Sponsor:

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

Prepared by:
UL International (UK) Ltd

Approved body No.:
0843

Product Name:
FirePro® AIS Fire Resistant Sealant

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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 product FirePro® AIS Fire Resistant Sealant, in accordance with the procedures given in EN 13501-2: 2023.

2. Details of classification product

2.1 General

The product FirePro® AIS Fire Resistant Sealant is a one-part water based acrylic sealant that is designed for use in the installation of FirePro® CB50, sealing linear joints and some individual service penetrations passing through various substrates.

2.2 Product description

The element, FirePro® AIS Fire Resistant Sealant, 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 – UK Accreditation nr. 10536	Rockwool Limited	FPA 106131 r0	09/05/2024	BS EN 1366-3: 2021
		FPA 106132 r0	23/05/2024	BS EN 1366-3: 2021
		FPA 106404 r0	27/08/2024	BS EN 1366-3: 2021 & BS EN 1366-4: 2021
Warringtonfire Testing and Certification Limited – UKAS Accreditation nr. 0249	Rockwool Limited	549198/R Iss2	28/01/2025	BS EN 1366-3: 2021+A1:2024
		549199/R Iss2	29/01/2025	BS EN 1366-3: 2021+A1:2024

3.2 Results

Summary of report No.: FPA 106131 r0

A fire resistance test in accordance with BS EN 1366-3: 2021, on a range of ROCKWOOL Ltd FirePro® AIS Fire Resistant Sealant acrylic based intumescent sealant cable penetration seals penetrating apertures formed within a standard EN 1366-3 specification low density rigid floor supporting construction. All seals installed on the top face only:

Seal	Aperture (mm)	Service cable type	AIS Seal depth (mm)	Backing material	Min annular gap (mm)	Duct wrap (mm)	Integrity (minutes)			Insulation (minutes)
							Sustained flaming	Cotton pad	Gap gauge	
A	Ø100	D3	25	100 mm RWA45	0	n/a	146*	144	146*	73
B	Ø100	E	25		0	n/a	207#	207#	207#	98
C	Ø100	B	25		0	n/a	207#	207#	207#	68
D	Ø100	G2	25		0	n/a	207#	207#	207#	71
E	Ø100	D3	25		20	n/a	207#	207#	207#	70
F	Ø100	E	25		20	n/a	207#	207#	207#	111
G	Ø100	B	25		20	n/a	207#	207#	207#	207#
H	Ø100	G2	25		20	n/a	207#	207#	207#	107
I	Ø100	D3	25		0	300	163	163	207#	151
J	Ø100	E	25		0	300	207#	207#	207#	0**
K	Ø100	B	25		0	300	207#	207#	207#	194
L	Ø100	G2	25		0	300	207#	207#	207#	191
M	Ø160	Ø100mm F bunch	25		0	300	207#	207#	207#	207#
N	Ø160	Ø100mm F bunch	25		0	N/A	170	170	182*	102
O	Ø160	Ø100mm F bunch	25		20	N/A	183*	179	183*	112
P	200 x 200	Blank	25		n/a	n/a	207#	207#	207#	207#

* Specimen blanked off

** Unable to evaluate. Cable temperature not measured

Test was discontinued after a period of 207 minutes without a failure being observed.

Summary of report No.: FPA 106132 r0

A fire resistance test in accordance with BS EN 1366-3: 2021, on a range of ROCKWOOL Ltd FirePro® AIS Fire Resistant Sealant acrylic based intumescent sealant cable 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.

Flexible wall – 100 mm

Seal	Aperture (mm)	Service cable type	AIS Seal depth (mm)	Backing material	Backing depth (mm)	Integrity (minutes)			Insulation (minutes)
						Sustained flaming	Cotton pad	Gap gauge	
E	150 x 150	D1,D3, E	25	RWA45	50	132*	114	132*	71
F	150 x 150	C1,C3, E	25		50	132*	124	132*	89
G	150 x 150	2 x G2	25		50	132*	132*	132*	34
H	150 x 150	3 X A1, 3 X A3, 2 X B	25		50	132*	132*	132*	87
K	150 x 150	Ø100mm F bunch	25		50	132*	132*	132*	132*
L	150 x 150	Blank	25		50	132*	132*	132*	132*

* Test was discontinued after a period of 132 minutes without a failure being observed

Rigid wall – 100 mm

Seal	Aperture (mm)	Service cable type	AIS Seal depth (mm)	Backing material	Backing depth (mm)	Integrity (minutes)			Insulation (minutes)
						Sustained flaming	Cotton pad	Gap gauge	
E2	150 x 150	D1,D3, E	25	RWA45	50	132*	128	132*	70
F2	150 x 150	C1,C3, E	25		50	132*	132*	132*	78
G2	150 x 150	2 x G2	25		50	132*	132*	132*	47
H2	150 x 150	3 X A1, 3 X A3, 2 X B	25		50	132*	132*	132*	85
K2	150 x 150	Ø100mm F bunch	25		50	132*	132*	132*	57
L2	150 x 150	Blank	25		50	132*	132*	132*	132*

* Test was discontinued after a period of 132 minutes without a failure being observed

Summary of report No.: FPA 106404 r0

A fire resistance test in accordance with BS EN 1366-3: 2021, on a ROCKWOOL Ltd FirePro® AIS Fire Resistant Sealant acrylic based intumescent sealant cable penetration seal, penetrating an aperture formed within a standard EN 1366-3 specification, low density rigid floor supporting construction. All seals installed on the top face only:

Seal	Aperture (mm)	Service cable type	AIS Seal depth (mm)	Backing material	Min annular gap (mm)	Duct wrap length (mm)	Integrity (minutes)			Insulation (minutes)
							Sustained flaming	Cotton pad	Gap gauge	
C	Ø100	E	25	100 mm RWA45	0	300	264*	264*	264*	256

Summary of report No.: 549198/R Iss2

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

Specimen	**Service type**	**Service**	**Integrity (minutes)**			**Insulation (minutes)**
			Cotton Pad	**Sustained Flaming**	**Gap Gauge**	
G	25 mm thick layer of RockLap H&V Pipe Section installed around the service in a locally sustained configuration. 0 to 25 mm wide annular gap sealed with a 12.5 mm deep layer of FirePro® AIS Fire Resistant Sealant installed either side of a 50 mm thick layer of RWA45 insulation.	178 mm Ø Aperture 108 mm Ø by 1.2 mm wall thickness copper pipe installed with a min annular gap of 0mm, C/U.	52	52	68*	39
P1	25 mm thick layer of RockLap H & V Pipe section insulation wrapped around the services in local sustained configuration. 0 to 20mm annular gap sealed with a 12.5 mm deep layer of FirePro® AIS Fire Resistant Sealant installed either side of a 50 mm thick layer of RWA45 insulation.	280 mm wide by 110 mm high Aperture 3 No. 42 mm Ø by 1.2 mm wall thickness copper pipes, C/U.	33	33	33#	28
P2			33	33	33#	26
P3			33	33	33#	27

*Test was discontinued after a period of 68 minutes.

#Specimen extinguished.

Summary of report No.: 549199/R Iss2

A fire resistance test in accordance with BS EN 1366-3: 2021+A1:2024, on a range of ROCKWOOL Ltd FirePro® AIS Fire Resistant Sealant acrylic based intumescent sealant penetration seals, penetrating apertures formed within a 100 mm thick standard EN 1366-3 flexible stud wall. All specimens were sealed symmetrically.

Specimen	Service type	Service	Integrity (minutes)			Insulation (minutes)
			Cotton Pad	Sustained Flaming	Gap Gauge	
G	25 mm thick layer of RockLap H&V Pipe Section insulation installed around the service in a local sustained configuration. 0 to 20 mm wide annular gap sealed with a 25 mm deep layer of FirePro® AIS Fire Resistant Sealant installed either side of a 50 mm thick layer of stone wool backer.	178 mm Ø aperture 108 mm Ø by 1.2 mm wall thickness copper pipe installed at the head of the aperture, C/U.	116	116	122#	83
P1	25 mm thick layer of RockLap H&V Pipe section insulation wrapped around the services in continuous sustained configuration. Remaining void in the aperture sealed with a 25 mm deep layer of FirePro® AIS Fire Resistant Sealant installed either side of a 50 mm thick layer of stone wool backer.	110 mm high by 276 mm wide partition aperture, 92 mm Ø seal aperture 3 No. 42 mm Ø by 1.2 mm wall thickness copper pipes a linear configuration, C/U.	122#	122#	122#	97
P2			122#	122#	122#	81
P3			119	119	122#	111

#Specimen extinguished.

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® AIS Fire Resistant Sealant 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**

4.3 Supporting substrate types

Substrate type	Minimum specification
Single 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 75 mm. The flexible wall construction comprise steel or timber studs lined on both faces with min 1 Layer of minimum 12,5 mm thick boards. For timber stud walls there must be a minimum distance of 100 mm of 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.
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 flexible wall construction comprise steel or timber studs lined on both faces with min 2 Layer of minimum 12,5 mm thick boards. For timber stud walls there must be a minimum distance of 100 mm of 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.
Rigid floors	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^3.

4.4 Product Installation

For wall applications the penetrations shall be sealed symmetrically either side of the wall (unless otherwise stated). Floor construction joints shall be sealed from the top side only (single seal).

The FirePro® AIS Fire Resistant Sealant shall be installed in line with the details given in the latest revision of Classification report 4791353094.1-02

Service support

Maximum distance from the top of the seal to the first service support shall be 400 mm unless specified otherwise within a specific detail for horizontally tested specimens.

Maximum distance from the seal to the first service support on each side shall be 400 mm unless specified otherwise within a specific detail for vertically tested specimens.

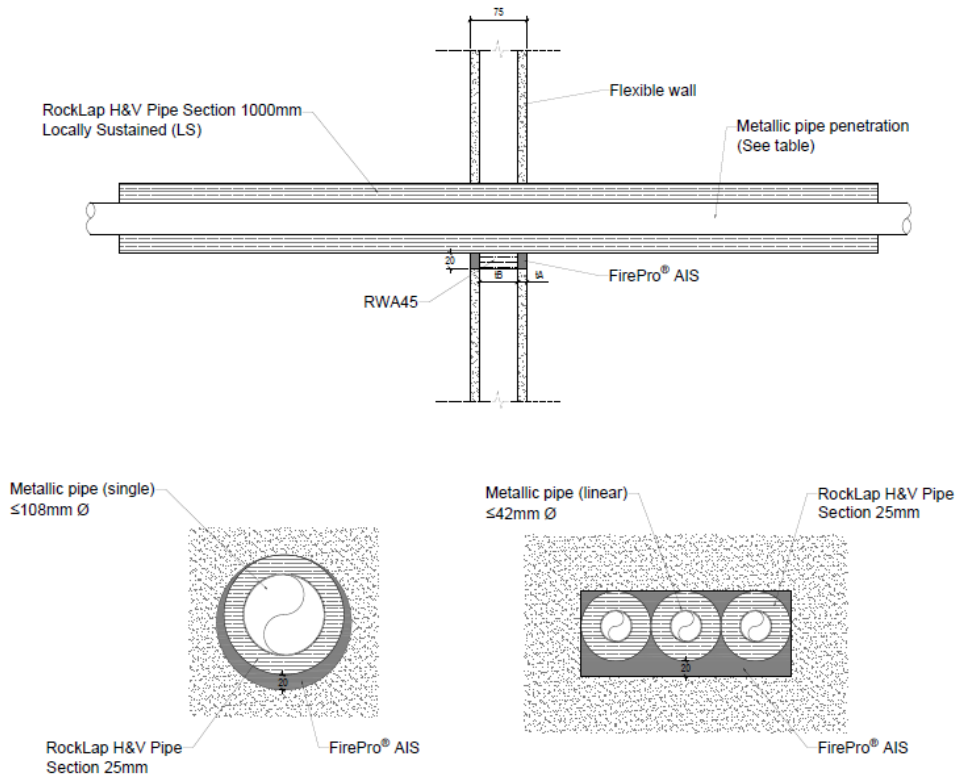
4.5 Classified performances

4.5.1 Flexible walls – Single skin ≥75 mm

4.5.1.1 Metallic Pipes

tA = AIS Depth

tB = Stone wool backing depth



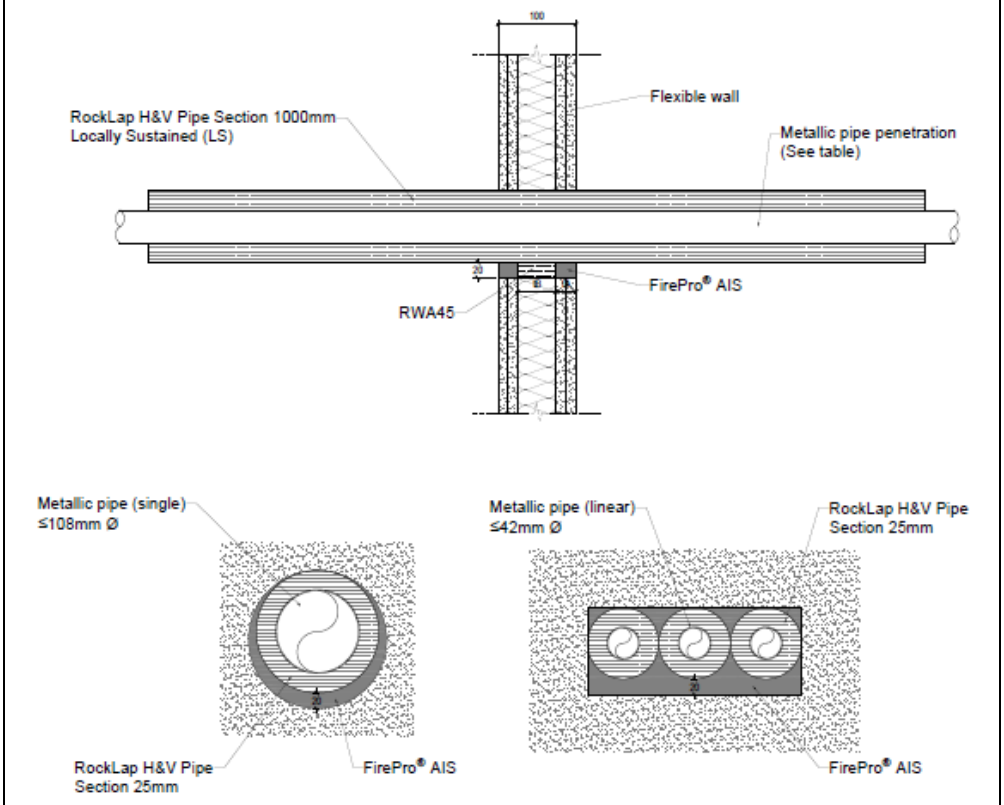
Service Type	Service Size (mm)	Wall thickness (mm)	Seal depth tA (mm)	Annular gap (mm)	Service protection	Classification
Copper pipes (single)	≤108 Ø	≥1.2	12.5	0-25 Max. seal size – 178mm Dia.	940 mm x 25 mm thick RockLap H&V Pipe Section in a LS configuration installed off centre of the seal.	**E 45 / EI 30 C/U**
Copper pipes Linear (0 mm)	≤42 Ø			0-20 Max. seal size – 280mm wide x 110 mm high	955 mm x 25mm thick RockLap H&V Pipe Section in a LS configuration installed off centre of the seal.	**E 30 / EI 15 C/U**

4.5.2 Flexible walls – Double skin ≥100 mm

4.5.2.1 Metallic Pipes

tA = AIS Depth

tB = Stone wool backing depth



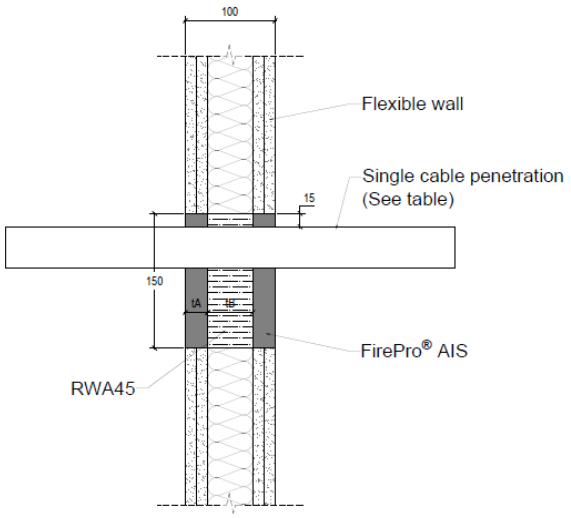
Service Type	Service Size (mm)	Wall thickness (mm)	Seal depth tA (mm)	Annular gap (mm)	Service protection	Classification
Copper pipes (single)	≤108 Ø	≥1.2	25	0-20 Max. seal size – 178mm Dia.	960 mm x 25 mm thick RockLap H&V Pipe Section in a LS configuration installed off centre of the seal.	**E 90 / EI 60 – C/U**
Copper pipes Linear (0 mm)	≤42 Ø			0-20 Max. seal size – 92mm Dia.	960 mm x 25 mm thick RockLap H&V Pipe Section in a LS configuration installed off centre of the seal.	**E 90 / EI 60 – C/U**

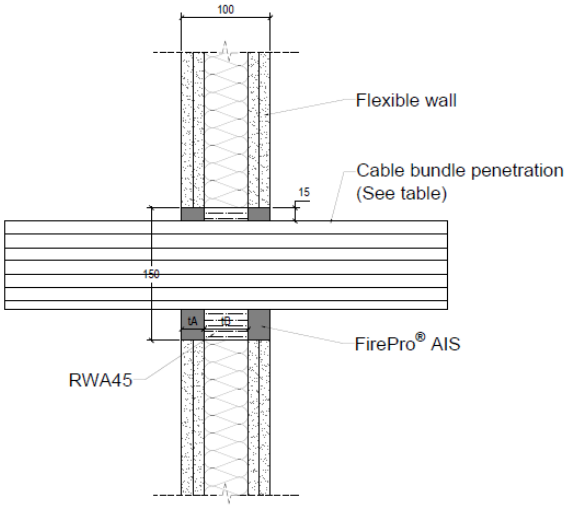
4.5.2.2 Cables

tA = AIS Depth

tB = Stone wool backing depth

Max. seal size – 150 x 150mm





Service Type		Service Size	AIS depth tA (mm)	Min annulus (mm)	Backing material (tB) (mm)	Classification
Blank		N/A	25	N/A	50 mm RWA45	**EI 120**
Sheathed Cables	S	≤21 mm		15		**E 120 / EI 60**
	M	≤50 mm				**E 120 / EI 60**
	L	≤80 mm				**E 90 / EI 60**
Cable bundles		≤Ø100 mm cable bundle ≤Ø21 mm				**E 120 / EI 60**
Unsheathed cables		≤24 mm				**E 120 / EI 30**

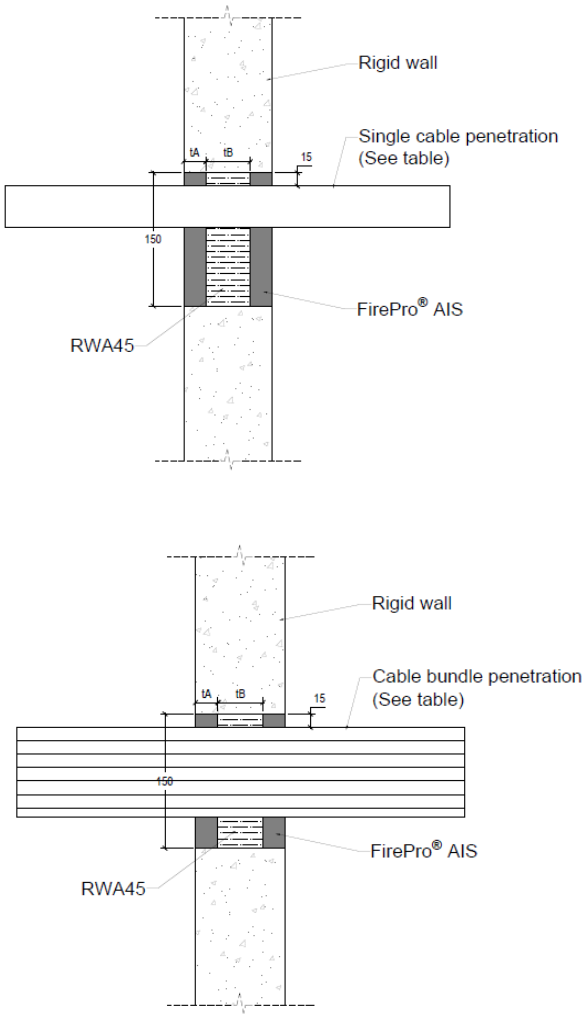
4.5.3 Rigid Walls ≥ 100 mm

4.5.3.1 Cables

tA = AIS Depth

tB = Stone wool backing depth

Max. seal size 150x 150mm



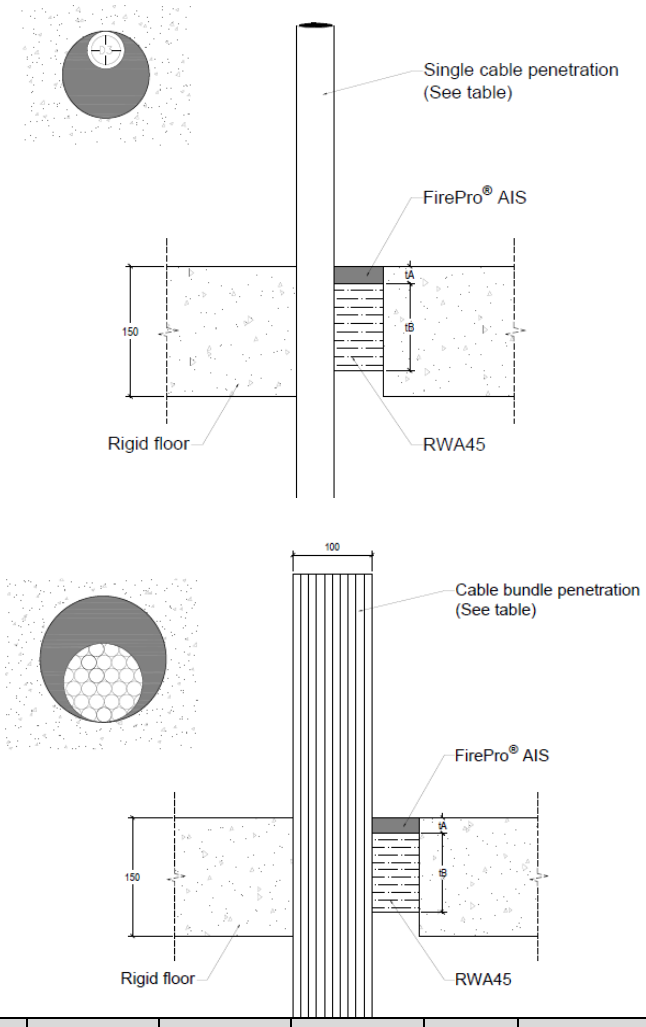
Service Type		Service Size	AIS depth tA (mm)	Min annulus (mm)	Backing material (tB)	Classification
Blank		N/A	25	N/A	50 mm RWA45	**EI 120**
Sheathed Cables	S	≤21 mm		15		**E 120 / EI 60**
	M	≤50 mm				**E 120 / EI 60**
	L	≤80 mm				**E 120 / EI 60**
Cable bundles		≤Ø100 mm cable bundle ≤Ø21 mm				**E 120 / EI 45**
Unsheathed cables		≤24 mm				**E 120 / EI 45**

4.5.4 Rigid Floors ≥ 150 mm

4.5.4.1 Cables

tA = AIS Depth

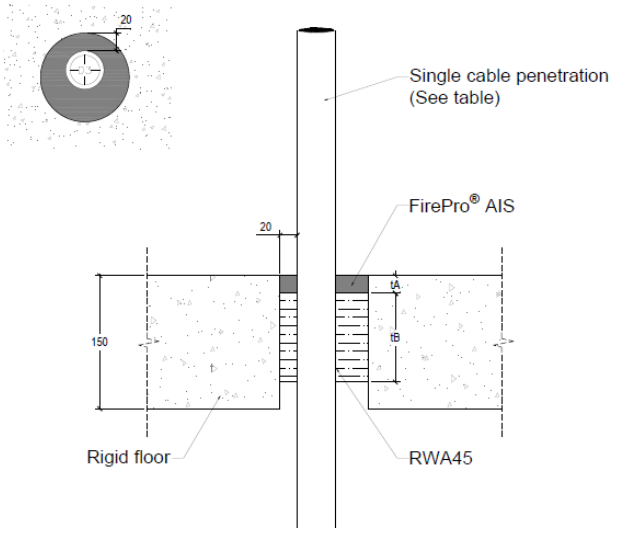
tB = Stone wool backing depth

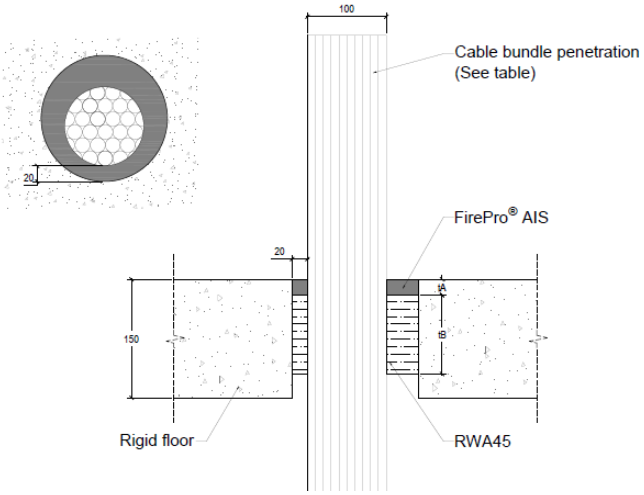


Service Type		Service Size	AIS depth tA (mm)	Backing material (tB)	Min annulus (mm)	Max. seal size (mm)	Additional protection tC (mm)	Classification
Blank		N/A	25	100mm RWA45	N/A	200 x 200	N/A	**EI 180**
Sheathed Cables	S	≤21 mm			0	100 Ø		**E 180 / EI 60**
	M	≤50 mm						**E 180 / EI 60**
	L	≤80 mm						**E 120 / EI 60**
Cable bundles		≤Ø100 mm cable bundle ≤Ø21 mm				160 Ø		**E 120 / EI 60**
Unsheathed cables		≤24 mm				100 Ø		**E 180 / EI 60**

tA = AIS Depth

tB = Stone wool backing depth



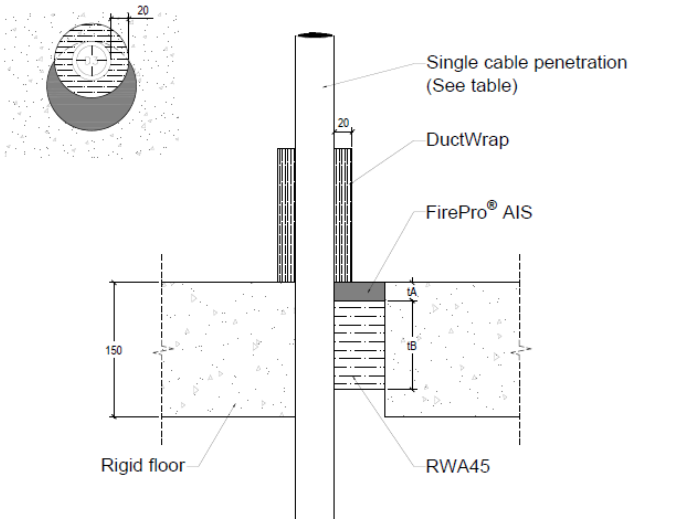


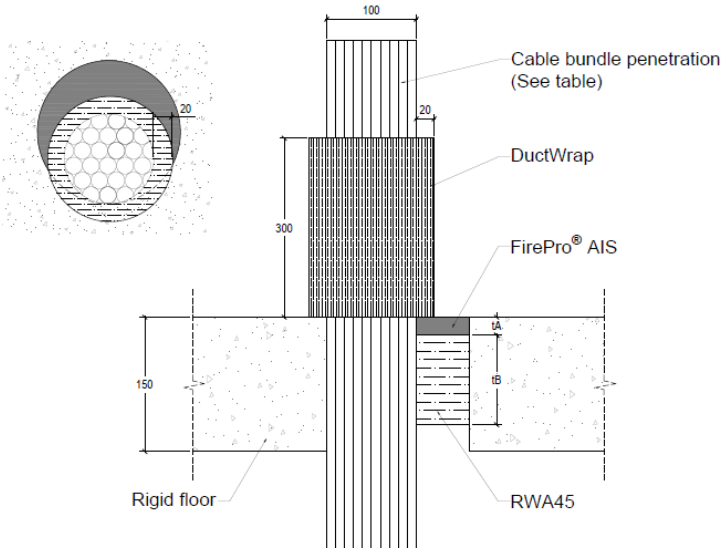
Service Type		Service Size	AIS depth tA (mm)	Backing material (tB)	Min annulus (mm)	Max. seal size (mm)	Additional protection tC (mm)	Classification
Blank		N/A	25	100mm RWA45	N/A	200 x 200	N/A	**EI 180**
Sheathed Cables	S	≤21 mm			20	100 Ø		**EI 180**
	M	≤50 mm						**E 180 / EI 90**
	L	≤80 mm						**E 180 / EI 60**
Cable bundles		≤Ø100 mm cable bundle ≤Ø21 mm				160 Ø		**E120 / EI 90**
Unsheathed cables		≤24 mm				100 Ø		**E180 / EI 90**

tA = AIS Depth

tB = Stone wool backing depth

tC = 20 mm ROCKWOOL Duct wrap





Service Type		Service Size	AIS depth tA (mm)	Max. seal size (mm)	Min annulus (mm)	Backing material (tB)	Additional protection tC (mm)	Classification
Sheathed Cables	S	≤21 mm	25	100 Ø	0	100 mm RWA45	20mm thick and nominal300mm (295mm measured) long	**EI 180**
	M	≤50 mm						**EI 180**
	L	≤80 mm						**EI 120**
Cable bundles		≤Ø100 mm cable bundle ≤Ø21 mm		160 Ø				**EI 180**
Unsheathed cables		≤24 mm		100 Ø				**EI 180**

4.6 Field of application – Penetration Seals

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:

Andres Jesus Mena Gallego
Associate Project Engineer
Built Environment

Reviewed by:

Chris Sweeney
Senior Project Engineer
Built Environment

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