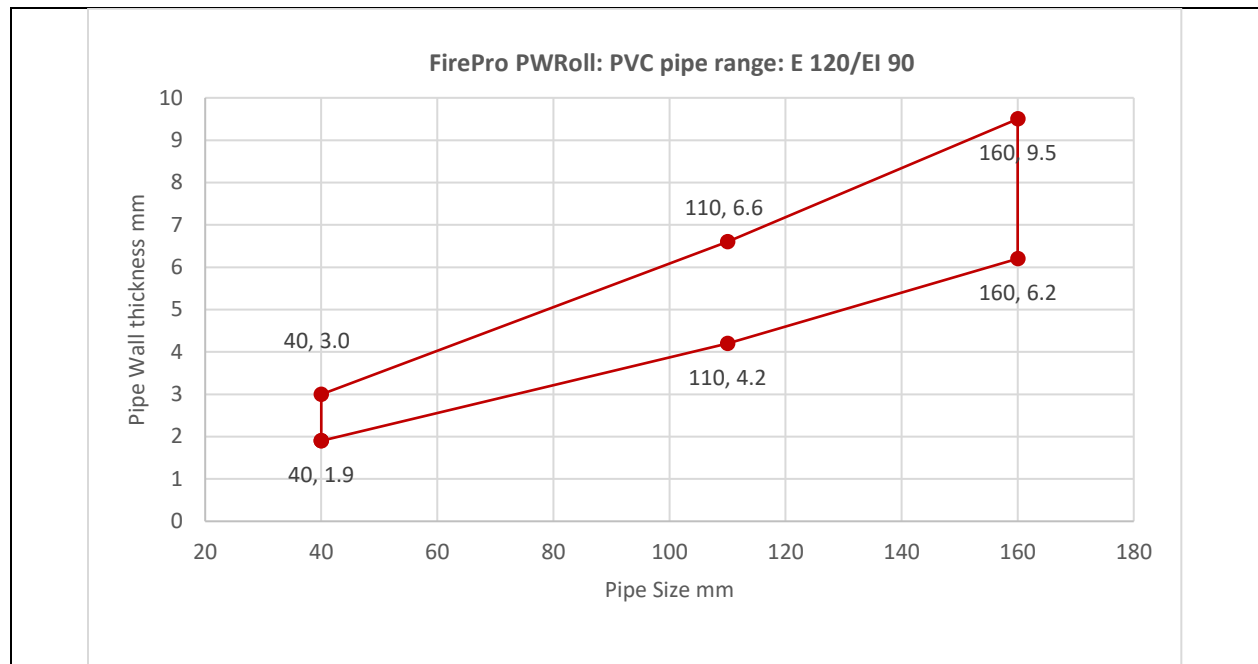
4.3.1.3 Cable Penetrations - Lagged

				
Service type		Service size (mm)	Service Protection	Classification
Sheathed cables	S	≤21	100 mm thick FirePro® Flex Seal Coated Strip, installed with 10 mm compression on height & width, fitted centrally within the aperture. All edges and butt joints sealed with FirePro® AIS sealant. Additional layer of FirePro Flex Seal Coating applied after installation. 40 mm ROCKWOOL® DuctWrap, cut to size and wrapped around the service item in a local interrupted configuration 300 mm to both faces and secured to service with steel wire.	EI 120
	M	≤50		E 120 / EI 60
	L	≤80		E 120 / EI 60
Cable bundle		≤Ø100 cable bundle of ≤Ø21 cables		EI 120
Unsheathed cables		≤24		EI 120
Perforated steel tray, or basket		Unrestricted		EI 120
Cable ladder		Unrestricted		EI 120

4.3.1.4 Plastic Pipe Penetrations – FirePro PWRoll

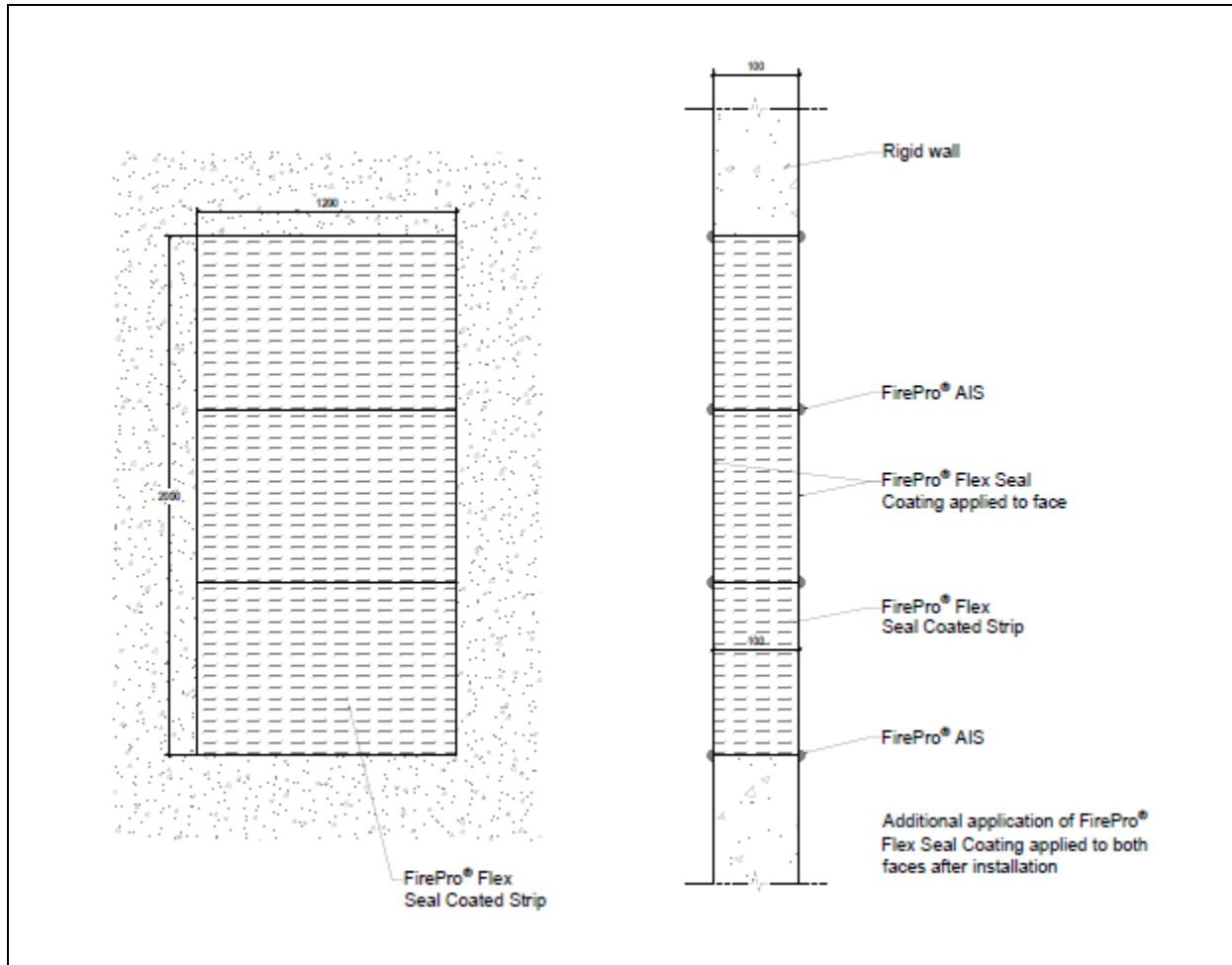
					
Pipe material	Pipe size (mm)	Pipe Wrap layers (2mm)	Service Protection		Classification
PP/PE/PVC	≤40	1	100 mm thick FirePro® Flex Seal Coated Strip, installed with 10mm compression across the width, fitted centrally within the aperture. All edges and butt joints sealed with FirePro® AIS sealant. Additional layer of FirePro Flex Seal Coating applied after installation. FirePro® PWROLL wraps installed flush with each face of the seal, around the service.		E 120/EI 90 U/C
	41-79	2			
	80-120	3			
	121-160	4			





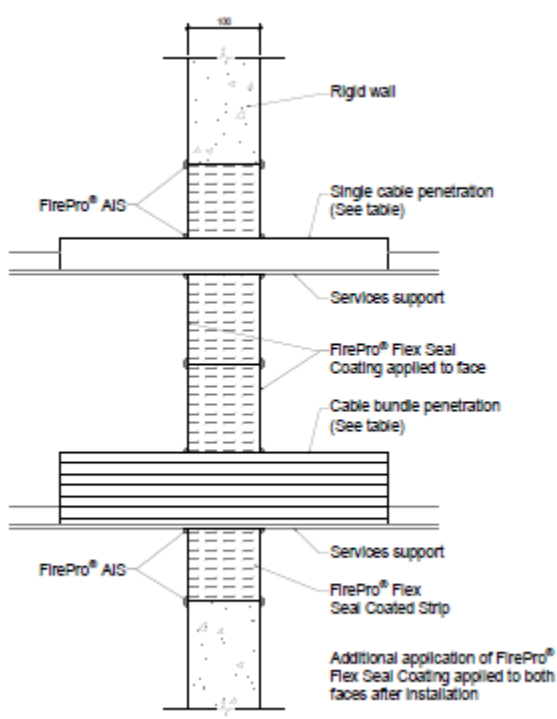
4.3.2 Rigid walls $\geq 100\text{mm}$

4.3.2.1 Blank Seal

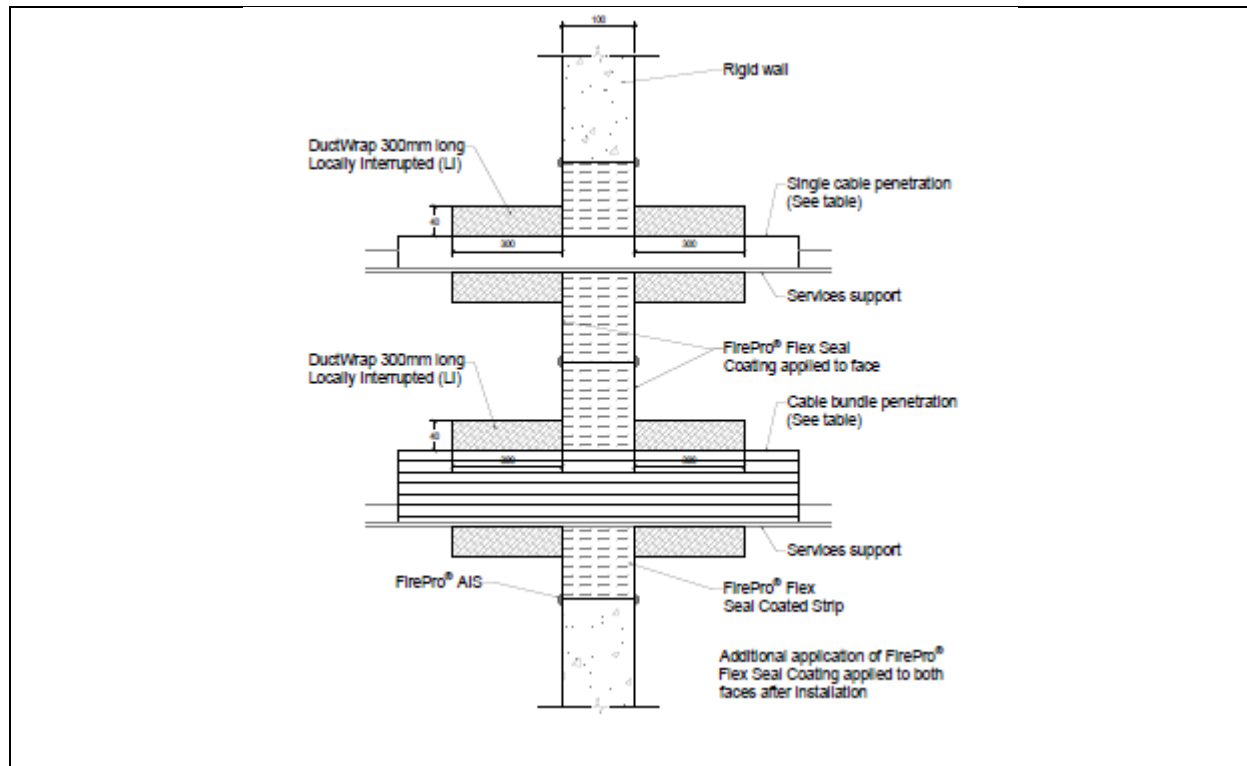


Service type	Aperture size	Service protection	Classification
Blank	1200 x 2000 mm	100 mm thick FirePro® Flex Seal Coated Strip, installed with 4mm compression on height & width, fitted centrally within the aperture. All edges and butt joints sealed with FirePro® AIS sealant. Additional layer of FirePro Flex Seal Coating applied after installation.	EI 120

4.3.2.2 Cable Penetrations - unlagged

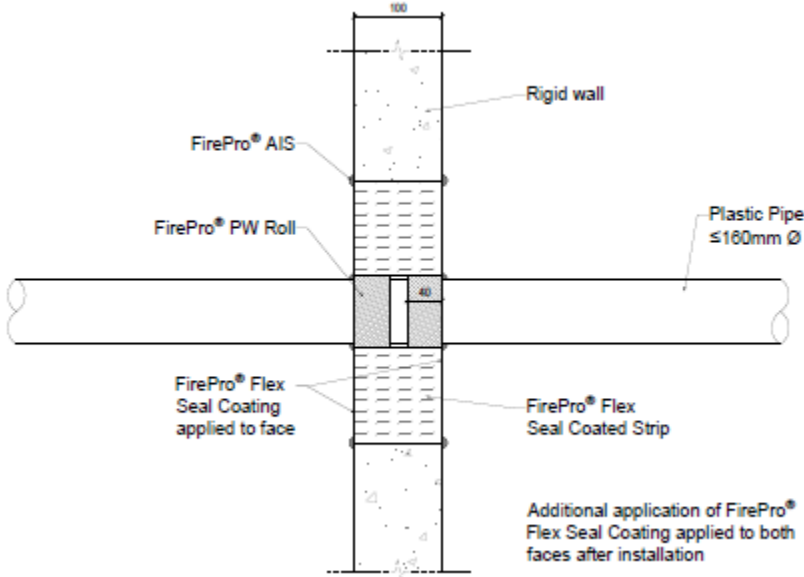
				
Service type		Service size (mm)	Service protection	Classification
Sheathed cables	S	≤ 21	100 mm FirePro® Flex Seal Coated Strip, installed with 10 mm compression on height & width, fitted centrally within the aperture. All edges and butt joints sealed with FirePro® AIS sealant. Additional layer of FirePro Flex Seal Coating applied after installation.	E 120 / EI 60
	M	≤ 50		E 120 / EI 60
	L	≤ 80		E 120 / EI 60
Cable bundle		$\leq \varnothing 100$ cable bundle of $\leq \varnothing 21$ cables		E 120 / EI 60
Unsheathed cables		≤ 24		E 120 / EI 30
Galvanized steel trays, stainless steel trays, non-perforated steel trays and cable ladders		Unrestricted		E 120 / EI 60

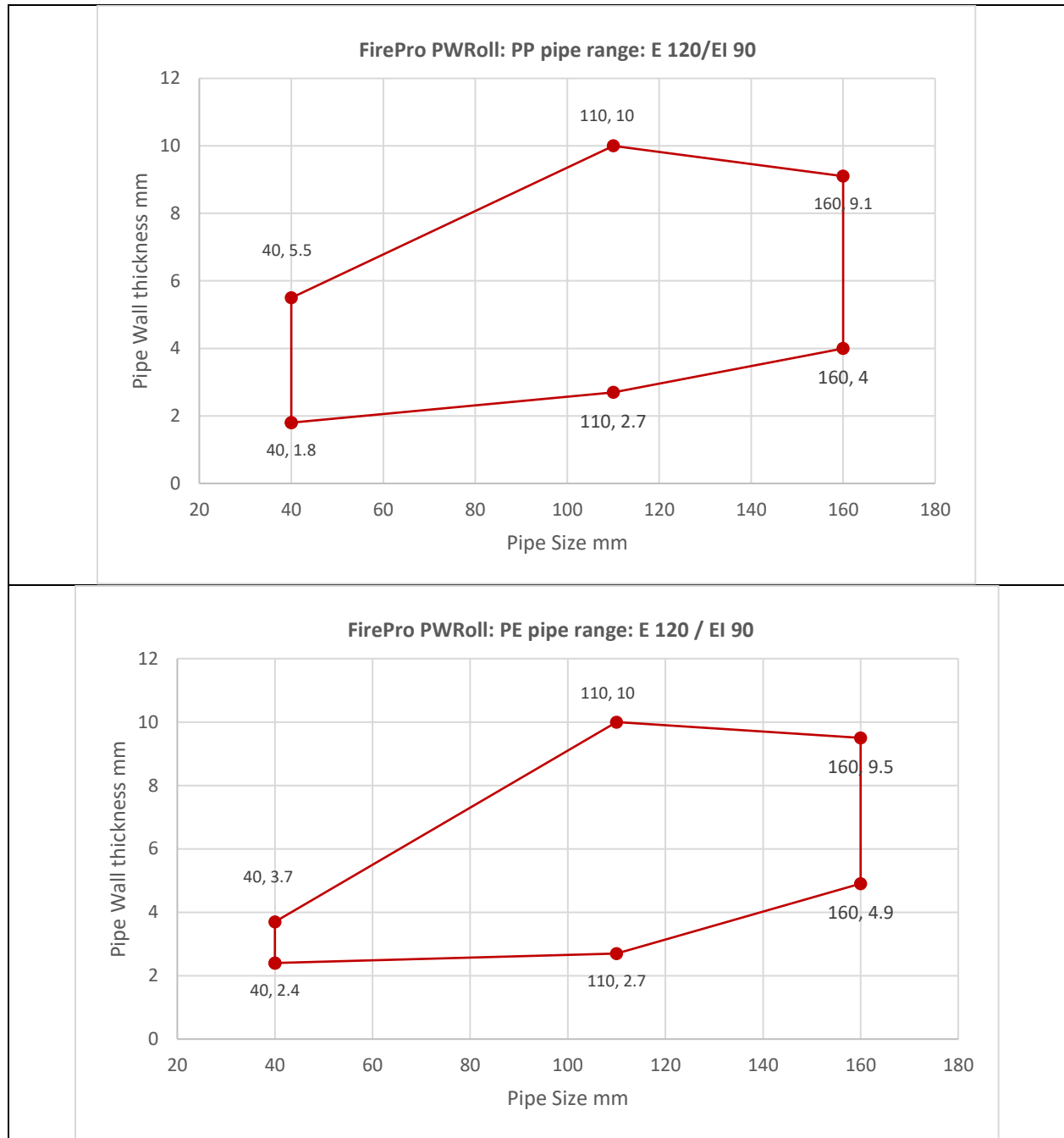
4.3.2.3 Cable Penetrations - Lagged

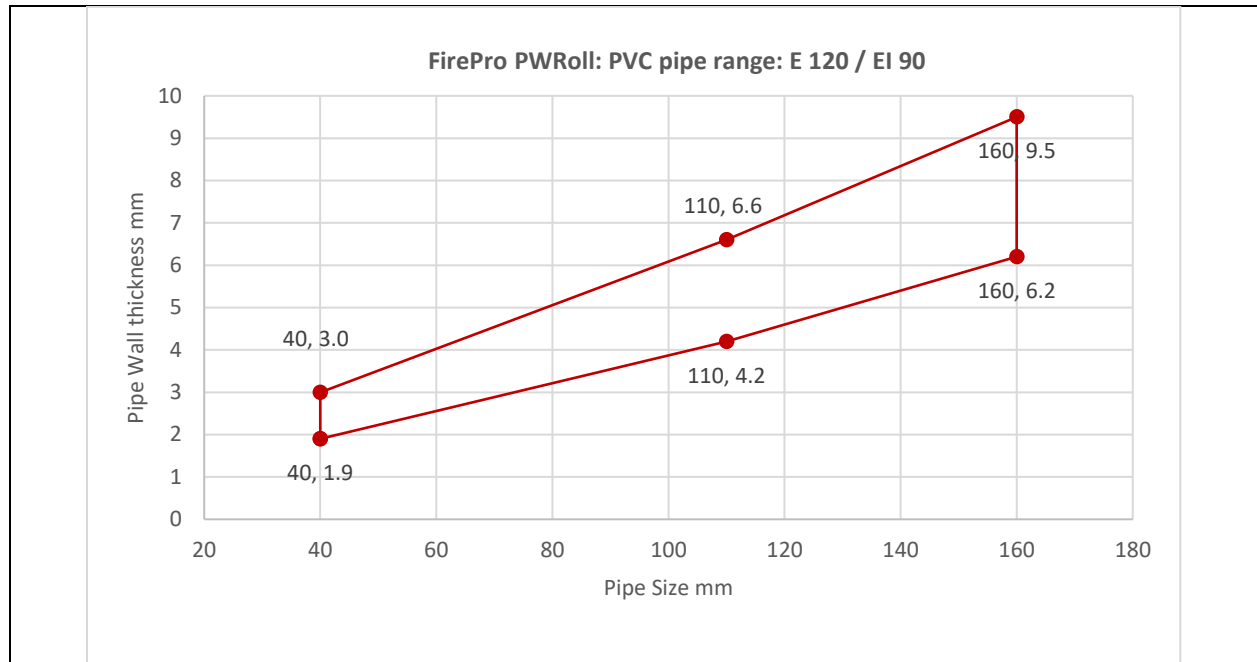


Service type		Service size (mm)	Service Protection	Classification
Sheathed cables	S	≤ 21	100 mm thick FirePro® Flex Seal Coated Strip, installed with 10 mm compression on height & width, fitted centrally within the aperture. All edges and butt joints sealed with FirePro® AIS sealant. Additional layer of FirePro Flex Seal Coating applied after installation. 40 mm ROCKWOOL® DuctWrap, cut to size and wrapped around the service item in a local interrupted configuration 300 mm to both faces and secured to service with steel wire.	EI 120
	M	≤ 50		E 120 / EI 60
	L	≤ 80		E 120 / EI 60
Cable bundle		$\leq \varnothing 100$ cable bundle of $\leq \varnothing 21$ cables		EI 120
Unsheathed cables		≤ 24		EI 120
perforated tray, or basket		Unrestricted		EI 120
Cable ladder		Unrestricted		EI 120

4.3.2.4 Plastic Pipe Penetrations – FirePro PWRoll

					
Pipe material	Pipe size (mm)	Pipe Wrap layers (2mm)	Service Protection		Classification
PP/PE/PVC	≤40	1	100 mm thick FirePro® Flex Seal Coated Strip, installed with 10mm compression across the width, fitted centrally within the aperture. All edges and butt joints sealed with FirePro® AIS sealant. Additional layer of FirePro Flex Seal Coating applied after installation. FirePro® PWROLL wraps installed flush with each face of the seal, around the service.		E 120 / EI 90 U/C
	41-79	2			
	80-120	3			
	121-160	4			





4.3 Field of Application – Penetrations

See EN 1366-3: 2021, Clause 13 (as appropriate) for the field of direct application rules that may be applied.

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.