

SikaSeal[®]-623 Fire

DECLARATION OF PERFORMANCE

No. 48273094

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	48273094
2	INTENDED USE/S	ETA 18/1049/ EAD 350454-00-1104:2017 Fire stopping and fire sealing products, penetration seals
3	MANUFACTURER:	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	AUTHORISED REPRESENTATIVE:	
5	SYSTEM/S OF AVCP:	System 1
6b	EUROPEAN ASSESSMENT DOCUMENT:	EAD 350454-00-1104, Edition 2017 Fire Stopping and Fire Sealing Products, Penetration Seals
	European Technical Assessment:	ETA 18/1049 of 23/01/2019
	Technical Assessment Body:	Warrington Fire Testing and Certification Limited
	Notified body/ies:	1121, 2812

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7 DECLARED PERFORMANCE/S

The assessment of fitness for use has been made in accordance with EAD 350454-00-1104

Product Type: Sealant		Intended use: Penetration Seal
Basic requirement for construction work	Basic Requirement	Performance
BWR 1 Mechanical resistance and stability		
	None	Not relevant
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	No performance determined
EN 13501-2	Resistance to fire	Annex A
BWR 3 Hygiene, Health and the Environment		
EN 1026:2000	Air permeability	See section 3.3
EAD 350454-00-1104	Water permeability	No performance determined
Declaration by manufacturer	Release of dangerous substances	Use category IA3, 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 noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	BS EN 10142-2: Rw (C;Ctr)=52(-1,-6)
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 fitness for use		
EOTA TR 024:2009	Durability and serviceability	Z1
BWR 7 Sustainable use of natural resources		
		No performance determined

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3.3 Air permeability

System SikaSeal® - 623 Fire has been tested in accordance with BS EN 1314-1 to provide the following results:

Product tested			SikaSeal® - 623 Fire	
	Results under positive chamber pressure		Results under negative chamber pressure	
Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m ³ /h)	Leakage (m ³ /h)	Leakage (m ³ /m ³ /h)
50	0,2	5,6	0,3	8,3
100	0,4	11,1	0,6	16,7
150	0,7	19,4	0,9	25,0
200	1,0	27,8	1,2	33,3
250	1,1	30,6	1,6	44,4
300	1,2	33,3	1,9	52,8
450	2,2	61,1	2,7	75,0
600	2,4	66,7	3,4	94,4

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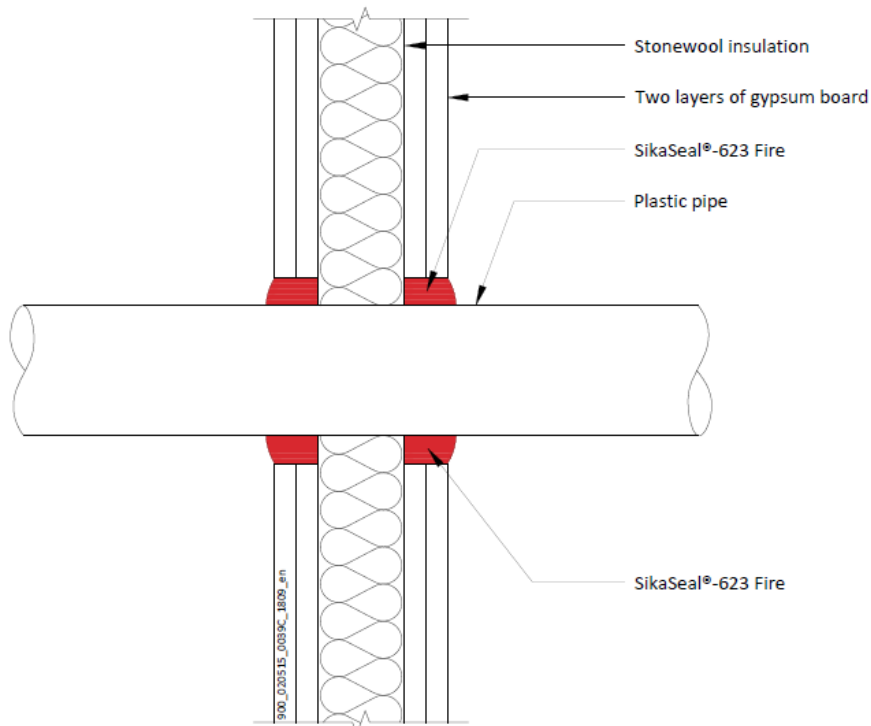
Annex A Resistance to Fire Classification of SikaSeal® - 623 Fire

A.1.1 Flexible and Rigid wall constructions according to 1.2 with wall thickness of minimum 120 mm

A.1.1.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 150mm from both faces of the substrate



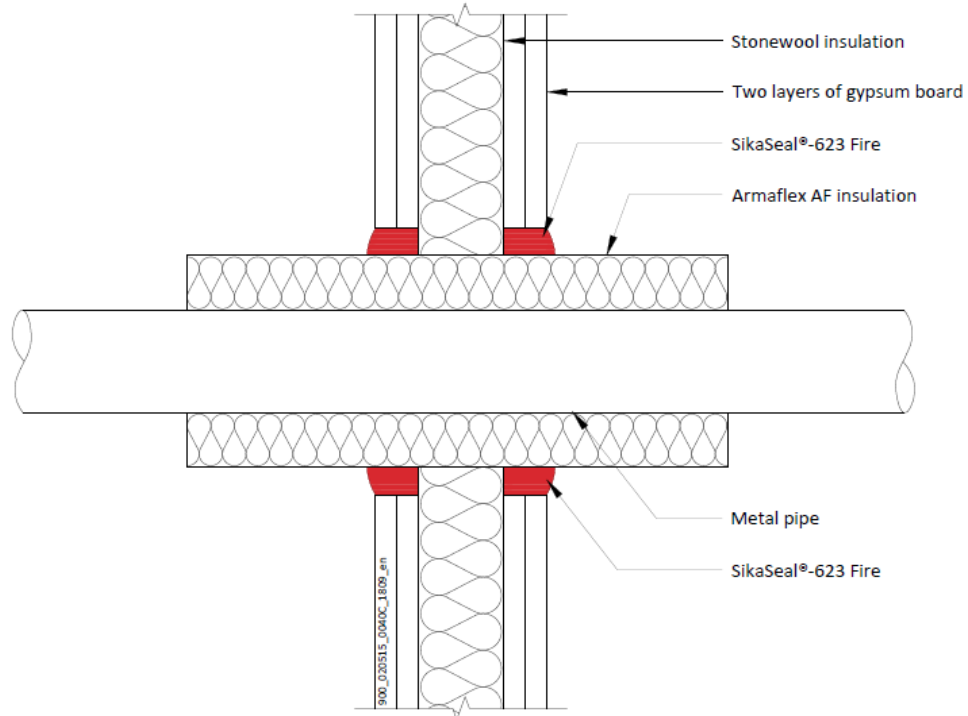
Penetration Specification	SikaSeal®-623 Fire (installed both faces)	Backing Material	Classification
PVC Pipe 40mm ø 1.9-3mm wall thickness	10mm annulus x 25mm deep	N/A	EI120 U/C
PVC Pipe 125mm ø 4.8-7.4mm wall thickness	16mm annulus x 25mm deep	30mm deep, 80Kg/m ³	EI120 U/C
HDPE Pipe 63mm ø 7.2mm wall thickness, Cables up to 21mm ø	300mm wide x 100mm high x 25mm deep	N/A	EI120 U/C
HDPE Pipe 90mm ø 9.2mm wall thickness	12.5mm annulus x 25mm deep	N/A	EI120 U/C
ABS Pipe 90mm ø 6mm wall thickness	12.5mm annulus x 25mm deep	N/A	EI120 U/C

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A.1.2.1 Penetration seal with SikaSeal®-623 Fire – Insulated Metallic Pipes

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 150mm from both faces of the substrate



Penetration Specification	SikaSeal® -623 Fire (installed both faces)	Backing Material	Classification
Copper/Steel Pipe 60mm ϕ 0.8mm -14.2mm wall thickness, insulated with 32mm 'Armaflex AF' (CS) Continued Sustained	20mm annulus x 25mm deep	N/A	E120 U/C EI90 U/C
Copper/Steel Pipe 15mm ϕ 0.8mm -7mm wall thickness, insulated with 13mm 'Armaflex AF' (CS) Continued Sustained	15mm annulus x 25mm deep	N/A	E120 U/C

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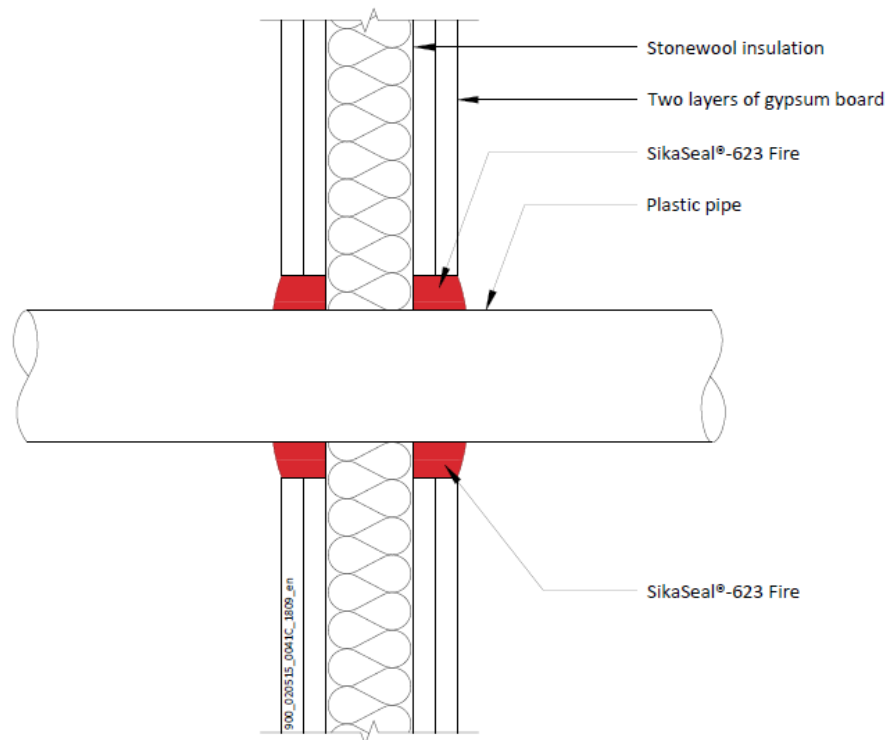
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A.2.1 Flexible and Rigid wall constructions according to 1.2 with wall thickness of minimum 100 mm

A.2.1.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 270mm from both faces of the substrate



Penetration Specification	SikaSeal®-623 Fire(installed both faces)	Backing Material	Classification
PVC Pipe 40mm ø 1.9mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U
PVC Pipe 125mm ø 9.2mm wall thickness	20mm annulus x 25mm deep	N/A	EI60 C/U
ABS Pipe 40mm ø 1.9mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U
HDPP Pipe 40mmø 2mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U

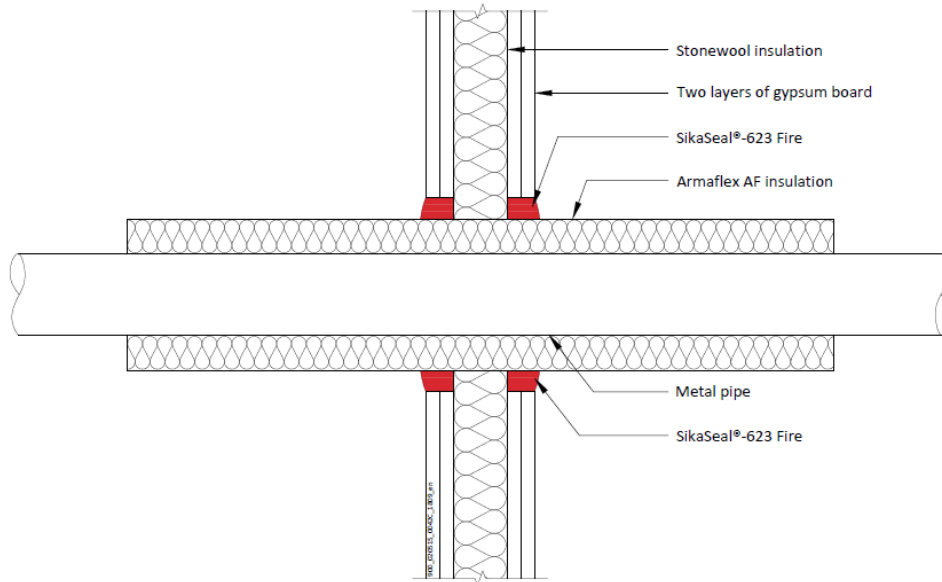
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A.2.2.1 Penetration seal with SikaSeal®-623 Fire – Insulated Metallic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal® -623 Fire(installed both faces)	Backing Material	Classification
Copper/Steel Pipe 40mm ø 1.5mm – 14.2mm wall thickness insulated with 32mm 'Armaflex AF' (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U
Copper/Steel Pipe 40mm - 159mm ø 2.0 mm – 14.2mm wall thickness insulated with 32mm 'Armaflex AF' (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U
Copper/Steel Pipe 159mm ø 2.0 mm – 14.2mm wall thickness insulated with 30mm x 80kg/m³ 'Pipelane' SGR glass wool tube (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U

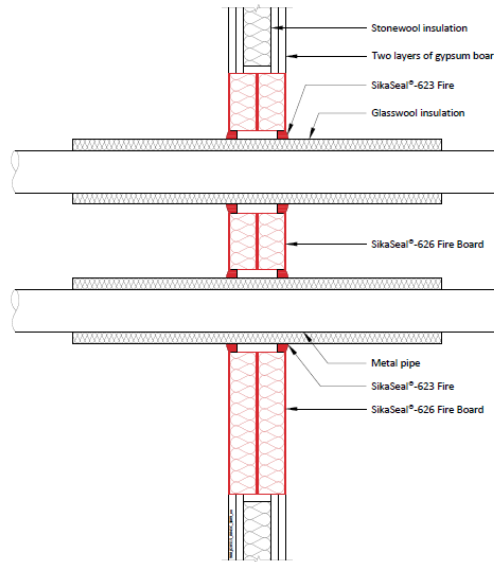
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A.2.3.1 Penetration seal with SikaSeal®-623 Fire – Insulated Metallic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal® -623 Fire	SikaSeal® -626 Fire Board	Classification
Copper/Steel Pipe 40mm ϕ 1.5mm - 14.2mm wall thickness, insulated with 20mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained	15mm annulus, 15mm deep both faces of the SikaSeal®-626 Fire Board, incorporating a 15mm fillet projecting from the face of the seal	Double layer of 50mm SikaSeal®-626 Fire Board max 600mm high x 600mm wide	EI60 C/U
Copper/Steel Pipe 159mm ϕ 2.3mm - 14.2mm wall thickness, insulated with 30mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained			E90 C/U EI60 C/U
Steel Pipe 40mm ϕ 1.7mm -14.2mm wall thickness, insulated with 20mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained			E90 C/U EI60 C/U
Steel Pipe 150mm ϕ 2.3mm -14.2mm wall thickness, insulated with 30mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained			EI60 C/U

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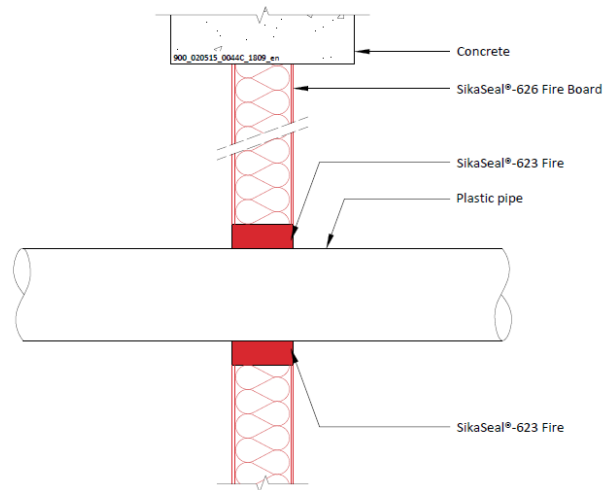
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A.3.1 Rigid wall constructions according to 1.2 with wall thickness of minimum 150 mm incorporating SikaSeal®-626 Fire Board

A.3.1.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes

Construction details:

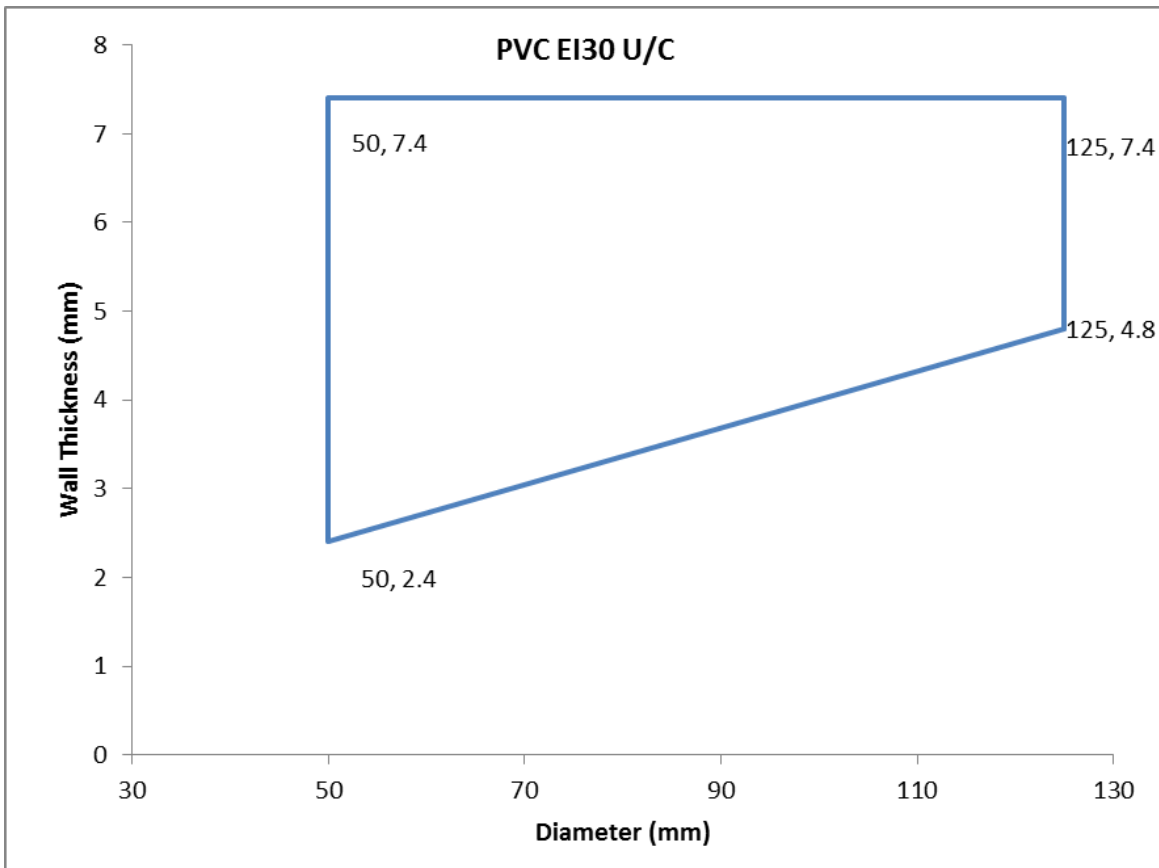
- SikaSeal®-623 Fire applied into the annular space to the required depth as per table
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
PVC Pipe 50mm ø 2.4-7.4mm wall thickness	20mm annulus full 50mm depth of the SikaSeal®-626 Fire Board	Single layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI45 U/C
Pipe Diameters as below			See below

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Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	20mm annulus full 50mm depth of the SikaSeal®-626 Fire Board	Single layer of 50mm SikaSeal®- 626 Fire Board max 1100mm high x 750mm wide	E45 U/C EI30 U/C
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

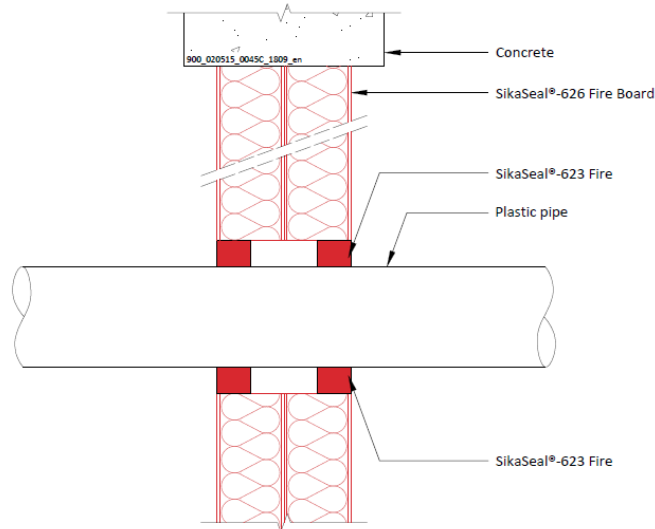
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Construction details:

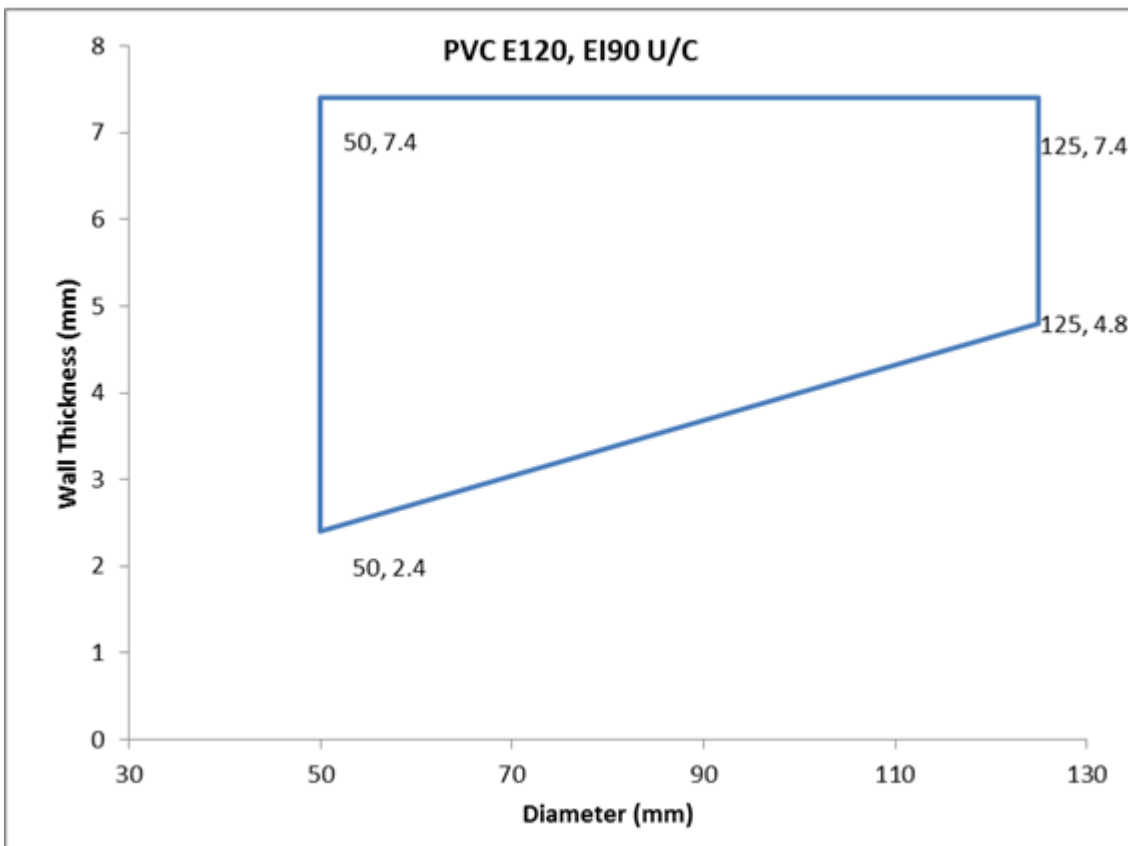
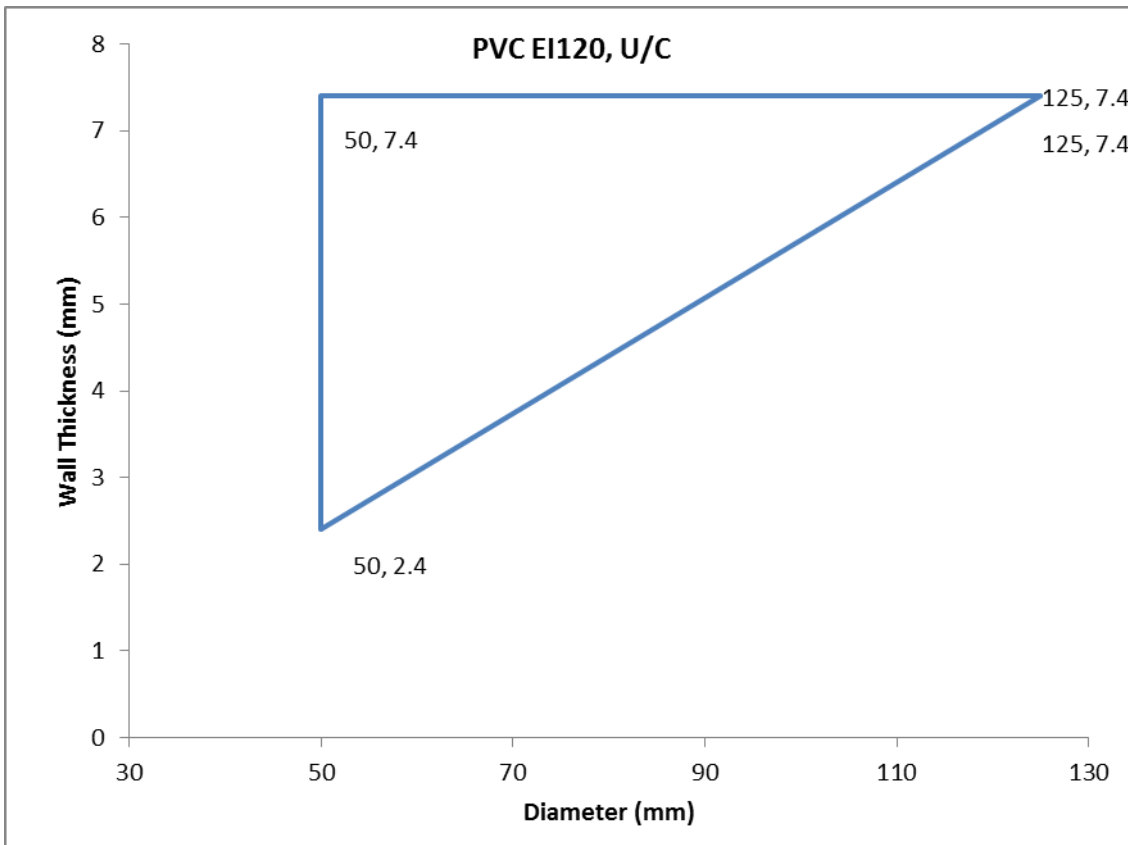
- SikaSeal®-623 Fire applied into the annular space to the required depth as per table
- SikaSeal®-626 Fire Board 2 x 50mm thick
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal® -623 Fire	SikaSeal® -626 Fire Board	Classification
Pipe Diameters as below	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal® -626 Fire Board max 1100mm high x 750mm wide	See below

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Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI120 U/C
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

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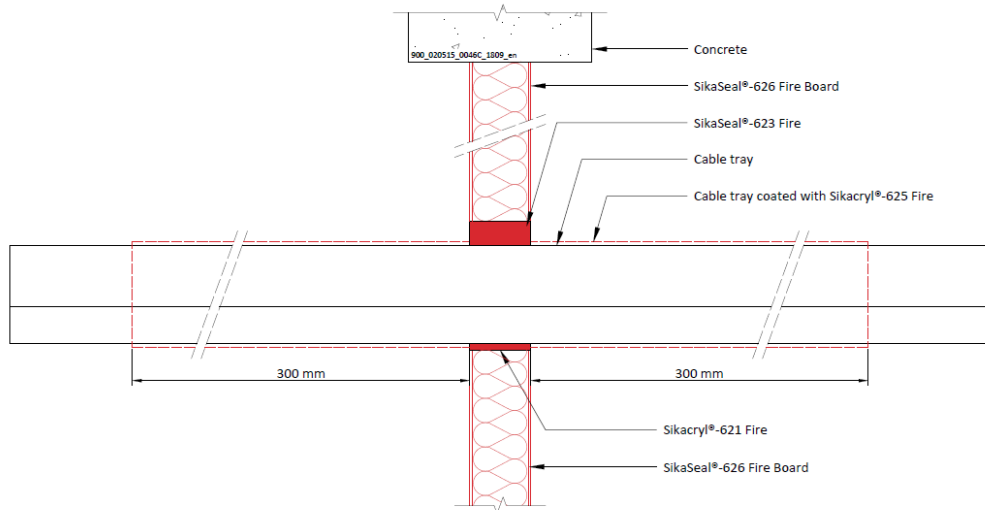
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A.3.2.1 Penetration seal with SikaSeal®-623 Fire – Electrical Cables

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
*500mm perforated cable tray	20mm gap full 50mm depth of the SikaSeal®-626 Fire Board	Single layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI30
*Electrical cables up to 21mm ø			EI45
*1 off 'C1' Cable			
*1 off 'C2' Cable			
*1 off 'C3' Cable			

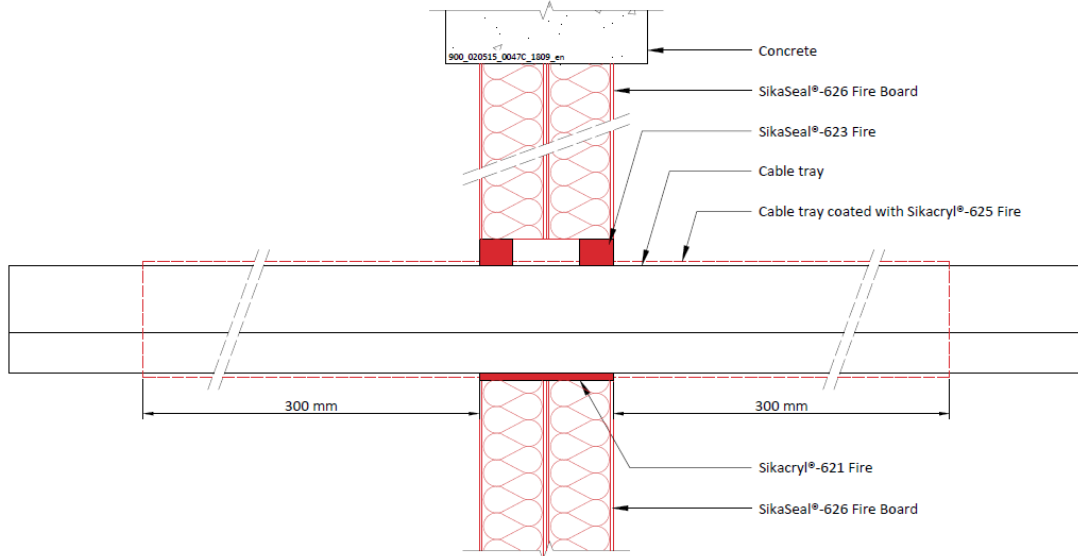
*All cables coated with 2mm DFT Sikacryl®-625 Fire 300mm along the cables both sides of the seal

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Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
*500mm perforated cable tray	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI120
*Electrical cables up to 21mm ø			
*1 off 'C1' Cable			
*1 off 'C2' Cable			E120 EI90
*1 off 'C3' Cable			EI120

*All cables coated with 2mm DFT Sikacryl®-625 Fire 300mm along the cables both sides of the seal

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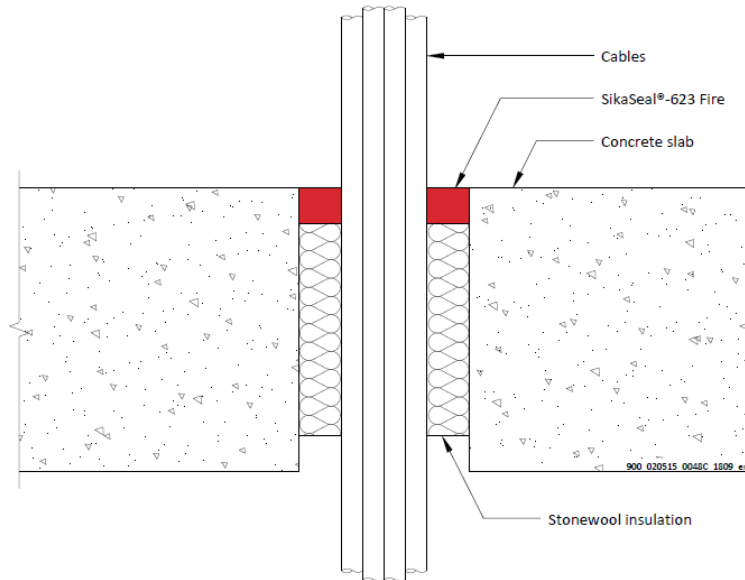
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A.4.1 Rigid floor constructions according to 1.2 with floor thickness of minimum 150 mm

A4.1.1 Penetration seal with SikaSeal®-623 Fire – Electrical cables

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 250mm from the upper face of the substrate



Penetration Specification	SikaSeal®-623 Fire (installed upper face only)	Aperture Size (mm)	Backing Material	Classification
Electrical Cables 0-21mm Ø	25mm deep	Max 200 x 200 Min 50 x 50	100mm Deep stone wool 45 kg/m ³	E180 EI20
Electrical Cables 22-80mm Ø				E120 EI20
Non sheathed electrical cables 0-24mm Ø				E180 EI15
Up to 21mm Ø telecomm cables in bundles of up to 100 mm diameter				E180 EI20

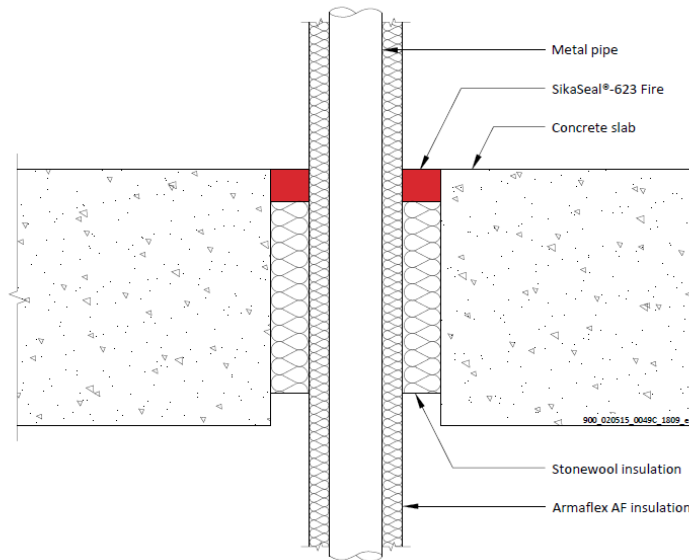
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A.4.2.1 Penetration seal with SikaSeal®-623 Fire – Insulated Metallic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 250mm from the upper face of the substrate



Penetration Specification	SikaSeal®-623 Fire (installed upper face only)	Aperture Size (mm)	Backing Material	Classification
Copper/Steel Pipe 41mm – 159mm ø 2.5mm - 14.2mm wall thickness, insulated with 16mm - 32mm 'Armaflex' (CS) Continued Sustained	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI20 U/C
Copper/Steel Pipe 41mm 1.4 – 14.2mm wall thickness, insulated with 16mm 'Armaflex' (CS) Continued Sustained				E240 U/C EI60 U/C

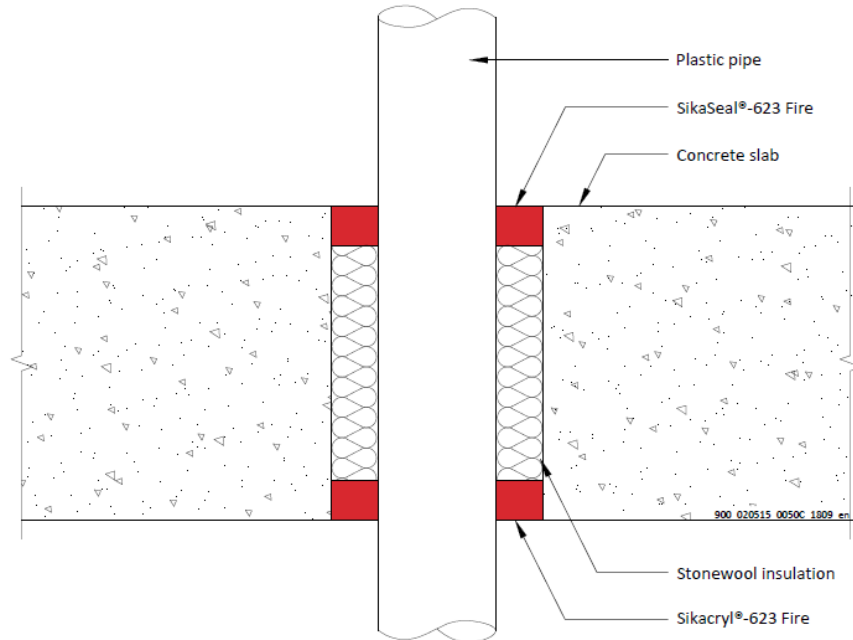
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C.4.3.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes

Construction details:

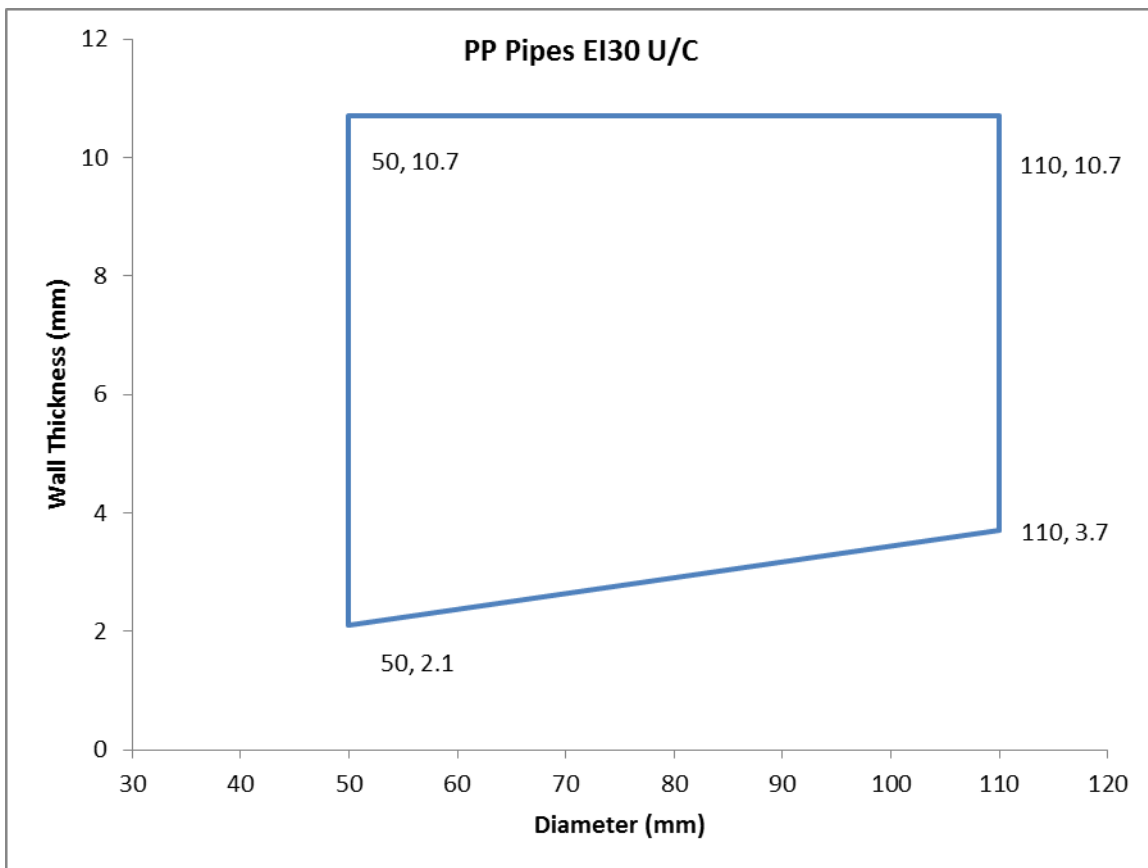
- SikaSeal®-623 Fire applied into the annular space to the required depth as per the table page 28
- First support positioned 250mm from the upper face of the substrate



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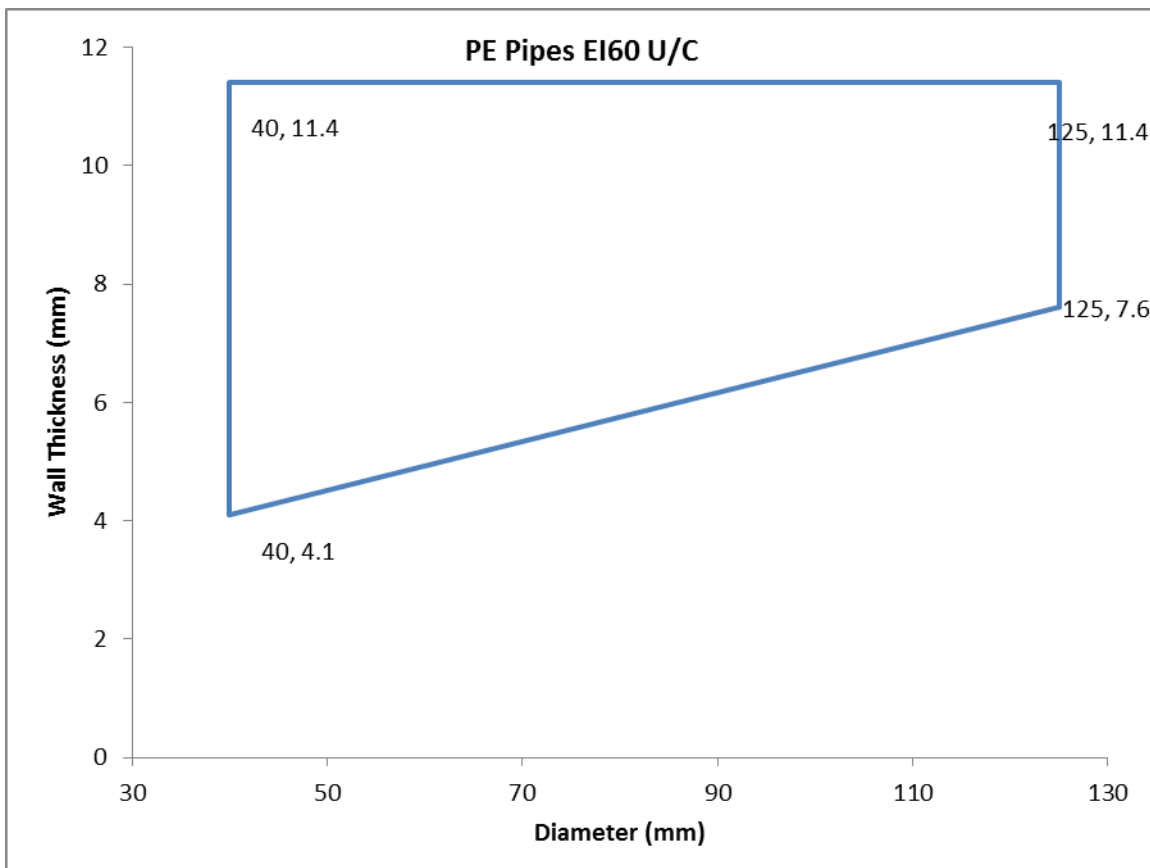
Penetration Specification	SikaSeal®-623 Fire (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PP Pipe 110mm ϕ 3.7mm wall thickness	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI30 U/C
PP Pipe 110mm ϕ 10.7mm wall thickness				EI120 U/C
PP Pipe 50mm ϕ 2.1mm wall thickness				EI240 U/C



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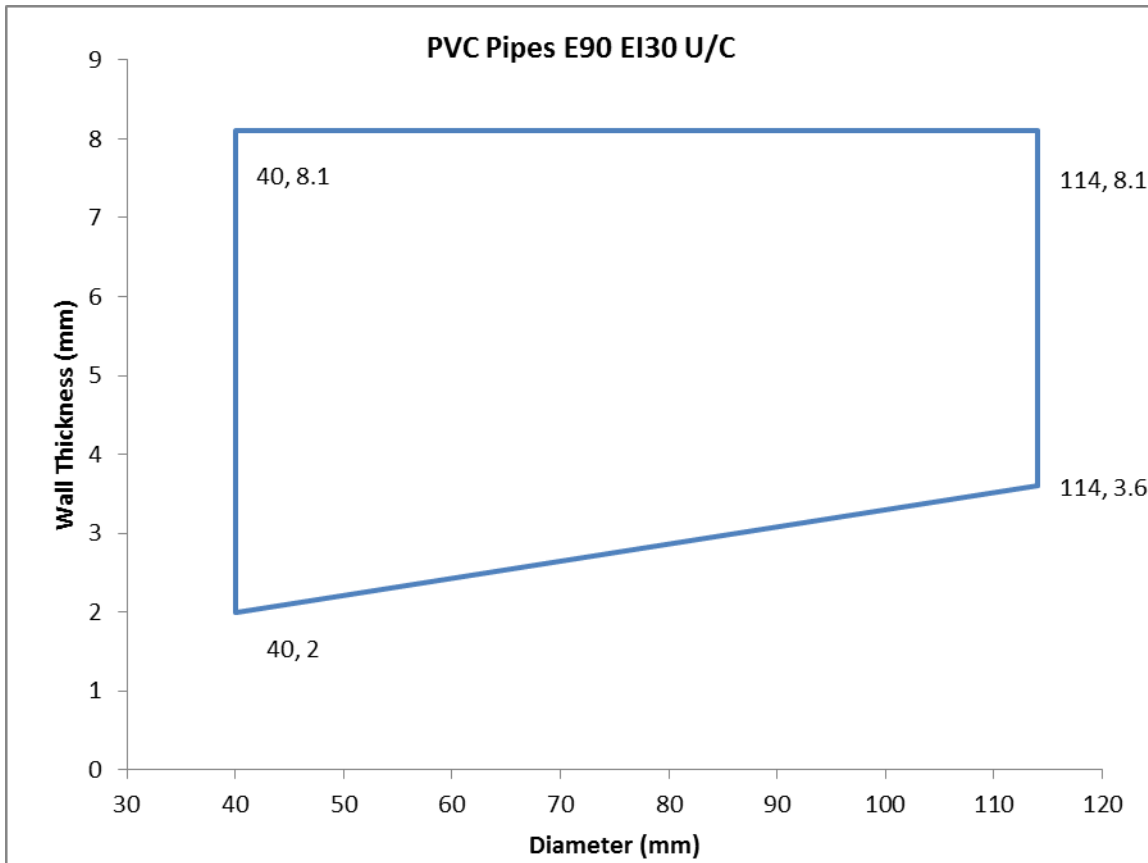
Penetration Specification	SikaSeal®-623 Fire (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PE Pipe 40mm ϕ 4.1mm wall thickness	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI240 U/C
PE Pipe 125mm ϕ 7.6 mm wall thickness				EI60 U/C
PE Pipe 125mm ϕ 11.4 mm wall thickness				EI90 U/C



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Penetration Specification	SikaSeal®-623 Fire (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PVC Pipe 40mm ø 2mm wall thickness	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI240 U/C
PVC Pipe 114mm ø 3.6 mm wall thickness				E90 U/C EI45 U/C
PVC Pipe 114mm ø 8.1 mm wall thickness				EI120 U/C



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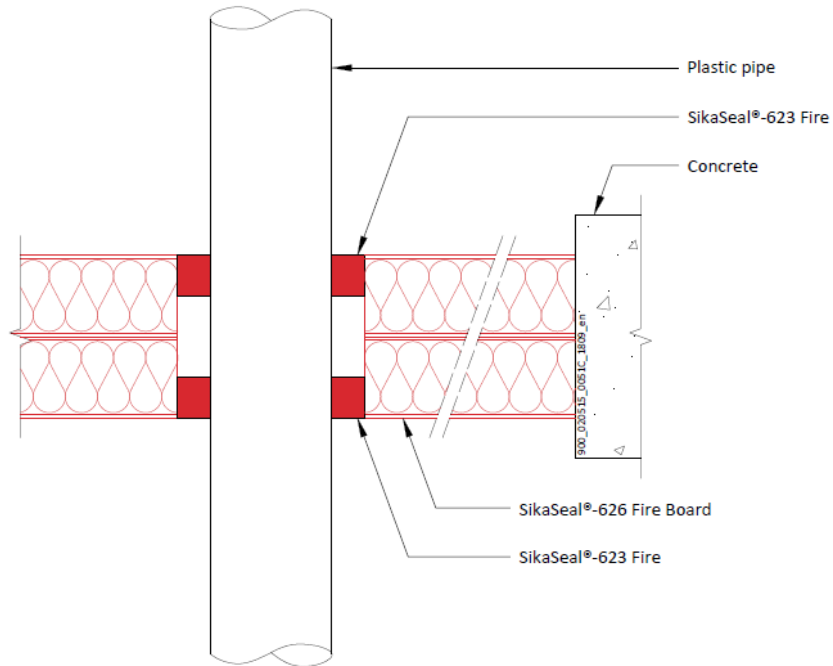
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A.5.1 Rigid floor constructions according to 1.2 with wall thickness of minimum 150 mm incorporating SikaSeal®-626 Fire Board

A.5.1.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes

Construction details:

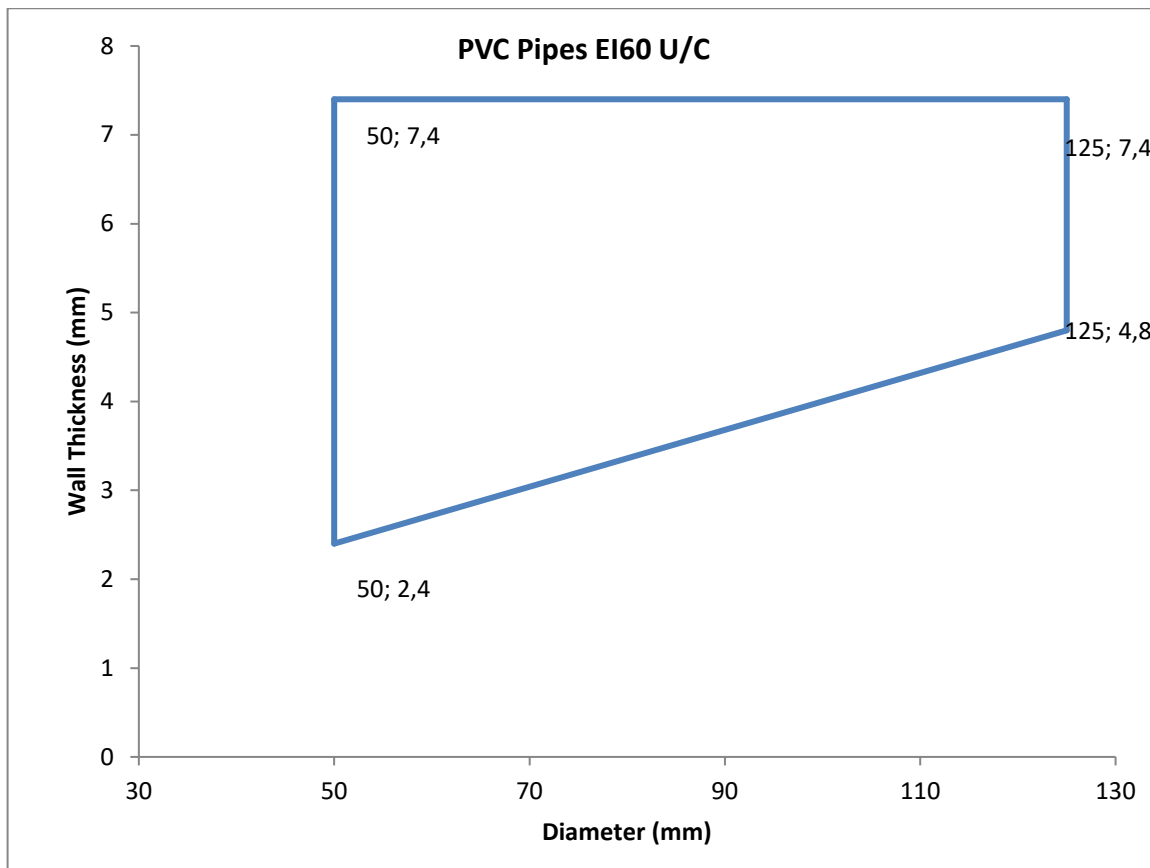
- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 400mm from the upper face of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
Pipe Diameters as below	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	See below

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Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI60 U/C
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

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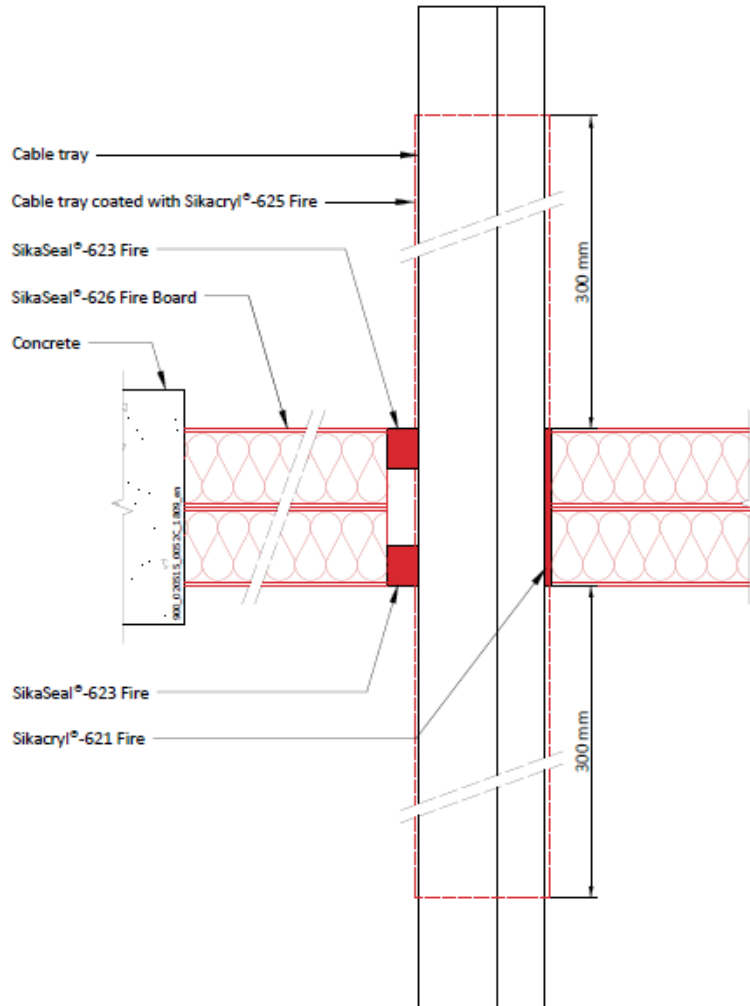
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A.5.2.1 Penetration seal with SikaSeal®-623 Fire – Electrical Cables

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 400mm from the upper face of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
*500mm perforated cable tray	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI60
*Electrical cables up to 21mm ø			
*1 off 'C1' Cable			
*1 off 'C2' Cable			
*1 off 'C3' Cable			

*All cables coated with 2mm DFT Sikacryl®-625 Fire 300mm along the cables upper side of the seal

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**8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR -
SPECIFIC TECHNICAL DOCUMENTATION**

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

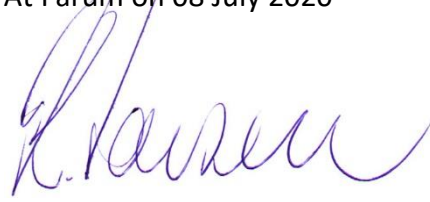
Signed for and on behalf of the manufacturer by:

Name : Anders Beier
Function: General Manager
At Farum on 08 July 2020



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Name : Kristian Larsen
Function: Head Sealing and Bonding
At Farum on 08 July 2020




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End of information as required by Regulation (EU) No 305/2011

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FULL CE MARKING

 19
Sika Services AG, Zurich, Switzerland
48273094
EAD 350454-00-1104:2017
1121, 2812
Fire stopping and fire sealing products, penetration seals

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The assessment of fitness for use has been made in accordance with EAD 350454-00-1104

Product Type: Sealant		Intended use: Penetration Seal
Basic requirement for construction work	Basic Requirement	Performance
BWR 1 Mechanical resistance and stability		
	None	Not relevant
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	No performance determined
EN 13501-2	Resistance to fire	Annex A
BWR 3 Hygiene, Health and the Environment		
EN 1026:2000	Air permeability	See section 3.3
EAD 350454-00-1104	Water permeability	No performance determined
Declaration by manufacturer	Release of dangerous substances	Use category IA3, 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 noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	BS EN 10142-2: Rw (C;Ctr)=52(-1,-6)
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 fitness for use		
EOTA TR 024:2009	Durability and serviceability	Z1
BWR 7 Sustainable use of natural resources		
		No performance determined

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3.3 Air permeability

System SikaSeal® - 623 Fire has been tested in accordance with BS EN 1314-1 to provide the following results:

Product tested			SikaSeal® - 623 Fire	
Pressure (Pa)	Results under positive chamber pressure		Results under negative chamber pressure	
	Leakage (m ³ /h)	Leakage (m ³ /m ³ /h)	Leakage (m ³ /h)	Leakage (m ³ /m ³ /h)
50	0,2	5,6	0,3	8,3
100	0,4	11,1	0,6	16,7
150	0,7	19,4	0,9	25,0
200	1,0	27,8	1,2	33,3
250	1,1	30,6	1,6	44,4
300	1,2	33,3	1,9	52,8
450	2,2	61,1	2,7	75,0
600	2,4	66,7	3,4	94,4

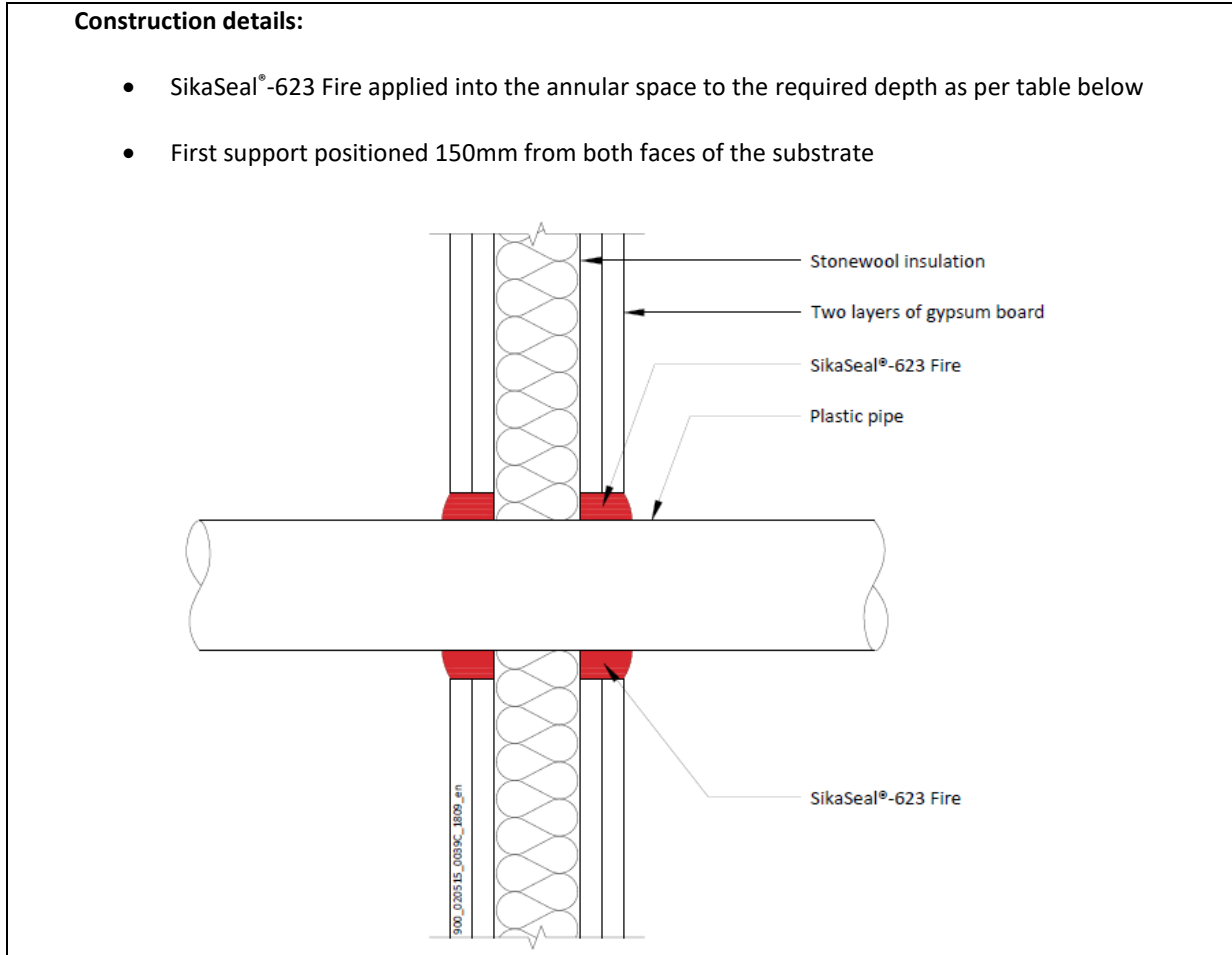
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Annex A Resistance to Fire Classification of SikaSeal® - 623 Fire

A.1.1 Flexible and Rigid wall constructions according to 1.2 with wall thickness of minimum 120 mm

A.1.1.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes



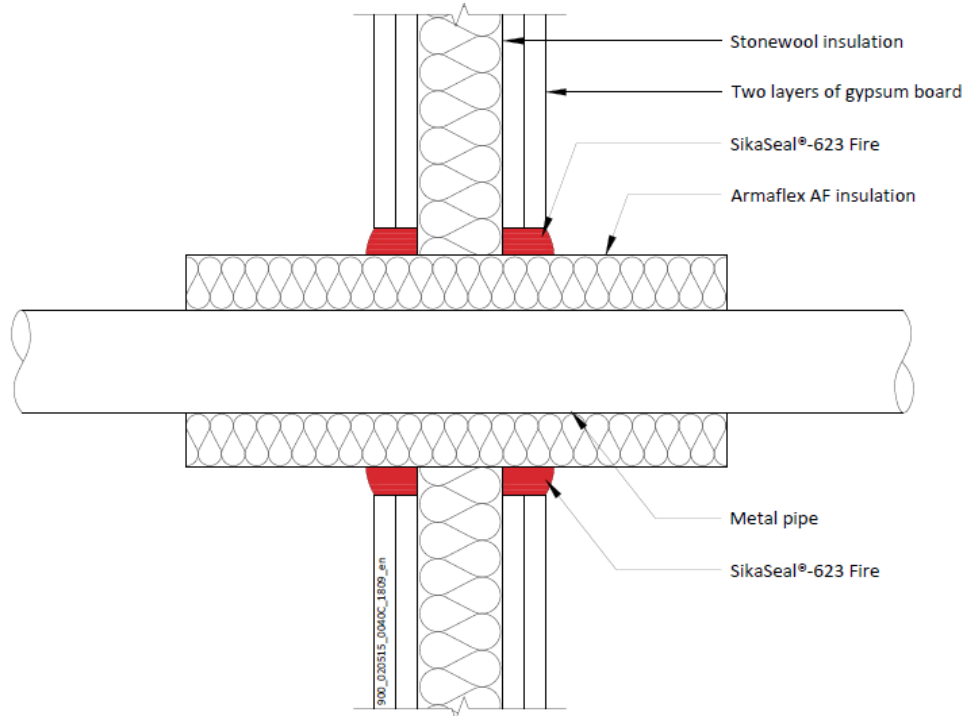
Penetration Specification	SikaSeal®-623 Fire(installed both faces)	Backing Material	Classification
PVC Pipe 40mm ø 1.9-3mm wall thickness	10mm annulus x 25mm deep	N/A	EI120 U/C
PVC Pipe 125mm ø 4.8-7.4mm wall thickness	16mm annulus x 25mm deep	30mm deep, 80Kg/m ³	EI120 U/C
HDPE Pipe 63mm ø 7.2mm wall thickness, Cables up to 21mm ø	300mm wide x 100mm high x 25mm deep	N/A	EI120 U/C
HDPE Pipe 90mm ø 9.2mm wall thickness	12.5mm annulus x 25mm deep	N/A	EI120 U/C
ABS Pipe 90mm ø 6mm wall thickness	12.5mm annulus x 25mm deep	N/A	EI120 U/C

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A.1.2.1 Penetration seal with SikaSeal®-623 Fire – Insulated Metallic Pipes

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 150mm from both faces of the substrate



Penetration Specification	SikaSeal® -623 Fire(installed both faces)	Backing Material	Classification
Copper/Steel Pipe 60mm ø 0.8mm -14.2mm wall thickness, insulated with 32mm 'Armaflex AF' (CS) Continued Sustained	20mm annulus x 25mm deep	N/A	E120 U/C EI90 U/C
Copper/Steel Pipe 15mm ø 0.8mm -7mm wall thickness, insulated with 13mm 'Armaflex AF' (CS) Continued Sustained	15mm annulus x 25mm deep	N/A	E120 U/C

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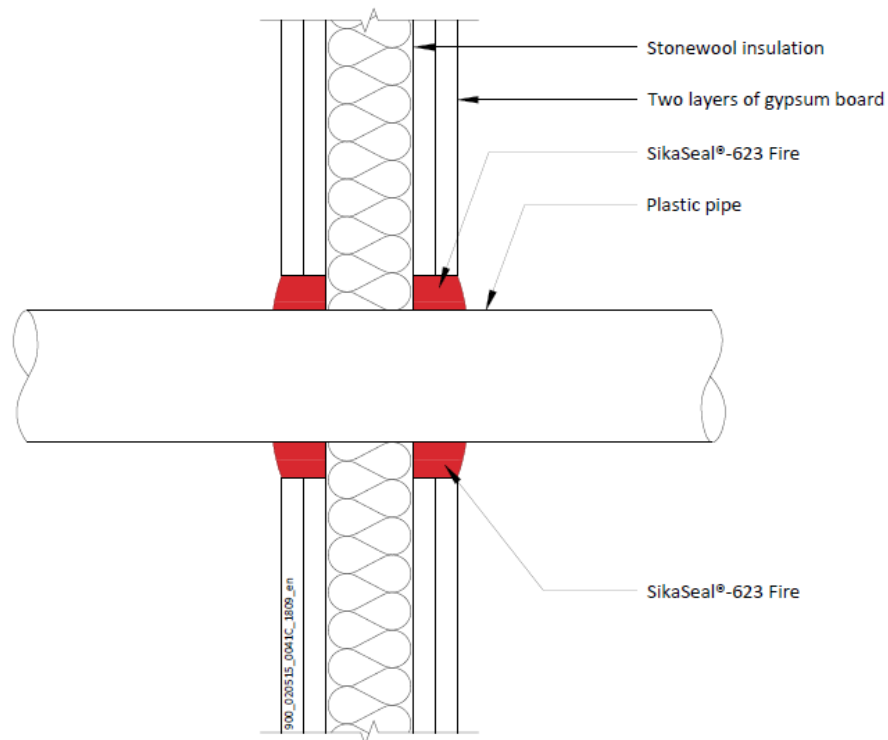
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A.2.1 Flexible and Rigid wall constructions according to 1.2 with wall thickness of minimum 100 mm

A.2.1.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 270mm from both faces of the substrate



Penetration Specification	SikaSeal®-623 Fire(installed both faces)	Backing Material	Classification
PVC Pipe 40mm ø 1.9mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U
PVC Pipe 125mm ø 9.2mm wall thickness	20mm annulus x 25mm deep	N/A	EI60 C/U
ABS Pipe 40mm ø 1.9mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U
HDPP Pipe 40mmø 2mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U

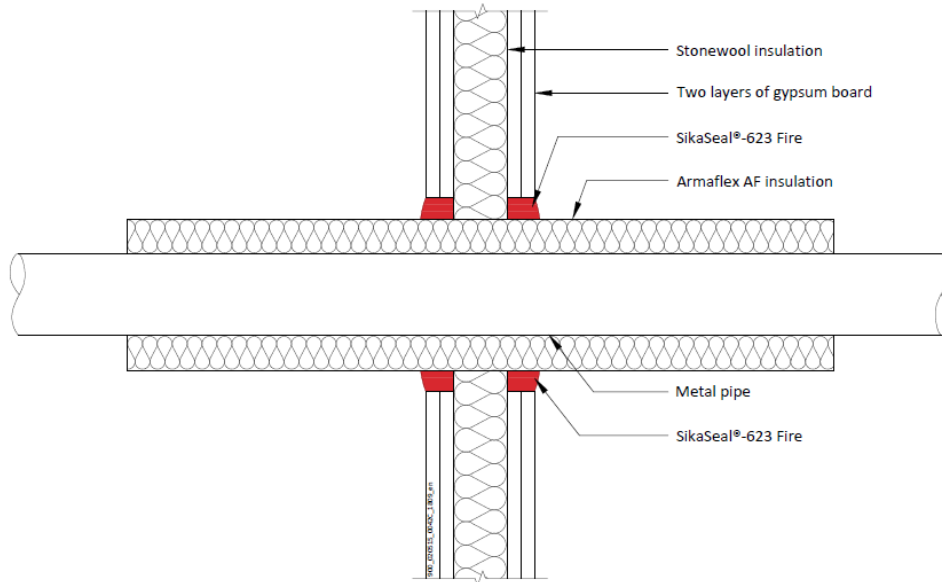
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A.2.2.1 Penetration seal with SikaSeal®-623 Fire – Insulated Metallic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal® -623 Fire(installed both faces)	Backing Material	Classification
Copper/Steel Pipe 40mm ø 1.5mm – 14.2mm wall thickness insulated with 32mm 'Armaflex AF' (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U
Copper/Steel Pipe 40mm - 159mm ø 2.0 mm – 14.2mm wall thickness insulated with 32mm 'Armaflex AF' (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U
Copper/Steel Pipe 159mm ø 2.0 mm – 14.2mm wall thickness insulated with 30mm x 80kg/m³ 'Pipelane' SGR glass wool tube (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U

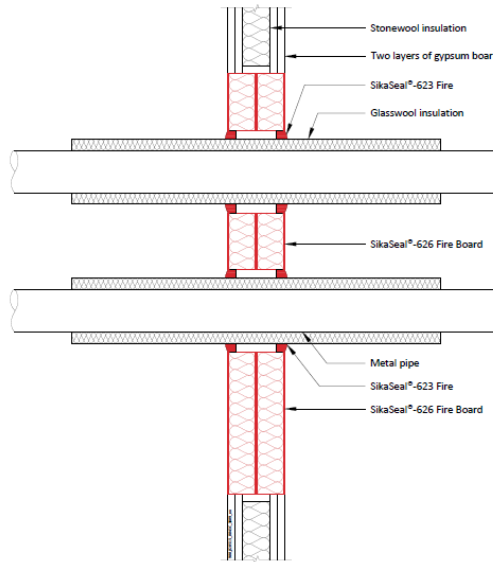
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A.2.3.1 Penetration seal with SikaSeal®-623 Fire – Insulated Metallic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 400mm from both faces of the substrate



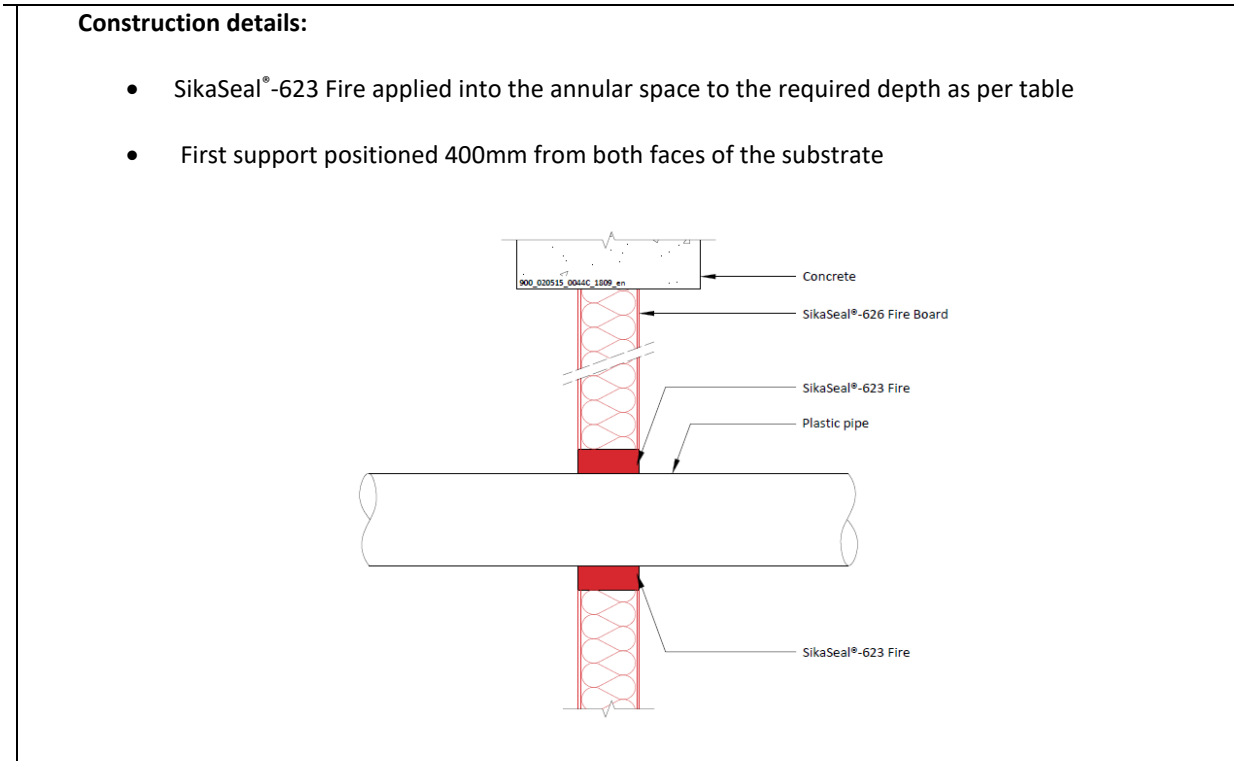
Penetration Specification	SikaSeal® -623 Fire	SikaSeal® -626 Fire Board	Classification
Copper/Steel Pipe 40mm ϕ 1.5mm - 14.2mm wall thickness, insulated with 20mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained	15mm annulus, 15mm deep both faces of the SikaSeal®-626 Fire Board, incorporating a 15mm fillet projecting from the face of the seal	Double layer of 50mm SikaSeal®-626 Fire Board max 600mm high x 600mm wide	E160 C/U
Copper/Steel Pipe 159mm ϕ 2.3mm - 14.2mm wall thickness, insulated with 30mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained			E90 C/U E160 C/U
Steel Pipe 40mm ϕ 1.7mm -14.2mm wall thickness, insulated with 20mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained			E90 C/U E160 C/U
Steel Pipe 150mm ϕ 2.3mm -14.2mm wall thickness, insulated with 30mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained			E160 C/U

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A.3.1 Rigid wall constructions according to 1.2 with wall thickness of minimum 150 mm incorporating SikaSeal® -626 Fire Board

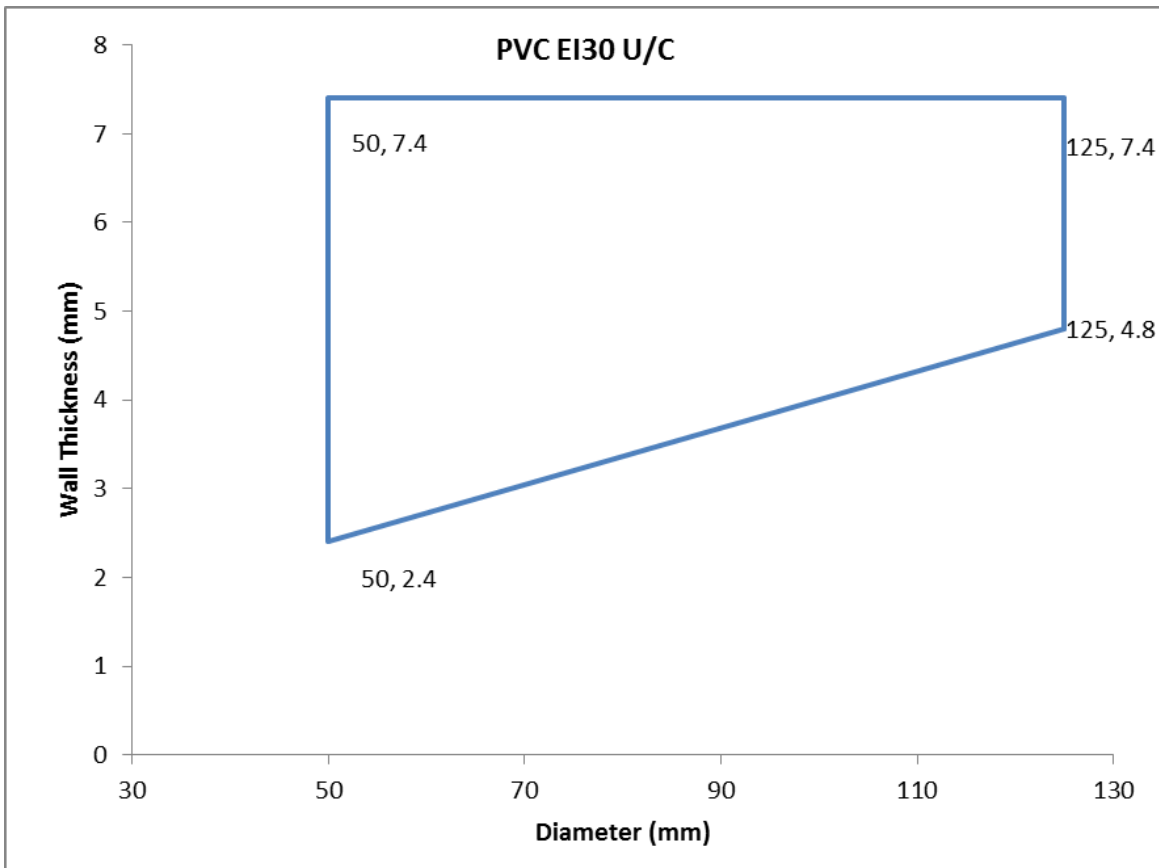
A.3.1.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
PVC Pipe 50mm ø 2.4-7.4mm wall thickness	20mm annulus full 50mm depth of the SikaSeal®-626 Fire Board	Single layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI45 U/C
Pipe Diameters as below			See below

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Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	20mm annulus full 50mm depth of the SikaSeal®-626 Fire Board	Single layer of 50mm SikaSeal®- 626 Fire Board max 1100mm high x 750mm wide	E45 U/C EI30 U/C
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

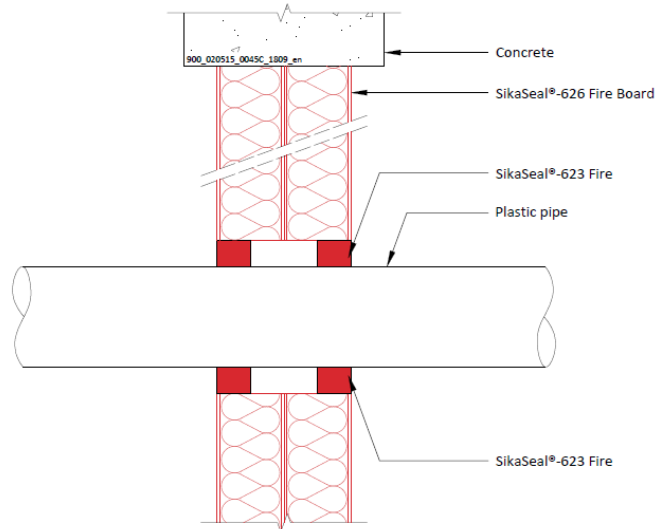
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Construction details:

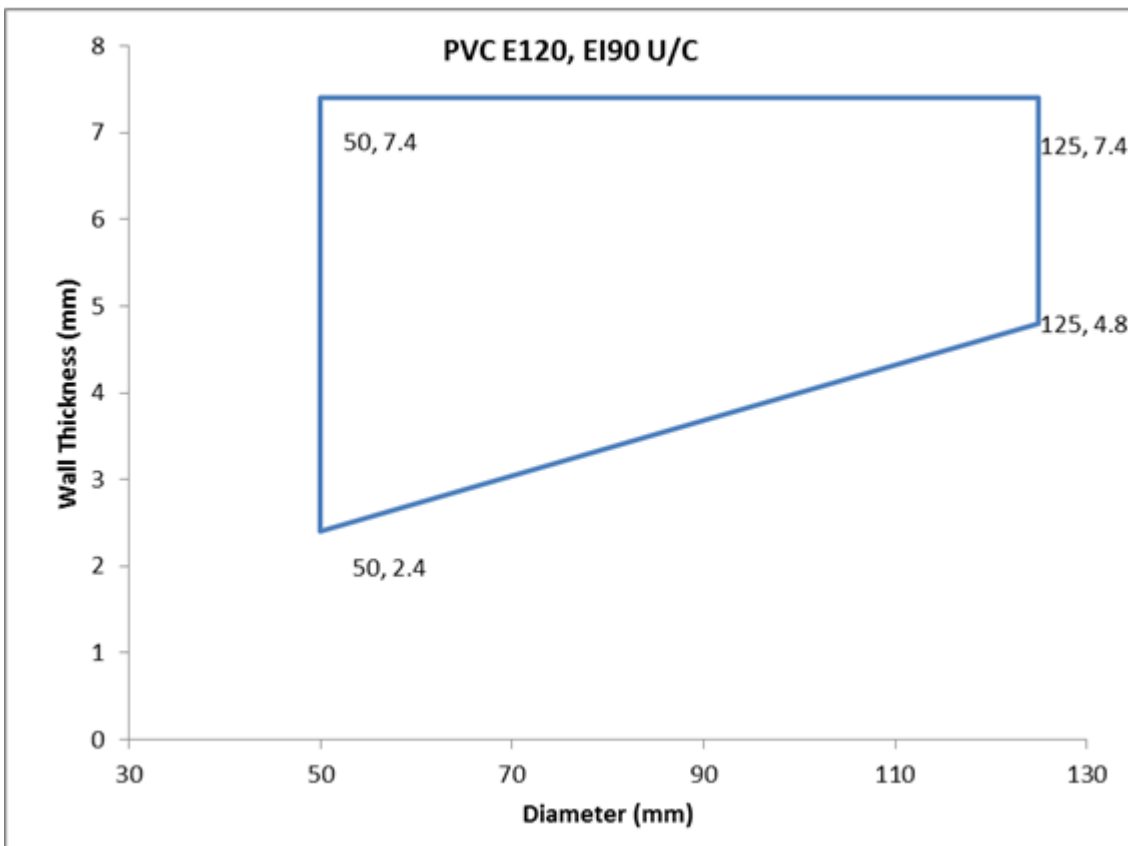
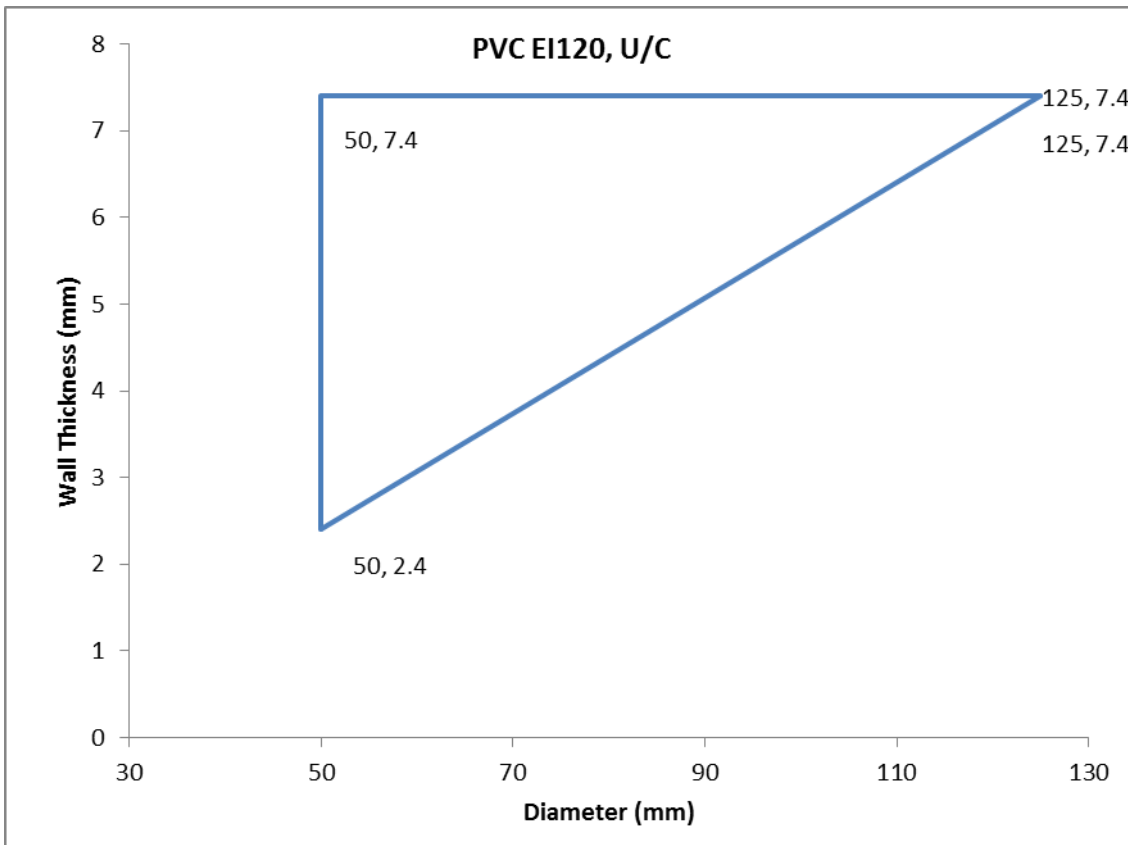
- SikaSeal®-623 Fire applied into the annular space to the required depth as per table
- SikaSeal®-626 Fire Board 2 x 50mm thick
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal® -623 Fire	SikaSeal® -626 Fire Board	Classification
Pipe Diameters as below	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal® -626 Fire Board max 1100mm high x 750mm wide	See below

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Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI120 U/C
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

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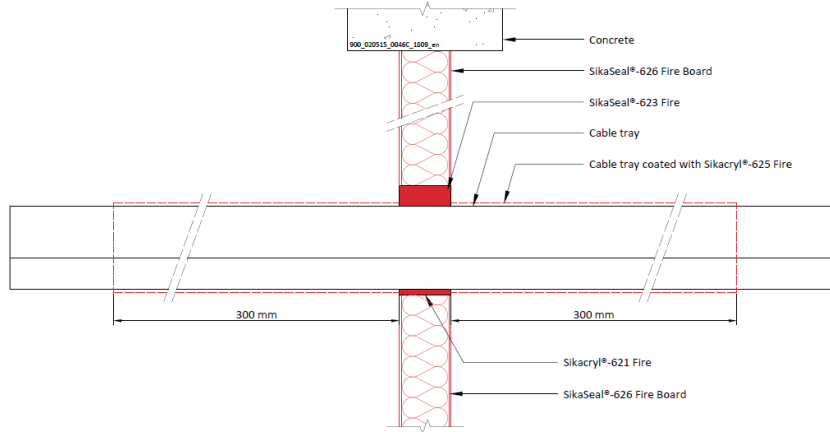
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A.3.2.1 Penetration seal with SikaSeal®-623 Fire – Electrical Cables

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
*500mm perforated cable tray	20mm gap full 50mm depth of the SikaSeal®-626 Fire Board	Single layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI30
*Electrical cables up to 21mm ø			EI45
*1 off 'C1' Cable			
*1 off 'C2' Cable			
*1 off 'C3' Cable			

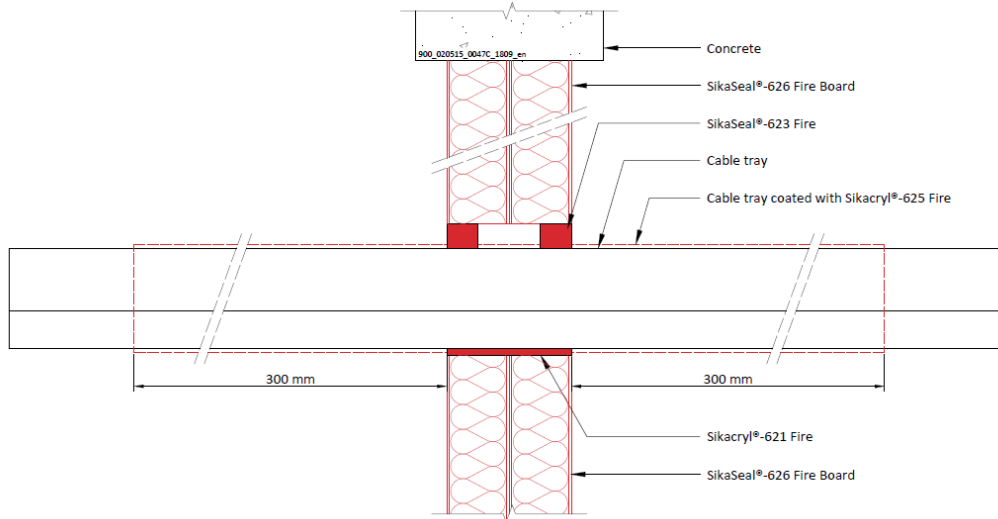
*All cables coated with 2mm DFT Sikacryl®-625 Fire 300mm along the cables both sides of the seal

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Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table
- First support positioned 400mm from both faces of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
*500mm perforated cable tray	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI120
*Electrical cables up to 21mm ø			
*1 off 'C1' Cable			
*1 off 'C2' Cable			E120 EI90
*1 off 'C3' Cable			EI120

*All cables coated with 2mm DFT Sikacryl®-625 Fire 300mm along the cables both sides of the seal

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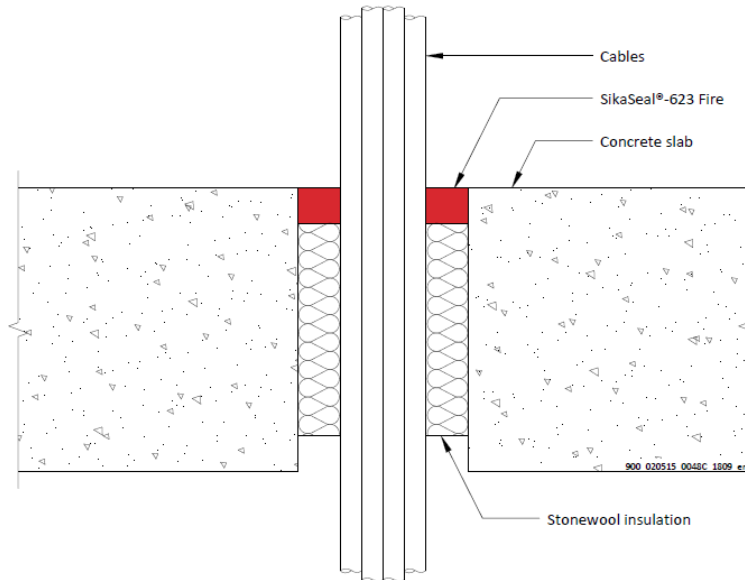
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A.4.1 Rigid floor constructions according to 1.2 with floor thickness of minimum 150 mm

A4.1.1 Penetration seal with SikaSeal®-623 Fire – Electrical cables

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 250mm from the upper face of the substrate



Penetration Specification	SikaSeal®-623 Fire (installed upper face only)	Aperture Size (mm)	Backing Material	Classification
Electrical Cables 0-21mm Ø	25mm deep	Max 200 x 200 Min 50 x 50	100mm Deep stone wool 45 kg/m ³	E180
Electrical Cables 22-80mm Ø				EI20
Non sheathed electrical cables 0-24mm Ø				E180
Up to 21mm Ø telecomm cables in bundles of up to 100 mm diameter				EI15
				E180
				EI20

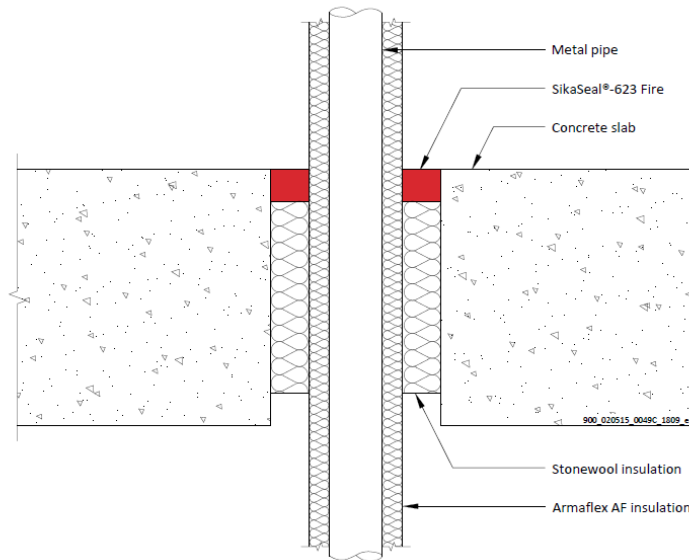
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A.4.2.1 Penetration seal with SikaSeal®-623 Fire – Insulated Metallic Pipes

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 250mm from the upper face of the substrate



Penetration Specification	SikaSeal®-623 Fire (installed upper face only)	Aperture Size (mm)	Backing Material	Classification
Copper/Steel Pipe 41mm – 159mm ø 2.5mm - 14.2mm wall thickness, insulated with 16mm - 32mm 'Armaflex' (CS) Continued Sustained	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI20 U/C
Copper/Steel Pipe 41mm 1.4 – 14.2mm wall thickness, insulated with 16mm 'Armaflex' (CS) Continued Sustained				E240 U/C EI60 U/C

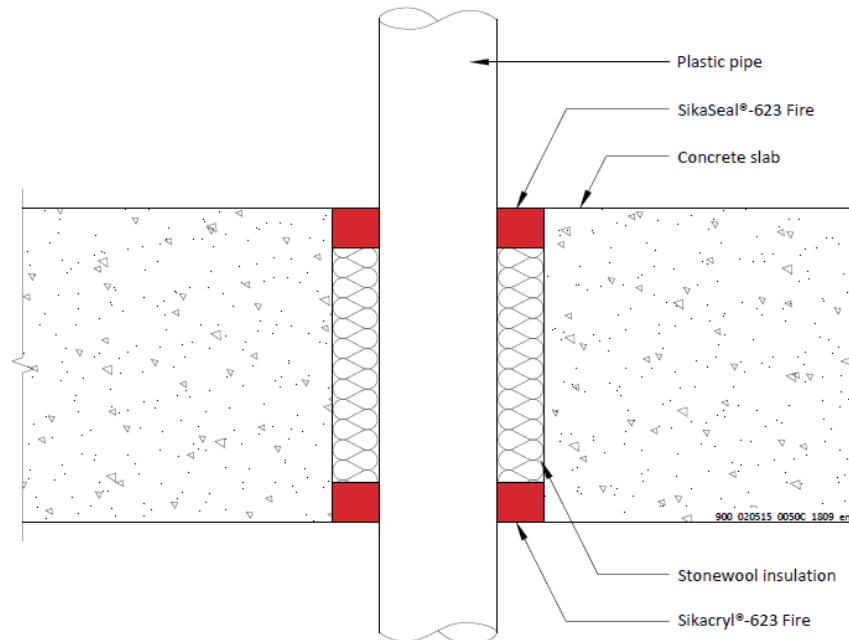
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A.4.3.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes

Construction details:

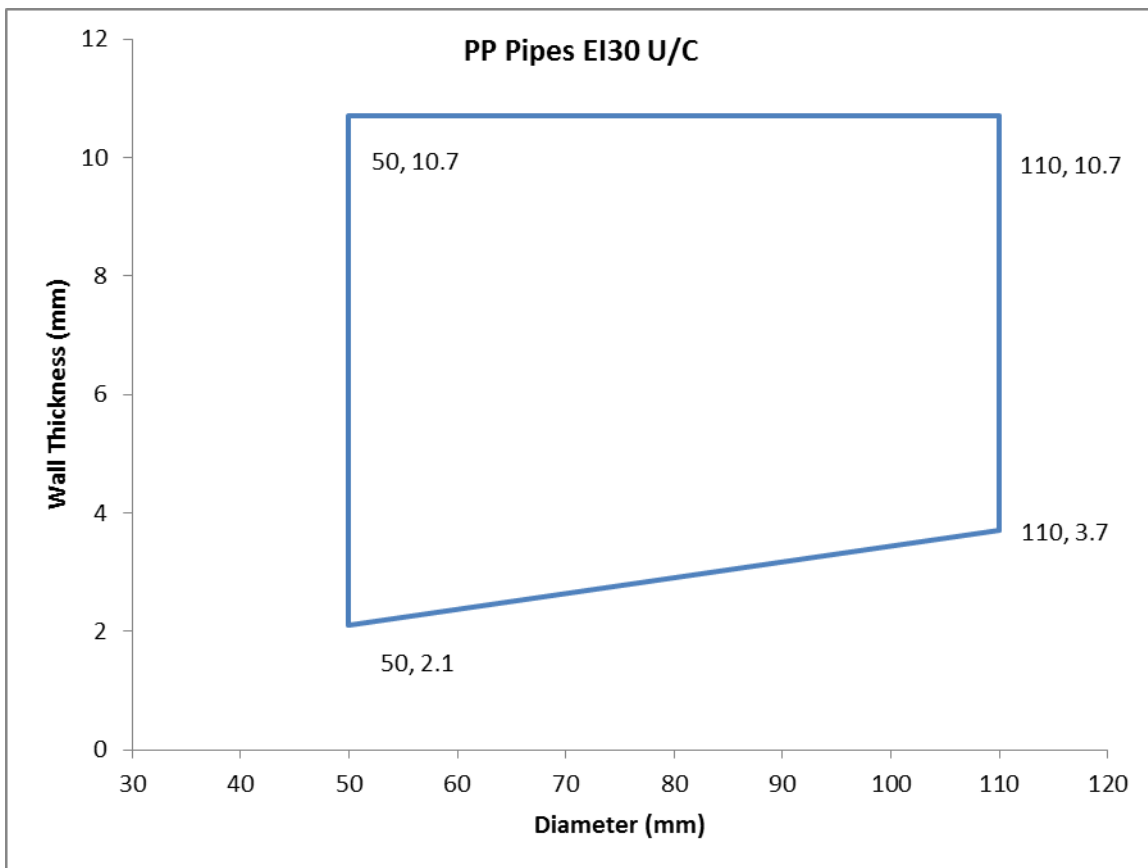
- SikaSeal®-623 Fire applied into the annular space to the required depth as per the table page 28
- First support positioned 250mm from the upper face of the substrate



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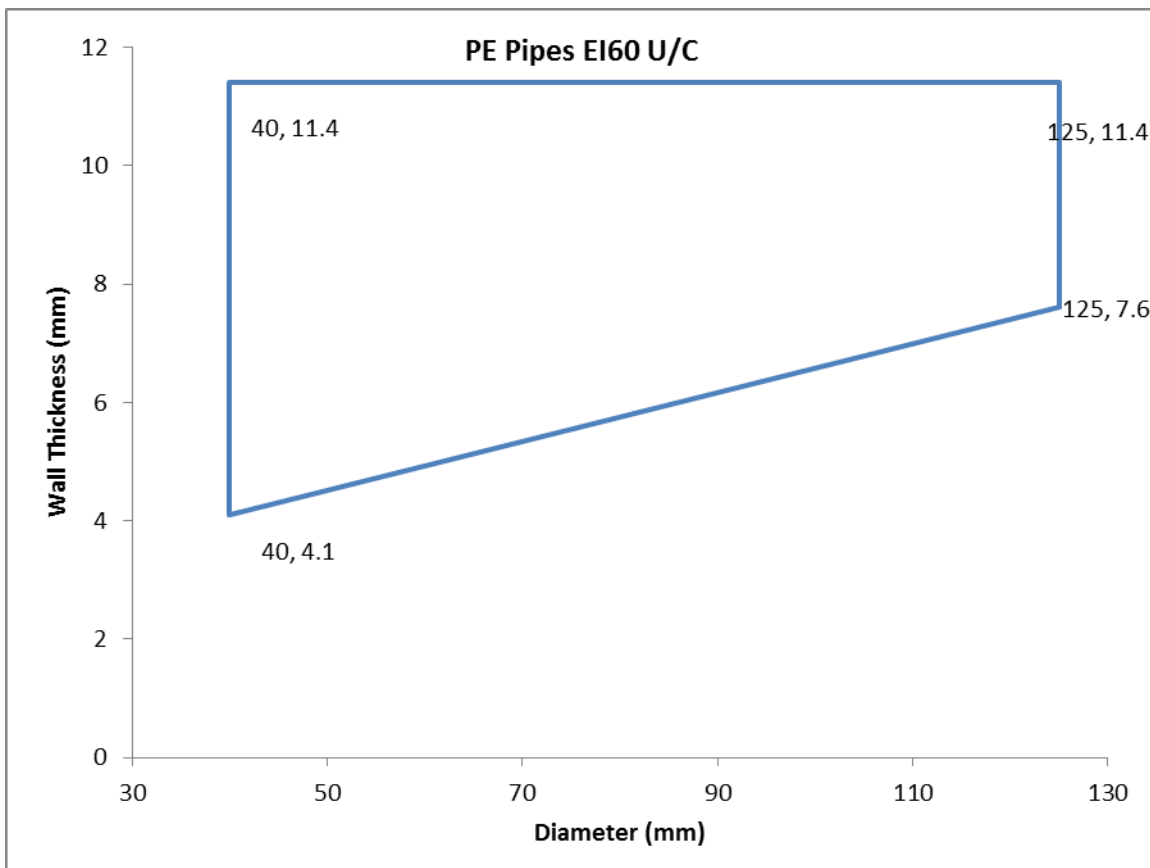
Penetration Specification	SikaSeal®-623 Fire (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PP Pipe 110mm ϕ 3.7mm wall thickness	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI30 U/C
PP Pipe 110mm ϕ 10.7mm wall thickness				EI120 U/C
PP Pipe 50mm ϕ 2.1mm wall thickness				EI240 U/C



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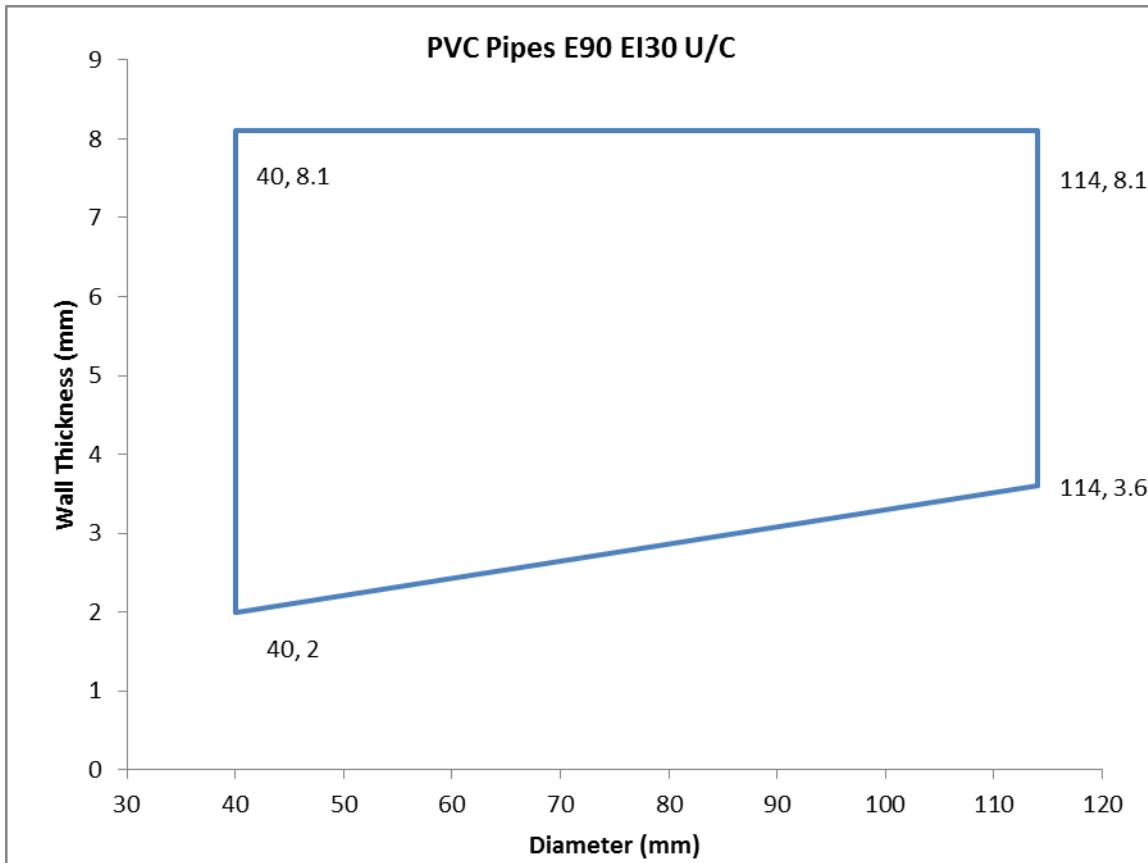
Penetration Specification	SikaSeal®-623 Fire (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PE Pipe 40mm ϕ 4.1mm wall thickness	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI240 U/C
PE Pipe 125mm ϕ 7.6 mm wall thickness				EI60 U/C
PE Pipe 125mm ϕ 11.4 mm wall thickness				EI90 U/C



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Penetration Specification	SikaSeal®-623 Fire (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PVC Pipe 40mm ø 2mm wall thickness	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI240 U/C
PVC Pipe 114mm ø 3.6 mm wall thickness				E90 U/C EI45 U/C
PVC Pipe 114mm ø 8.1 mm wall thickness				EI120 U/C



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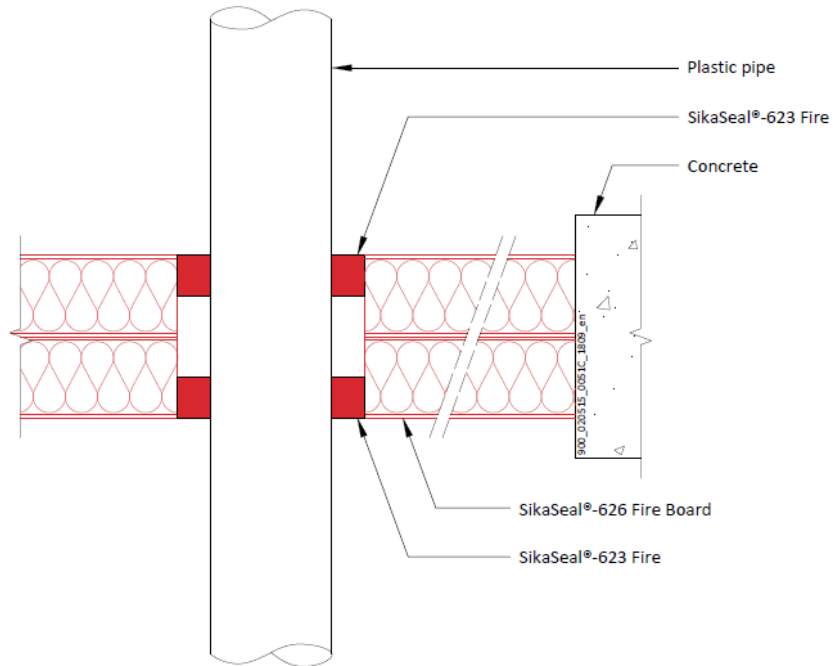
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A.5.1 Rigid floor constructions according to 1.2 with wall thickness of minimum 150 mm incorporating SikaSeal®-626 Fire Board

A.5.1.1 Penetration seal with SikaSeal®-623 Fire – Plastic Pipes

Construction details:

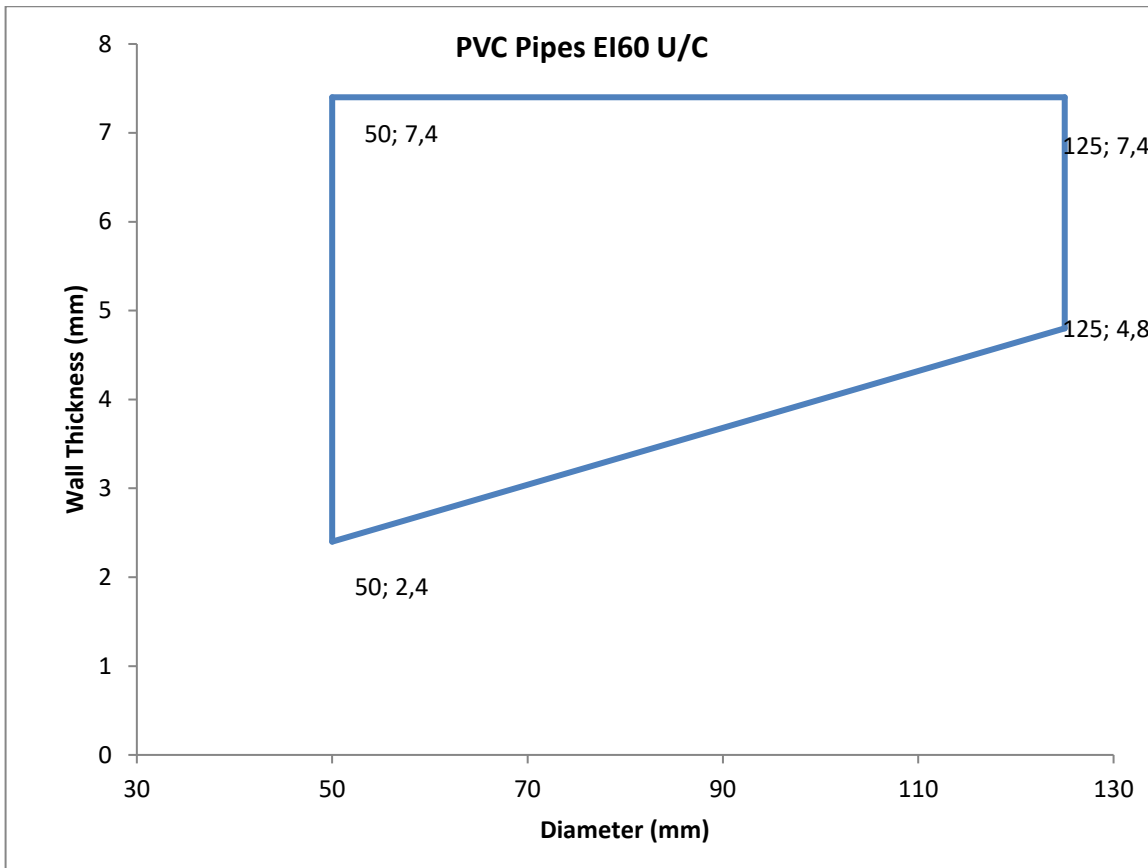
- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 400mm from the upper face of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
Pipe Diameters as below	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	See below

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Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI60 U/C
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

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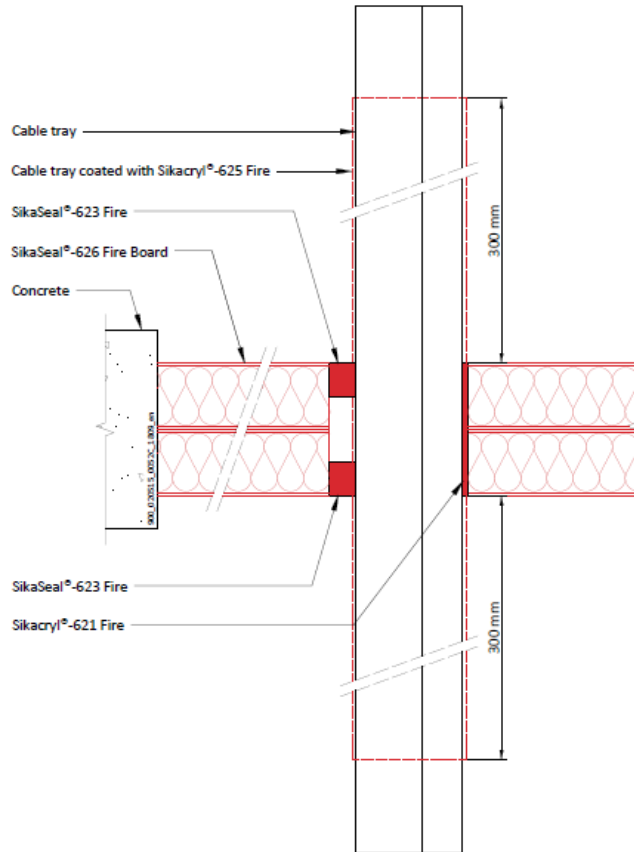
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A.5.2.1 Penetration seal with SikaSeal®-623 Fire – Electrical Cables

Construction details:

- SikaSeal®-623 Fire applied into the annular space to the required depth as per table below
- First support positioned 400mm from the upper face of the substrate



Penetration Specification	SikaSeal®-623 Fire	SikaSeal®-626 Fire Board	Classification
*500mm perforated cable tray	20mm annulus, 25mm deep both faces of the SikaSeal®-626 Fire Board	Double layer of 50mm SikaSeal®-626 Fire Board max 1100mm high x 750mm wide	EI60
*Electrical cables up to 21mm ø			
*1 off 'C1' Cable			
*1 off 'C2' Cable			
*1 off 'C3' Cable			

*All cables coated with 2mm DFT Sikacryl®-625 Fire 300mm along the cables upper side of the seal

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CE MARKING TO BE PLACED ON THE LABEL

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EAD 350454-00-1104:2017
1121, 2812
Fire stopping and fire sealing products, penetration seals
For details see accompanying documents
http://dop.sika.com

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

LEGAL NOTE

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or endusers of the product have been given in good faith based on our own experiences and based of approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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Sika Danmark A/S
Hirsemarken 5
3520 Farum

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