

# SikaSeal-629 Fire Wrap+

## DECLARATION OF PERFORMANCE

### No. 16297650

1	<b>UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:</b>	16297650
2	<b>INTENDED USE/S</b>	EAD 350454-00-1104:2017 Fire Stopping and Sealing Product: Penetration Seals
3	<b>MANUFACTURER:</b>	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	<b>AUTHORISED REPRESENTATIVE:</b>	-
5	<b>SYSTEM/S OF AVCP:</b>	System 1
6b	<b>EUROPEAN ASSESSMENT DOCUMENT:</b>	EAD 350454-00-1104:2017
	European Technical Assessment:	ETA-21/1032 of 2021/11/2517
	Technical Assessment Body:	ETA-DANMARK A/S
	Notified body/ies:	2531

#### Declaration of Performance

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**7 DECLARED PERFORMANCE/S**

<b>Essential Characteristics</b>	<b>Performance</b>	<b>AVCP</b>	<b>Harmonised Technical Specification</b>
Reaction to fire	NPD	System 1	
Resistance to fire	Annex A	System 1	
Air permeability	NPD	System 1	
Water permeability	NPD	System 1	
Content, emission and/or release of dangerous substances	NPD	System 1	
Mechanical resistance and stability	NPD	System 1	EAD 350454-00-1104:2017
Resistance to impact/movement	NPD	System 1	
Adhesion	NPD	System 1	
Durability	X	System 1	
Airborne sound insulation at 25 mm depth	NPD	System 1	
Thermal properties	NPD	System 1	
Water vapour permeability	NPD	System 1	

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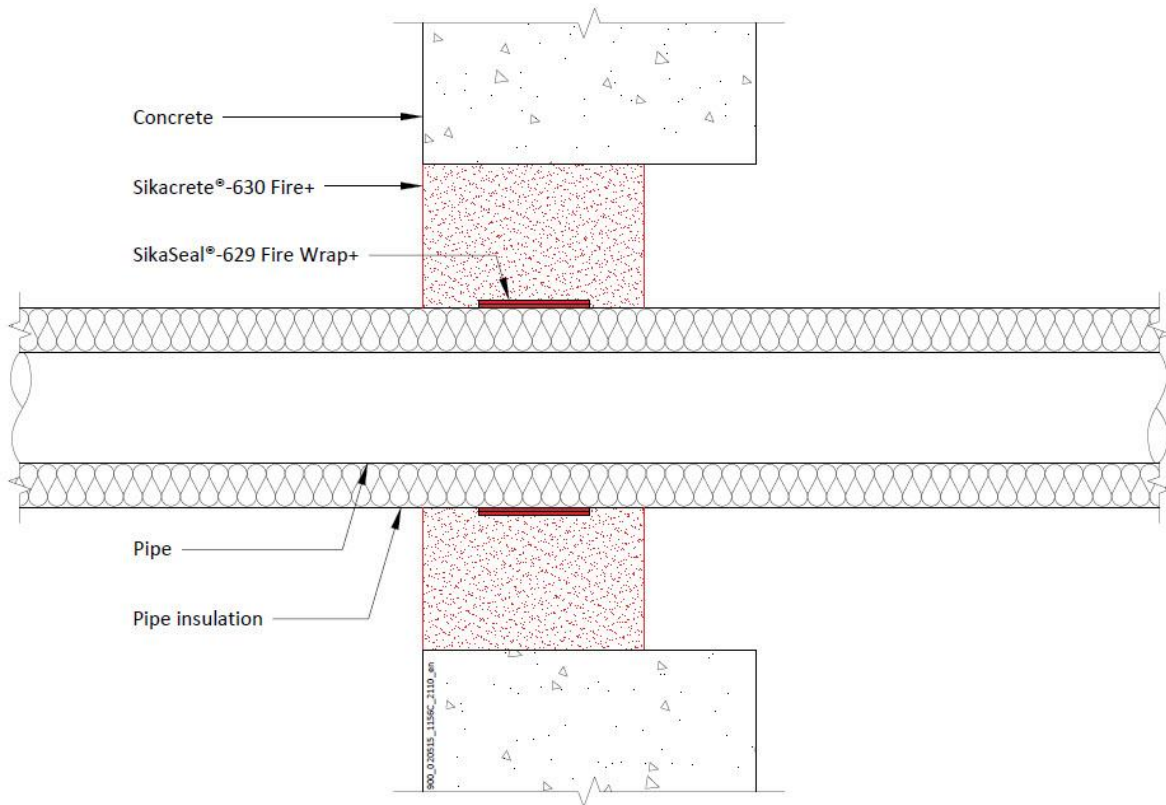
## ANNEX A – Resistance to Fire Classification – SikaSeal-629 Fire Wrap+

### A.1 Rigid wall constructions with wall thickness of minimum 150 mm

#### A.1.1 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid walls with insulated metal pipes

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 10 mm from seal edges), with 100 mm Sikacrete-630 Fire+ to either side of the wall. SikaSeal-629 Fire Wrap+ are required to be centrally within the seal for pipes with combustible insulation. Maximum seal size 2400 mm wide x 1200 mm high.

Construction details:



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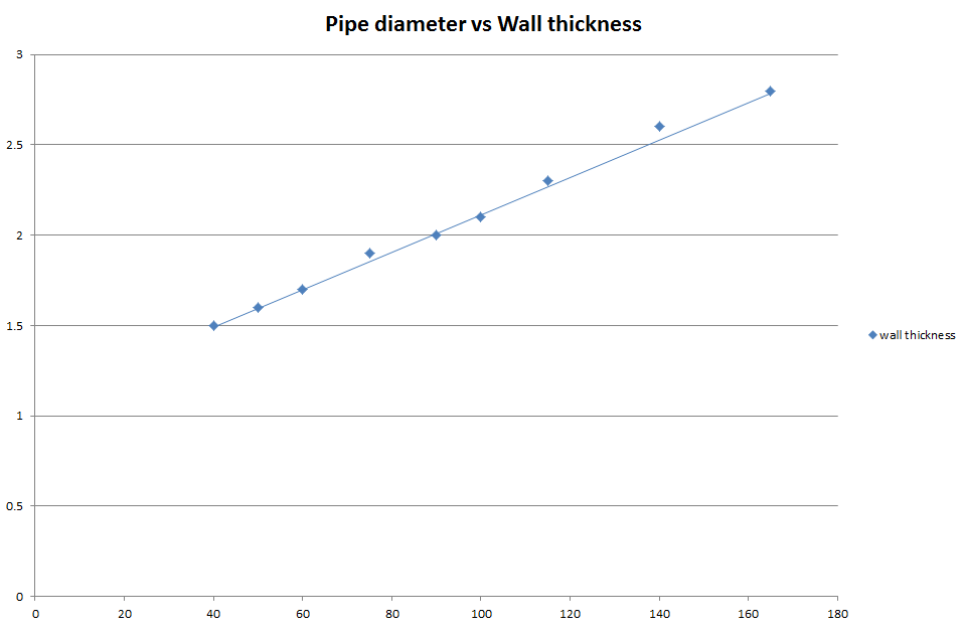
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### A.1.1.1

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall	1 off 50 x 3.6mm SikaSeal-629 Fire Wrap+, fitted central	13 mm Elastomeric insulation minimum class Bs3,d0 or PE Foam insulation	EI 240 C/U
165 mm diameter/4.5-14.2 mm wall		9 mm Elastomeric insulation minimum class Bs3,d0 or PE Foam insulation	E 240 C/U, EI 30 C/U
40 mm diameter/1.5-14.2 mm wall*	1 off 50 x 1.8mm SikaSeal-629 Fire Wrap+, fitted central	13 -19 mm Elastomeric insulation minimum class Bs3,d0 or PE Foam insulation	E 240 C/U, EI 60 C/U
50 mm diameter/1.6-14.2 mm wall*			
60 mm diameter/1.7-14.2 mm wall*			
75 mm diameter/1.9-14.2 mm wall*			
90 mm diameter/2-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.3-14.2 mm wall*			
140 mm diameter/2.6-14.2 mm wall*			
165 mm diameter/2.8-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes



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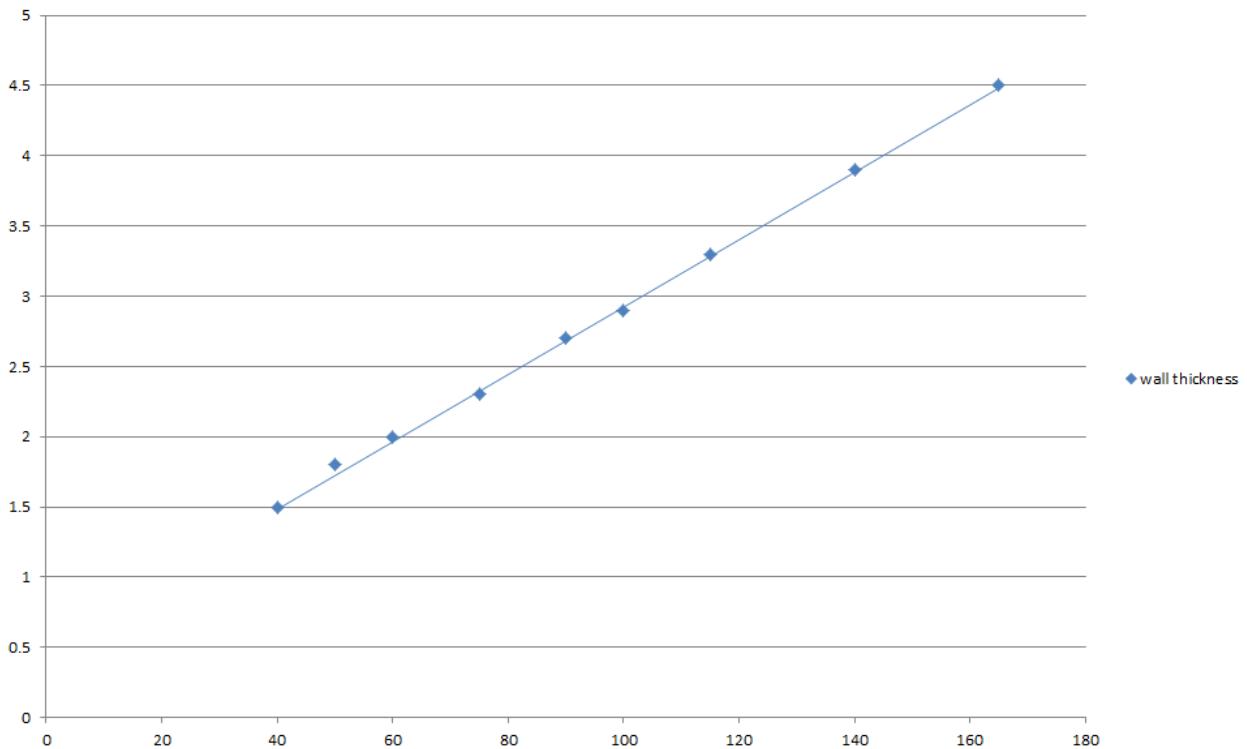
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### A.1.1.2

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	1 off 50 x 3.6mm SikaSeal-629 Fire Wrap+, fitted central	13-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	<b>E 180 C/U, EI 60 C/U</b>
50 mm diameter/1.8-14.2 mm wall*			
60 mm diameter/2-14.2 mm wall*			
75 mm diameter/2.3-14.2 mm wall*			
90 mm diameter/2.7-14.2 mm wall*			
100 mm diameter/2.9-14.2 mm wall*			
115 mm diameter/3.3-14.2 mm wall*			
140 mm diameter/3.9-14.2 mm wall*			
165 mm diameter/4.5-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

**Pipe diameter vs Wall thickness**



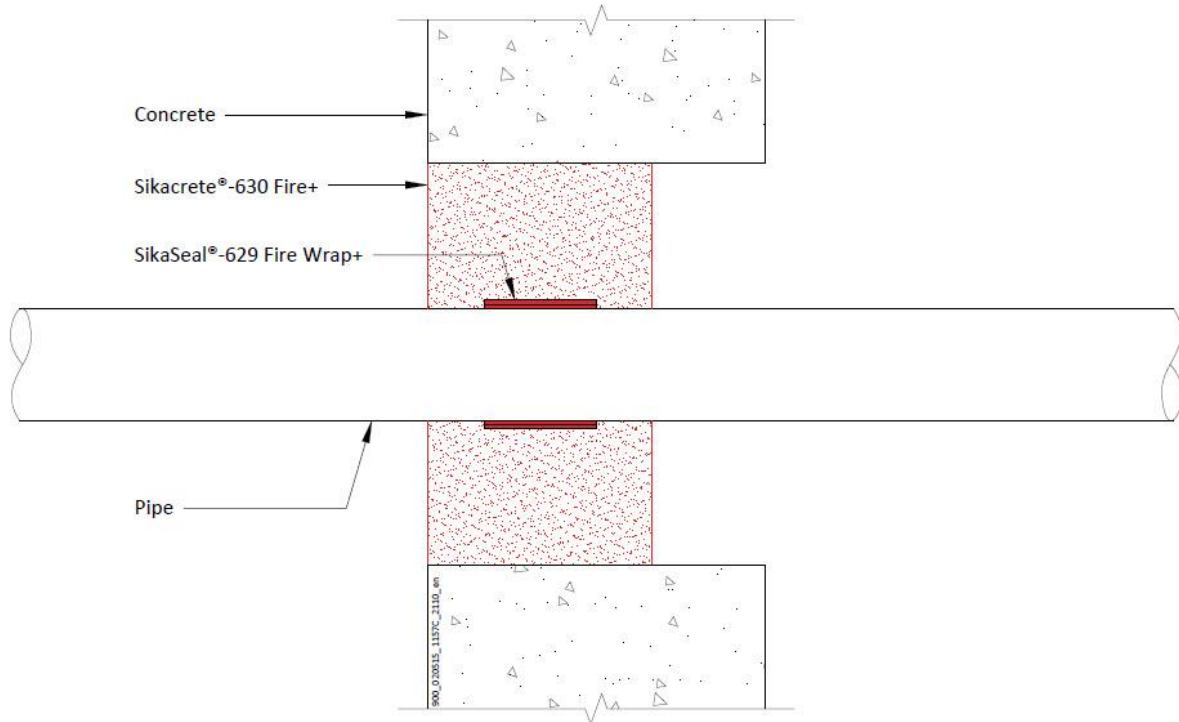
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**A.1.2 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid walls with plastic pipes**

**Penetration Seal:** plastic pipes fitted at any position within the aperture (min. separation 10 mm from seal edges), with 100 mm Sikacrete-630 Fire+ to either side of the wall. SikaSeal-629 Fire Wrap+ are required to be centrally within the seal. Maximum seal size 2400 mm wide x 1200 mm high

Construction details:



**A.1.2.1**

Services	Wrap	Insulation	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1			
315 mm diameter/9.2 mm wall	1 off 75 x 18 mm SikaSeal-629 Fire Wrap+, fitted central	None	EI 120 C/C

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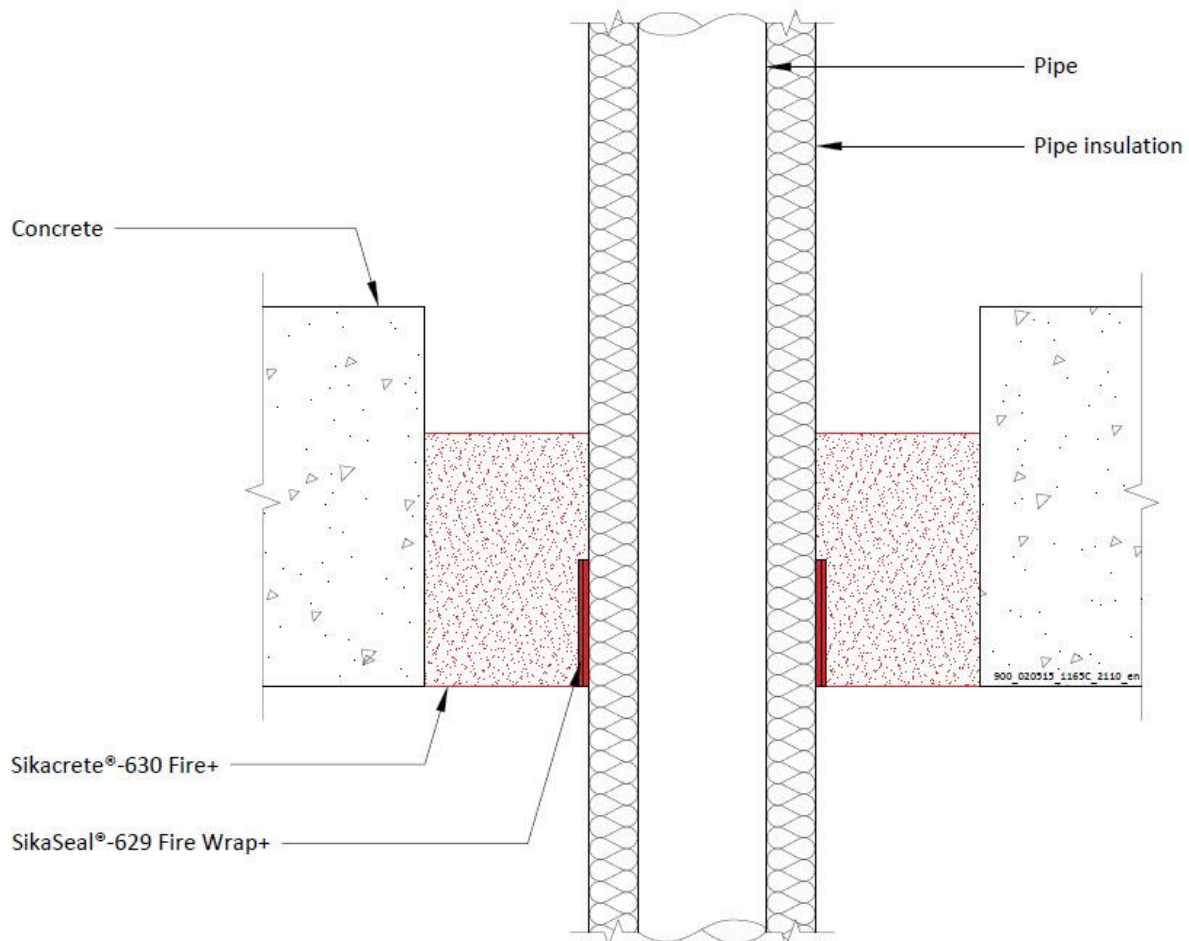
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## A.2 Rigid floor constructions with a minimum thickness 150 mm

### A.2.1 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid floors, with insulated metal pipes

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 25 mm from seal edges and 30 mm from other services), with 100 mm Sikacrete-630 Fire+ at any position within the floor. SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation. Maximum seal size 1200 x 2400 mm.

Construction details:



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**A.2.2.1**

Services	Wrap	Insulation	Classification
Copper pipe			
12 mm diameter/1 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to the soffit	9 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>EI 240 C/C</b>
12-54 mm diameter/1-1.2 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 240 C/C, EI 60 C/C</b>
Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD pipe)			
16 mm diameter/2.25 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to the soffit	9 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>EI 240 C/C</b>
16 mm diameter/2.25 mm wall		9-13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 240 C/C, EI 90 C/C</b>
20 mm diameter/2.5 mm wall			
26 mm diameter/3 mm wall			
32 mm diameter/3 mm wall			
40 mm diameter/3.5 mm wall			
50 mm diameter/4 mm wall			
63 mm diameter/4.5 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 180 C/C, EI 90 C/C</b>
75 mm diameter/4.7 mm wall			
16 mm diameter/2.25 mm wall			
20 mm diameter/2.5 mm wall			
26 mm diameter/3 mm wall			
32 mm diameter/3 mm wall			
40 mm diameter/3.5 mm wall			
50 mm diameter/4 mm wall			
63 mm diameter/4.5 mm wall			
75 mm diameter/4.7 mm wall			

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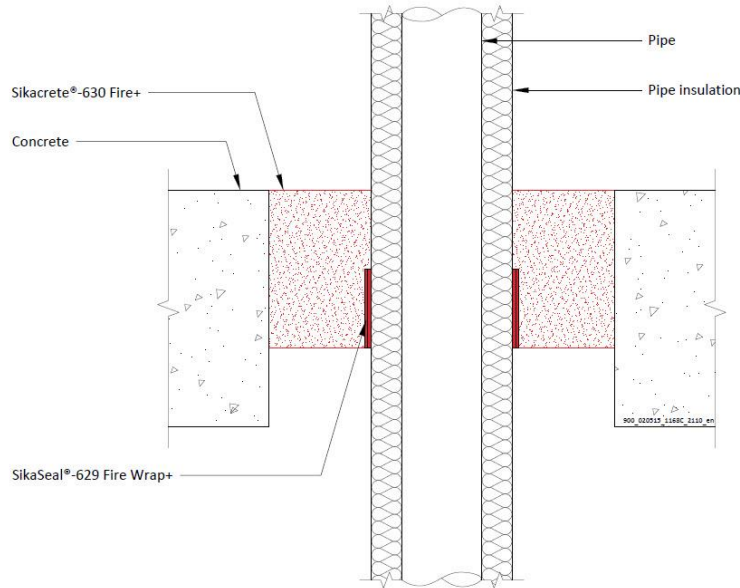




**A.2.2 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid floors, with insulated metal pipes**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges and 30 mm from other services), with 100 mm Sikacrete-630 Fire+ to the top surface of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation. Maximum seal size 2400 mm x 1200 mm.

Construction details:



**A.2.2.1**

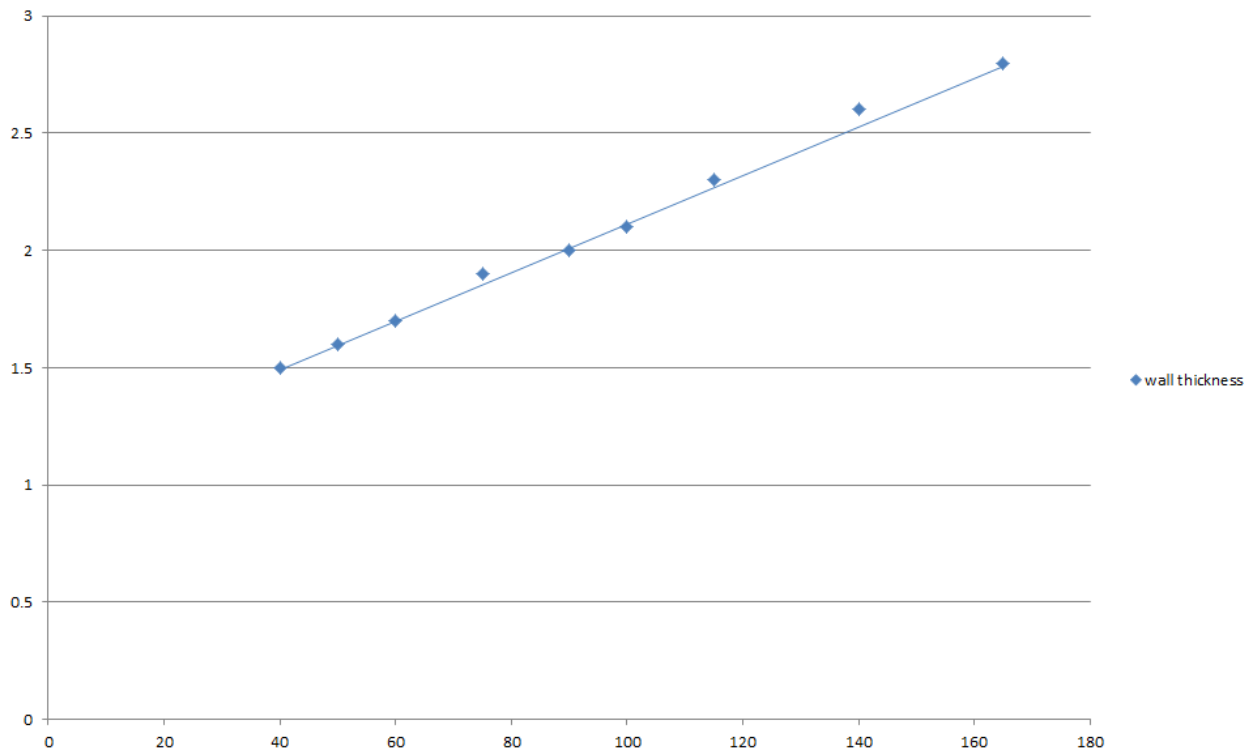
Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/-14.2 mm wall		13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>EI 180 C/U</b>
40 mm diameter/1.5-14.2 mm wall*	1 off 50 x 1.8 mm SikaSeal-629 Fire Wrap+, fitted at soffit	13 -19 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 180 C/U, EI 120 C/U</b>
50 mm diameter/1.6-14.2 mm wall*			
60 mm diameter/1.7-14.2 mm wall*			
75 mm diameter/1.9-14.2 mm wall*			
90 mm diameter/2-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.3-14.2 mm wall*			
140 mm diameter/2.6-14.2 mm wall*			
165 mm diameter/2.8-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

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**Pipe diameter vs Wall thickness**



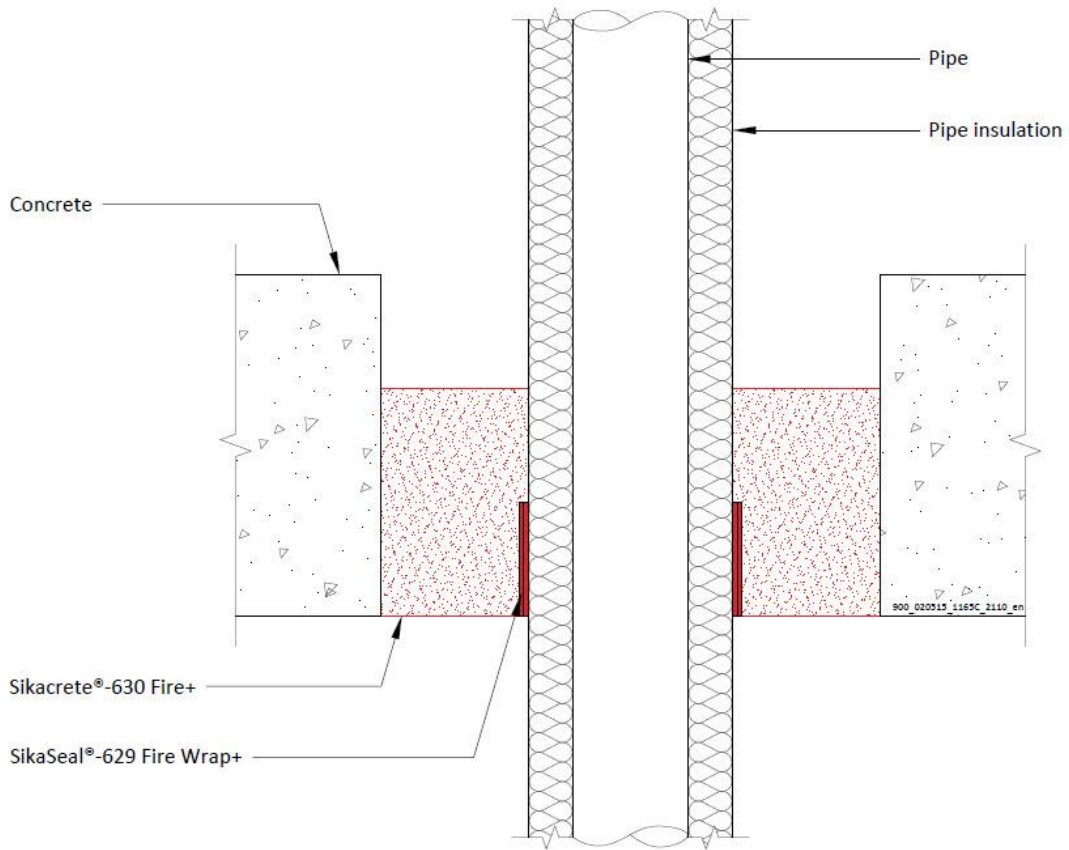
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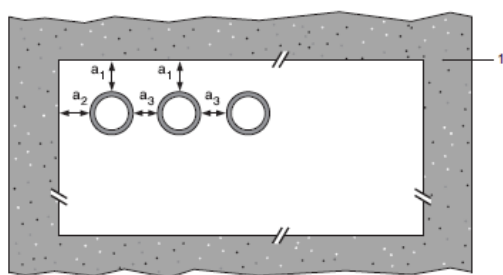
**A.2.3 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in Sikacrete-630 Fire+ Seal, in rigid floors**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes sealed with SikaSeal-629 Fire Wrap+, fitted at any position within the aperture, with 100 mm Sikacrete-630 Fire+ Seal. Minimum separation between penetration seals and seal edges of 30 mm (Configuration 1 & 2).

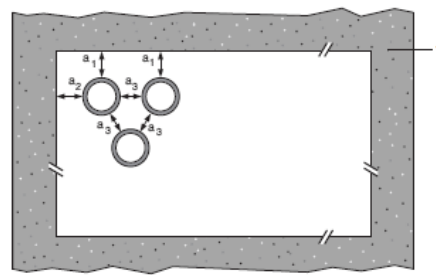
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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### A.2.3.1

Mild or stainless steel pipe	Insulation	SikaSeal-629 Fire Wrap+	Classification
40 mm diameter/1-14.2 mm wall	25 mm thick Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	50 x 3.6 mm (2 x 1.8 layer)	EI 240 C/U
40 mm diameter/1-14.2 mm wall*	25mm thick Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation		E 240 C/U EI 120 C/U
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.6-14.2 mm wall*			
90 mm diameter/1.9-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.4-14.2 mm wall*			
140 mm diameter/2.9-14.2 mm wall*			
165 mm diameter/ 3.4-14.2 mm wall*			
180 mm diameter/ 3.6-14.2 mm wall*			
200 mm diameter/ 4.0-14.2 mm wall*			
219 mm diameter/ 4.3-14.2 mm wall*			
250 mm diameter/ 5.0-14.2 mm wall*			
300 mm diameter/ 5.9-14.2 mm wall*			
324 mm diameter/ 6.35-14.2 mm wall*			
40 mm diameter/1-14.2 mm wall*	25-50mm thick Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	50 x 5.4 mm (3 x 1.8 layer)	EI 120 C/U
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.6-14.2 mm wall*			
90 mm diameter/1.9-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.4-14.2 mm wall*			
140 mm diameter/2.9-14.2 mm wall*			
165 mm diameter/ 3.4-14.2 mm wall*			
180 mm diameter/ 3.6-14.2 mm wall*			
200 mm diameter/ 4.0-14.2 mm wall*			
219 mm diameter/ 4.3-14.2 mm wall*			
250 mm diameter/ 5.0-14.2 mm wall*			
300 mm diameter/ 5.9-14.2 mm wall*			
324 mm diameter/ 6.35-14.2 mm wall*			

#### Declaration of Performance

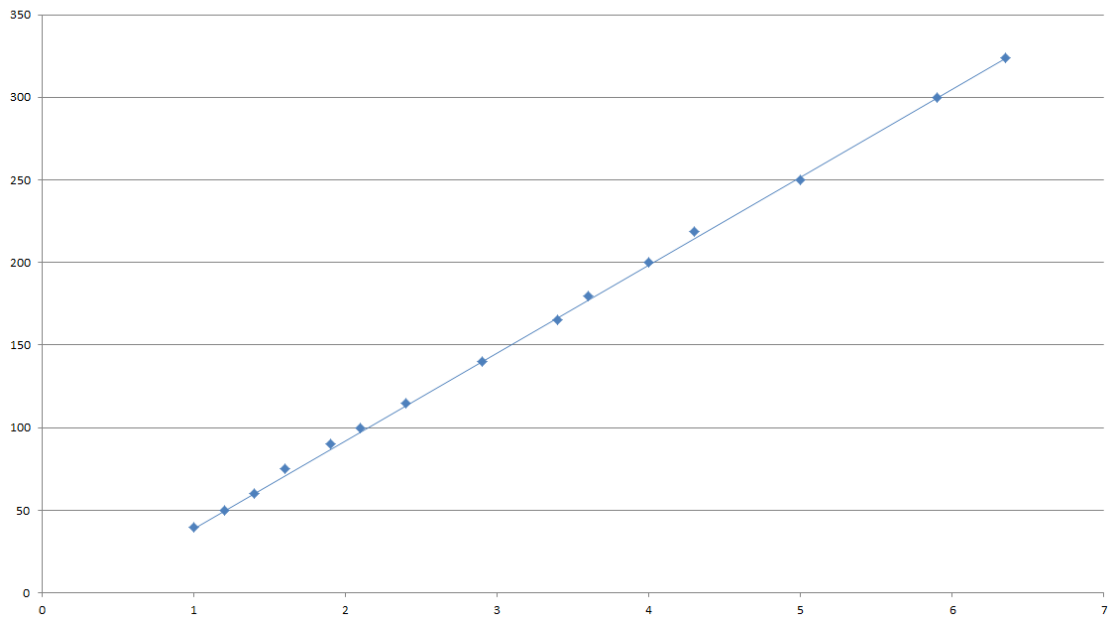
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Pipe Diameter vs wall thickness



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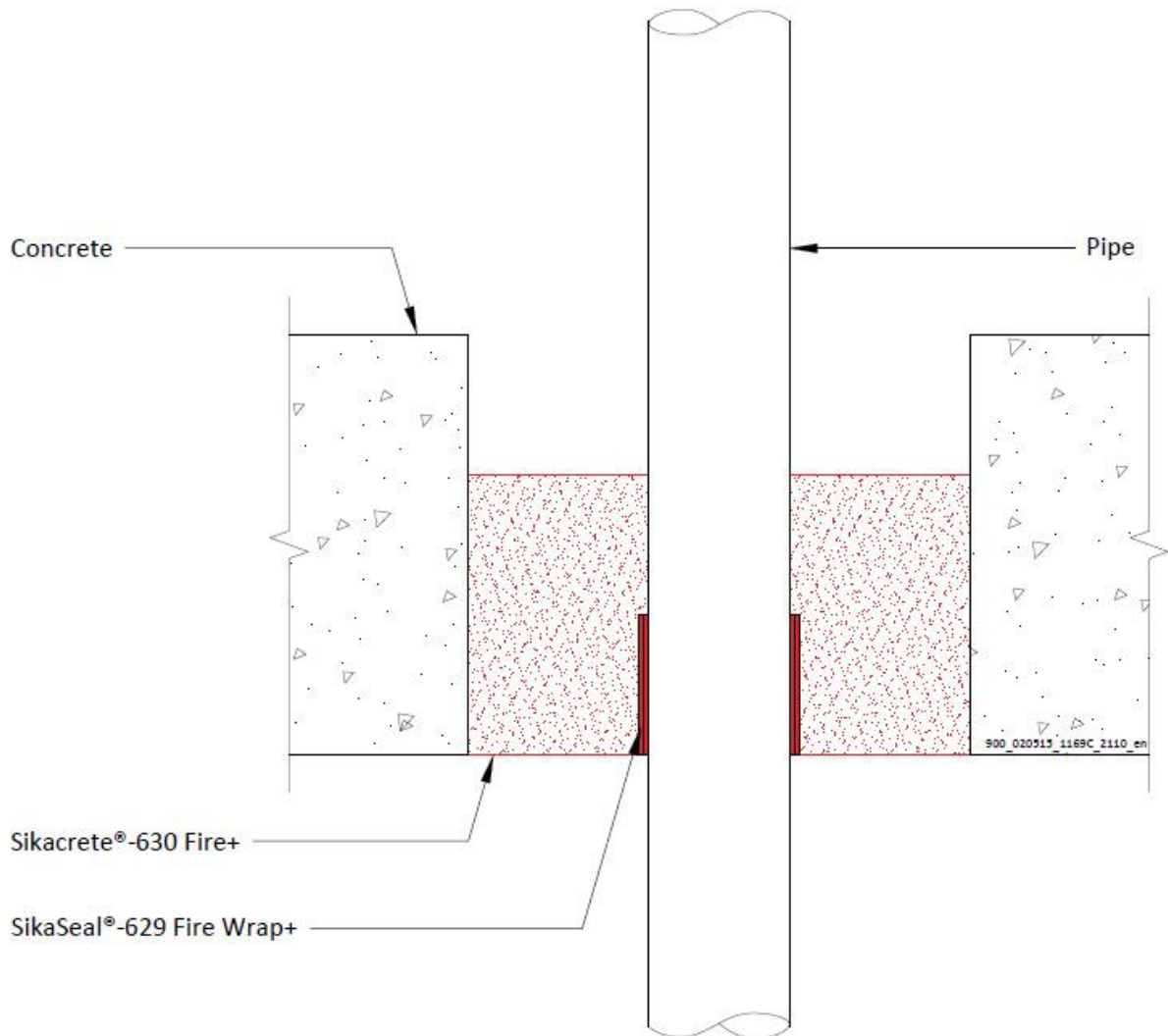
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#### A.2.4 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm deep Sikacrete-630 Fire+ seals in rigid floors, with plastic pipes

**Penetration Seal:** Plastic pipes fitted at any position within the aperture, with 100 mm Sikacrete-630 Fire+ to the either surface of the floor or anywhere between. SikaSeal-629 Fire Wrap+ are required to be fitted to the bottom of the seal, as indicated below. Minimum separation between penetration seals and seal edges of 30 mm (Configuration 1 & 2).

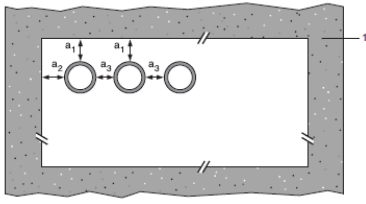
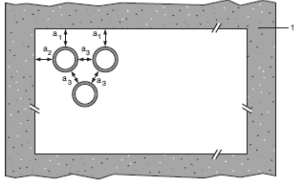
Construction details:



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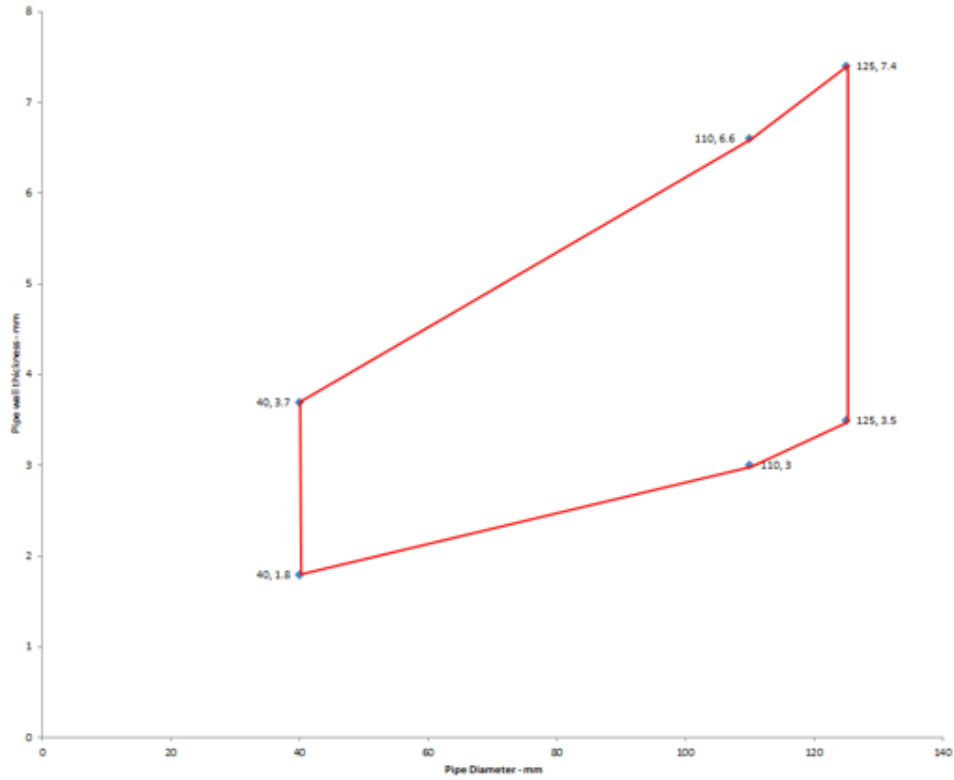
### A.2.4.1

Services	Wrap	Maximum aperture	Classification
<b>PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1</b>			
Up to 40 mm diameter / 1.8-3.7 mm wall	50 x 1.8 mm	2400 x 1200 mm	<b>E 180 U/U, EI 120 U/U</b>
Up to 110 mm diameter / 3.0-6.6 mm wall	50 x 3.6 mm		<b>EI 240 U/C</b>
Up to 125 mm diameter / 3.5-7.4 mm wall	50 x 7.2 mm		<b>EI 120 U/C</b>
Up to 160 mm diameter / 4.5 mm wall	50 x 10.8 mm		<b>EI 240 C/C</b>
Up to 160 mm diameter / 4.5-9.5 mm wall	50 x 10.8 mm		<b>EI 90 C/C</b>
Up to 110 mm diameter/ 2.7-6.6 mm wall, containing up to 90mm Ø bundle of up to 14 mm Ø telecom cables	50 x 3.6 mm		<b>EI 120 U/C</b>
<b>PP pipe according to EN 1451-1</b>			
Up to 40 mm diameter /1.8-4.4 mm wall	None	2400 x 1200 mm	<b>EI 120 U/C</b>
Up to 40 mm diameter /1.8-5.5 mm wall	50 x 1.8 mm		<b>EI 120 U/U</b>
Up to 50 mm diameter /2.5-5.5 mm wall	50 x 3.6 mm		<b>EI 240 C/C</b>
Up to 75 mm diameter /3.5-5.5 mm wall	50 x 3.6 mm		<b>EI 240 C/C</b>
Up to 110 mm diameter /2.7-6.3 mm wall	50 x 3.6 mm		<b>EI 240 U/C</b>
Up to 125 mm diameter /3.4-11.4 mm wall	50 x 7.2 mm		<b>EI 240 U/C</b>
Up to 160 mm diameter /4.9-14.6 mm wall	50 x 10.8 mm		<b>EI 240 U/C</b>
Up to 110 mm diameter/ 3.4-6.3 mm wall, containing up to 90mm Ø bundle of up to 14 mm Ø telecom cables	50 x 3.6 mm		<b>EI 60 U/C</b>
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>			
Up to 40 mm diameter / 2.0-4.4 mm wall	None	2400 x 1200 mm	<b>EI 120 U/C</b>
Up to 40 mm diameter / 2.4-3.7 mm wall	50 x 1.8 mm		<b>EI 240 U/U</b>
Up to 110 mm diameter / 3.4-10.0 mm wall	50 x 3.6 mm		<b>EI 120 U/C</b>
Up to 125 mm diameter / 3.9-11.4 mm wall	50 x 7.2 mm		<b>EI 240 U/C</b>
Up to 160 mm diameter / 4.9-14.6 mm wall	50 x 10.8 mm		<b>EI 120 U/C</b>
Up to 250 mm diameter / 7.8 mm wall	75 x 12.6 mm		<b>EI 180 C/C</b>
Up to 110 mm diameter/ 2.7-10.0 mm wall, containing up to 90mm Ø bundle of up to 14 mm Ø telecom cables	50 x 3.6 mm		<b>E 120 U/C, EI 60 U/C</b>
<b>Configuration 1</b>		<b>Configuration 2</b>	
			
<b>Key</b> 1 Supporting construction a1 Pipe / top edge of seal separation a2 Pipe / side edge of seal separation a3 Pipe / pipe separation			

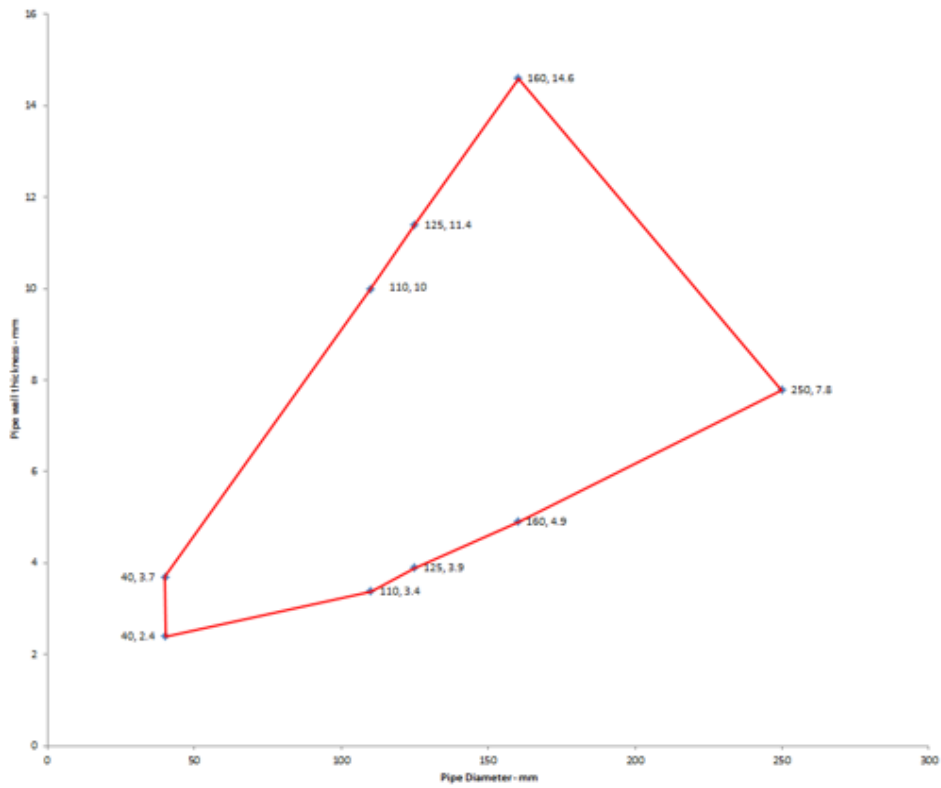
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PVC-U pipes U/C with SikaSeal-629 Fire Wrap+ - EI 120 U/C



PE pipes U/C with SikaSeal-629 Fire Wrap+ - EI 120 U/C

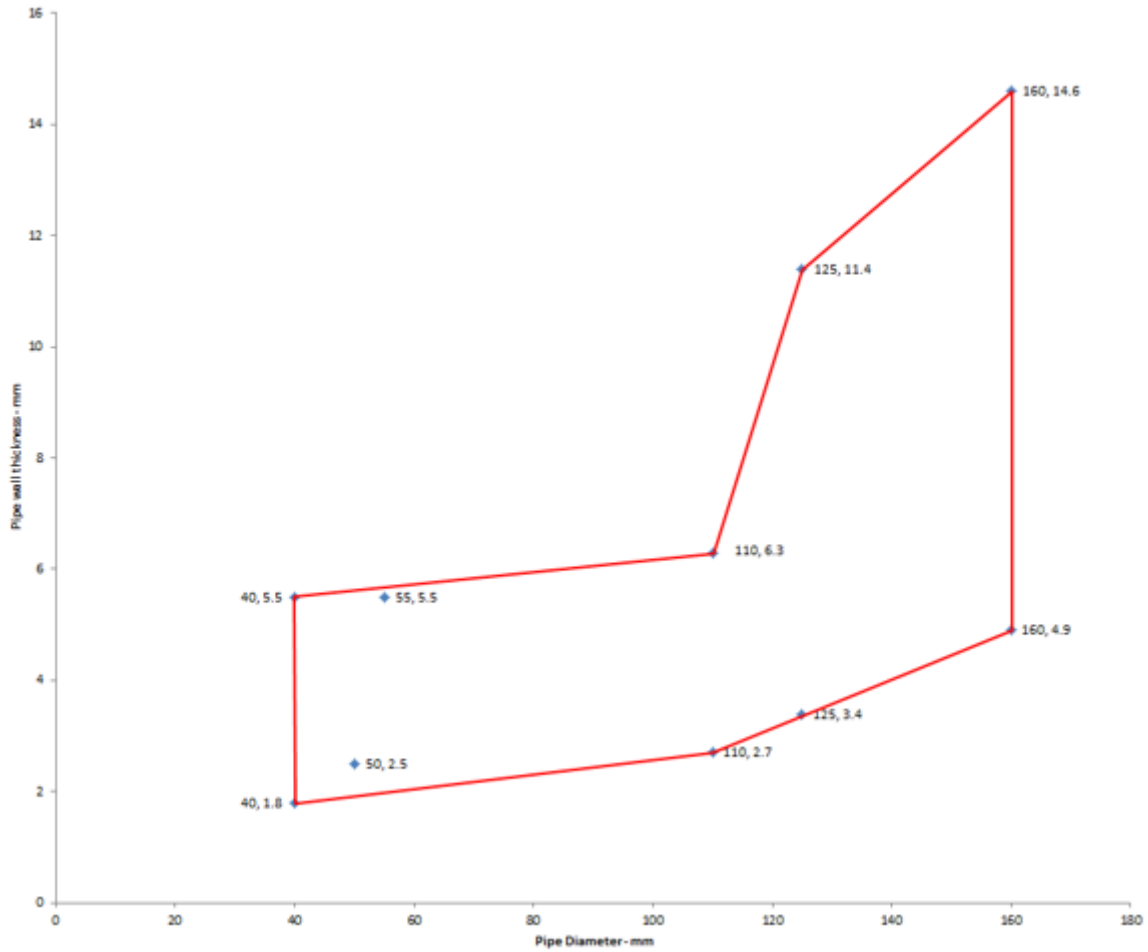


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PP pipes U/C with SikaSeal-629 Fire Wrap+ . EI 120 U/C



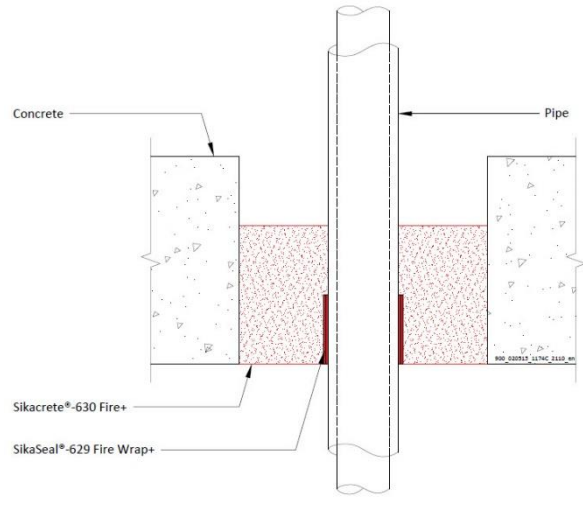
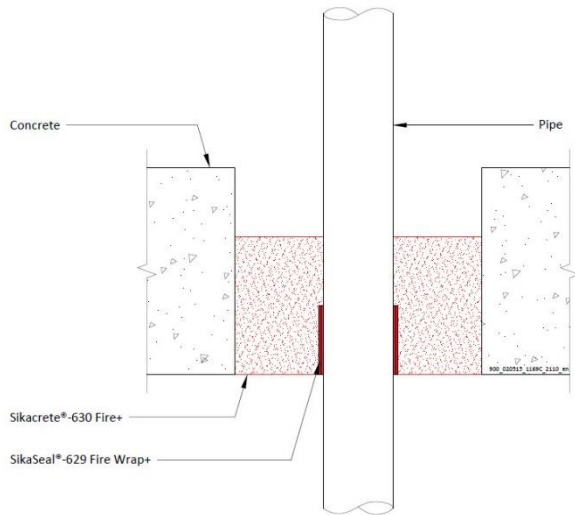
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**A.2.5 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid floors, with plastic pipes**

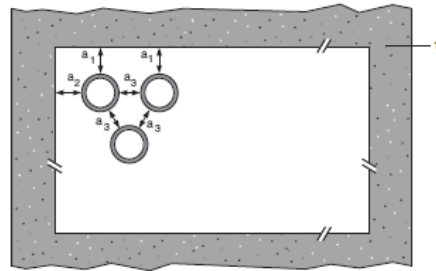
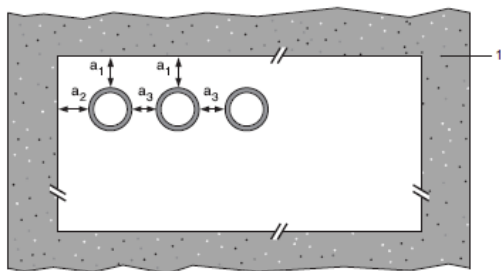
**Penetration Seal:** Plastic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges and from other services), with 100 mm Sikacrete-630 Fire+ to the bottom surface of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted to the bottom of the seal, as indicated below. Maximum seal size 2400 mm x 1200 mm.

Construction details:



**Configuration 1**

**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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### A.2.5.1

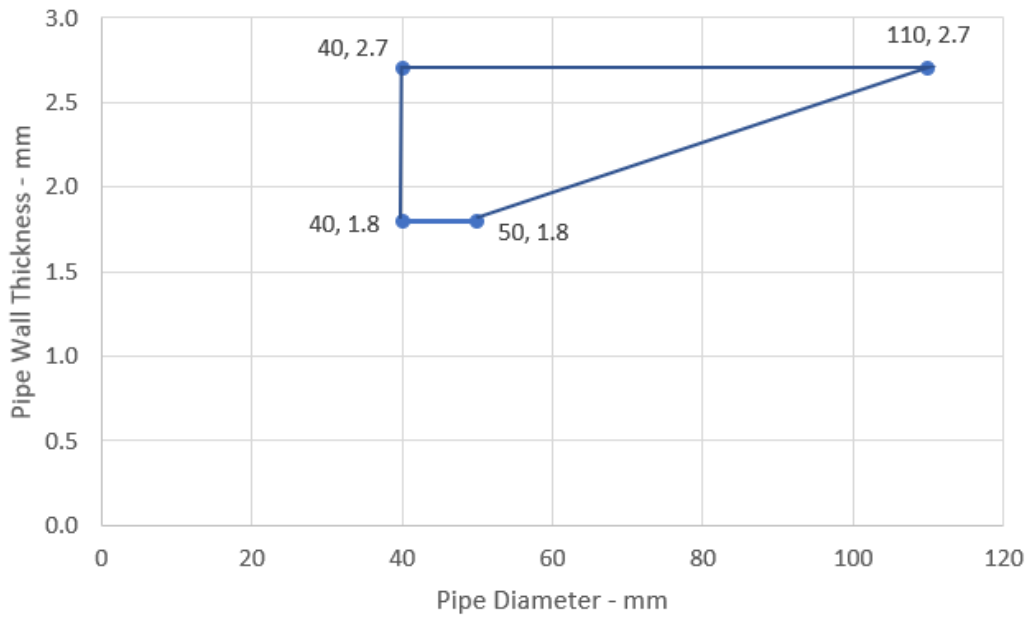
Services	Wrap	Permitted configuration for seal separation	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
160 mm diameter / 9.5 mm wall	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	EI 90 U/C
Uponor Wirsbo PEX pipe in pipe system according to ISO 15875			
Maximum 54 mm diameter/0.4 mm wall thickness (outer pipe), 28 mm diameter/4.0 mm wall thickness (inner pipe)	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 C/C
Rehau Raupiano Plus PP-DD according to DIN 4102			
40-50 mm diameter/1.8-2.7 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/U
75-110 mm diameter/2.7 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/C
125 mm diameter/3.1 mm wall thickness	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	E 240 U/C, EI 120 U/C
160 mm diameter/3.9 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	EI 120 U/C
Polo-Kal NG Poloplast PP-MV according to DIN 4102			
32-110 mm diameter/3.4 mm wall thickness	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 180 U/C
125 mm diameter/3.9 mm wall thickness	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	EI 240 U/C
160 mm diameter/4.3 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	EI 240 U/C
Aquatherm Green SDR9 MF PP-RP according to ISO 21003			
32 mm diameter/3.6 mm wall thickness	50 x 1.8 mm (1 x 1.8 layer)	1 & 2	EI 240 C/C
40-50 mm diameter/5.6-12.3 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 240 C/C
63-110 mm diameter/12.3 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 240 C/C
Wavin SiTech + PP-M B according to EN 13501-1			
32-50 mm diameter/1.8-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/U
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/C
Gilbert Silent PP according to DIN 4102			
32-50 mm diameter/1.8-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/U
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/C

\* Typical pipe diameters shown, see below graph for intermediate sizes

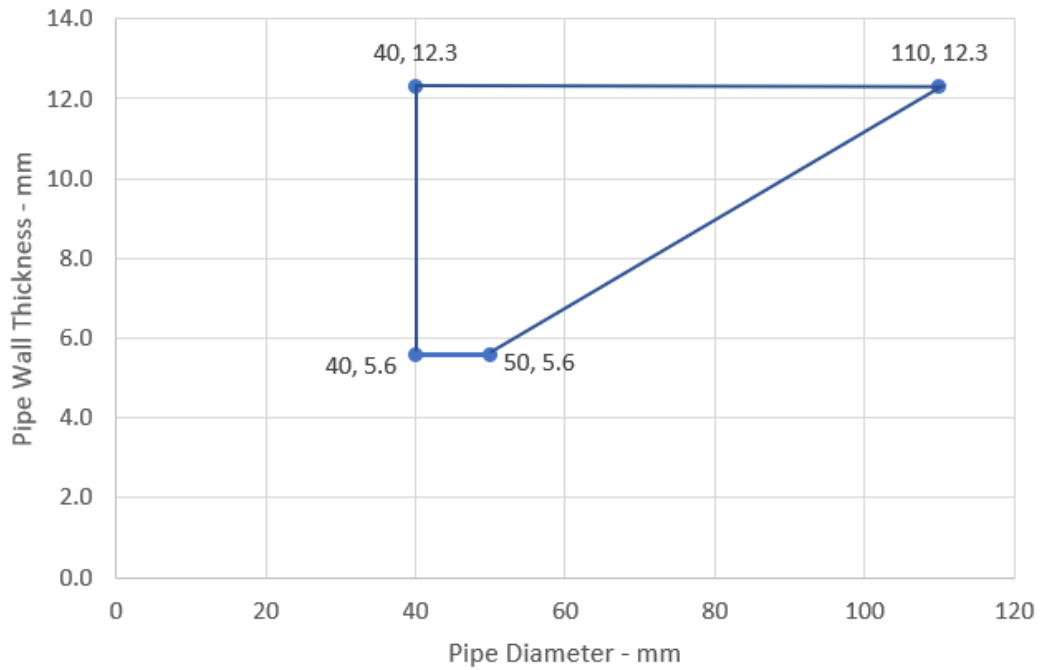
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### Rehau Raupiano Plus -EI 120 U/U



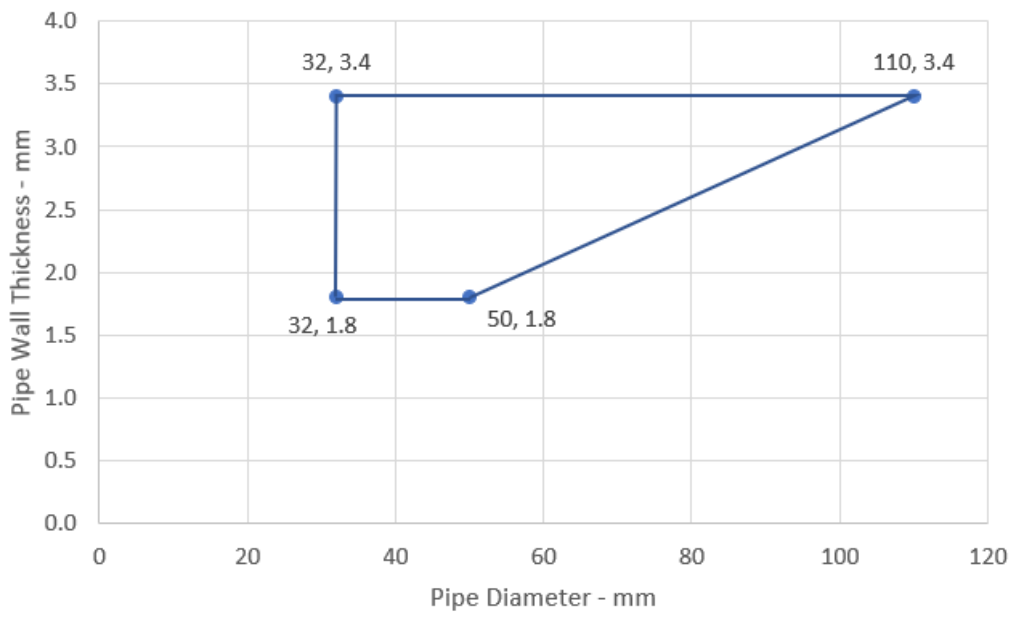
### Aquatherm Green - EI 240 C/C



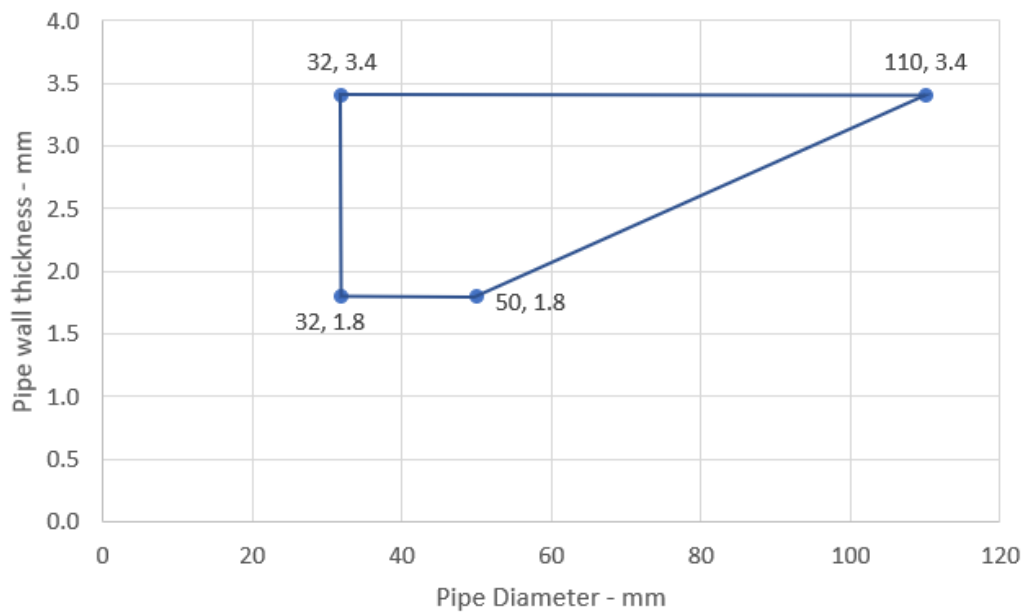
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### Wavin SiTech Pipes - EI 120 U/C



### Gilbert Silent PP - EI 120 U/C



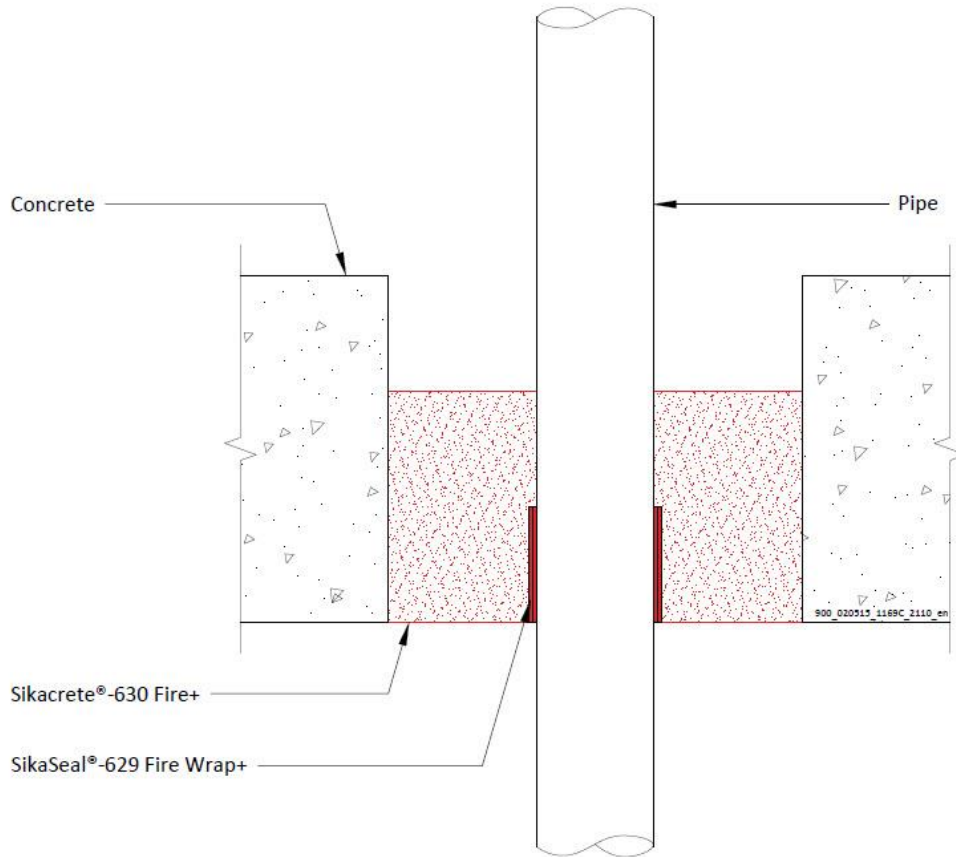
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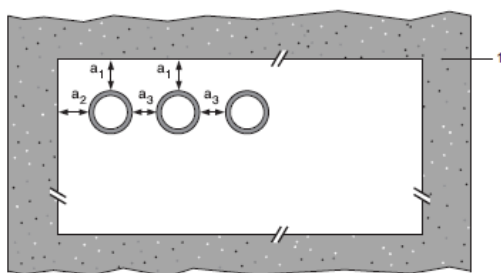
## A.2.6 SikaSeal-629 Fire Wrap+ penetration seals, in Sikacrete-630 Fire+ seals in rigid floors, with plastic pipes

**Penetration Seal:** Plastic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges and from other services), with Sikacrete-630 Fire+ to the bottom surface of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted to the bottom of the seal, as indicated below. Maximum seal size 2400 mm x 1200 mm.

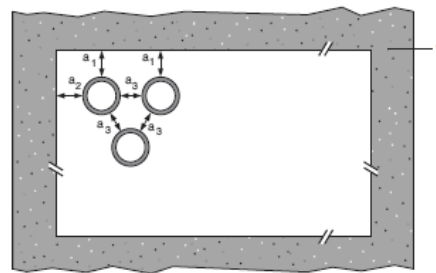
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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### A.2.6.1

Services	Wrap	Permitted configuration for seal separation	Mortar depth	Classification
<b>PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1</b>				
Diameter 41 mm, wall thickness 1.8-3.7 mm to diameter 125 mm, wall thickness 4.8-7.4 mm*	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	150 mm	EI 60 U/U
125 mm diameter / 7.4 mm wall	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	150 mm	EI 120 U/U
Diameter 126 mm, wall thickness 4.8-7.4 mm to diameter 160 mm, wall thickness 9.5 mm*	75 x 10.8 mm (6 x 1.8 layers)	1	150 mm	E 120 U/U, EI 30 U/U
160 mm diameter / 9.5 mm wall	75 x 7.2 mm (4 x 1.8 layers)	1	150 mm	E 120 U/U, EI 30 U/U
160 mm diameter / 4.5-9.5 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	120 mm	EI 120 U/C, EI 120 C/C
315 mm diameter / 7.7 mm wall thickness	75 x 18 mm (10 x 1.8 layers)	1	120 mm	EI 120 C/C
Diameter 161 mm, wall thickness 4.5-9.5 mm to diameter 315 mm, wall thickness 7.7-12.1 mm*	75 x 18 mm (10 x 1.8 layers)	1	120 mm	EI 90 C/C
315 mm diameter / 12.1 mm wall thickness	75 x 18 mm (10 x 1.8 layers)	1	120 mm	EI 90 C/C
<b>PP pipe according to EN 1451-1</b>				
Diameter 41 mm, wall thickness 1.8-5.5 mm to diameter 160 mm, wall thickness 4.9-14.6 mm*	75 x 10.8 mm (6 x 1.8 layers)	1 & 2	150 mm	EI 120 U/C
160 mm diameter / 14.6 mm wall	75 x 7.2 mm (4 x 1.8 layers)	1 & 2	150 mm	EI 240 U/U
Diameter 161 mm, wall thickness 4.9-14.6 mm to diameter 200 mm, wall thickness 4.9-18.2 mm*	75 x 10.8 mm (6 x 1.8 layers)	1 & 2	120 mm	EI 240 C/C
Diameter 201 mm, wall thickness 4.9-18.2 mm to diameter 315 mm, wall thickness 7.7-28.6 mm*	75 x 18 mm (10 x 1.8 layers)	N/A	150 mm	EI 60 C/C
315 mm diameter / 7.7 mm wall	75 x 18 mm (10 x 1.8 layers)	N/A	150 mm	EI 180 C/C
315 mm diameter / 7.7-28.6 mm wall	75 x 18 mm (10 x 1.8 layers)	1	150 mm	EI 60 C/C

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Services	Wrap	Permitted configuration for seal separation	Mortar depth	Classification
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>				
Diameter 126 mm, wall thickness 3.9-11.4 mm to diameter 160 mm, wall thickness 14.6*	75 x 18 mm (10 x 1.8 layers)	N/A	150 mm	<b>E 240 U/U, EI 120 U/U</b>
160 mm diameter / 14.6 mm wall	75 x 7.2 mm (4 x 1.8 layers)	1 & 2	150 mm	<b>E 240 U/U, EI 120 U/U</b>
Diameter 161 mm, wall thickness 4.9-14.6 mm to diameter 315 mm, wall thickness 9.7-18.7 mm*	75 x 18 mm (10 x 1.8 layers)	N/A	150 mm	<b>EI 60 C/C</b>

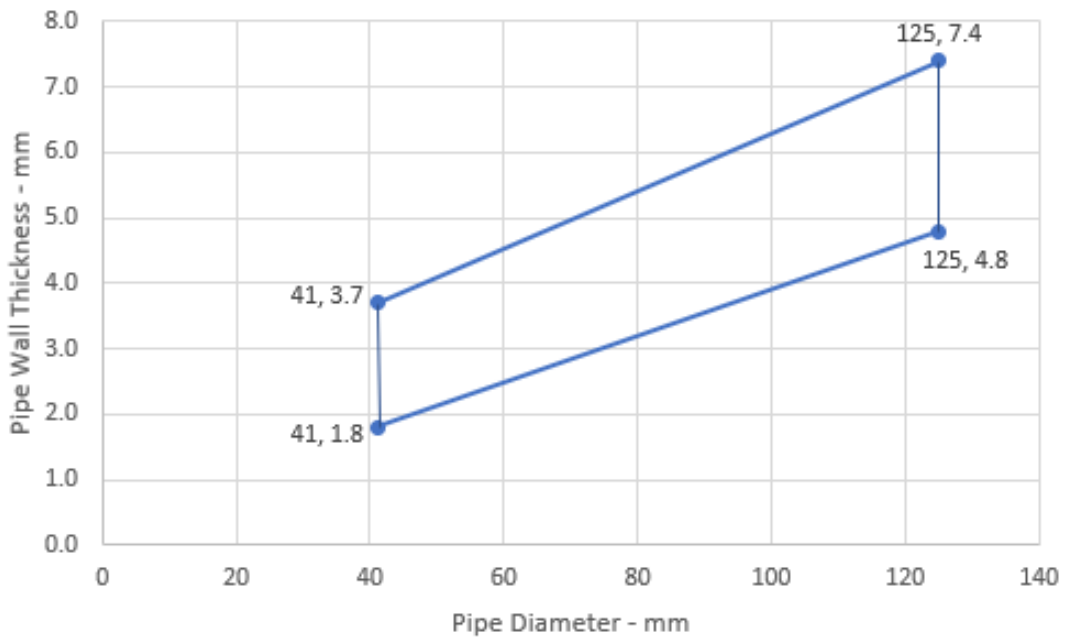
\* Typical pipe diameters shown, see below graph for intermediate sizes

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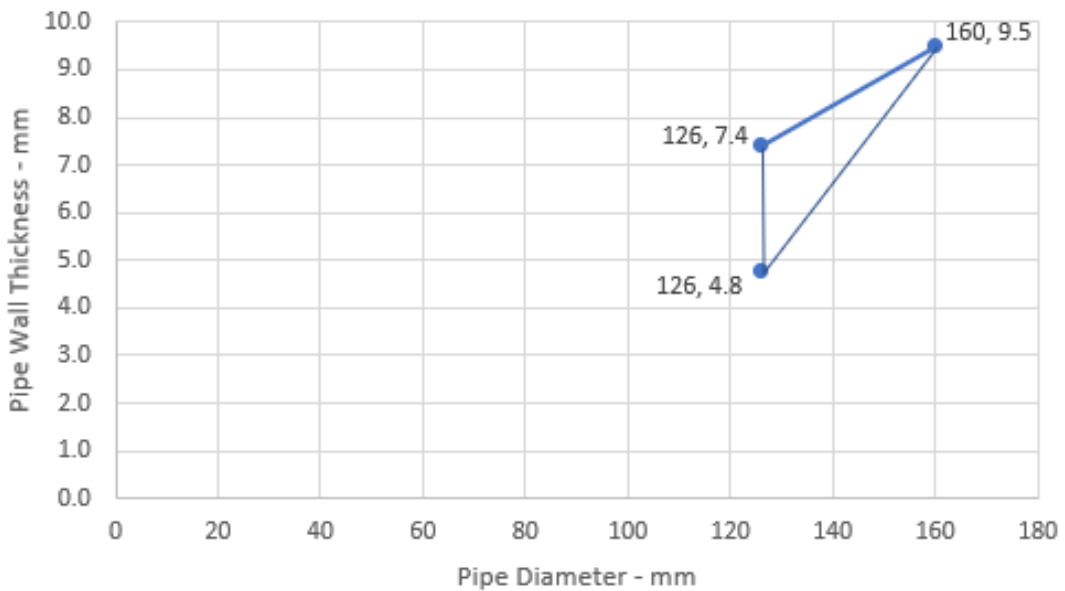
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### PVC-U Pipes 41-125 mm Diameter - EI 60 U/U



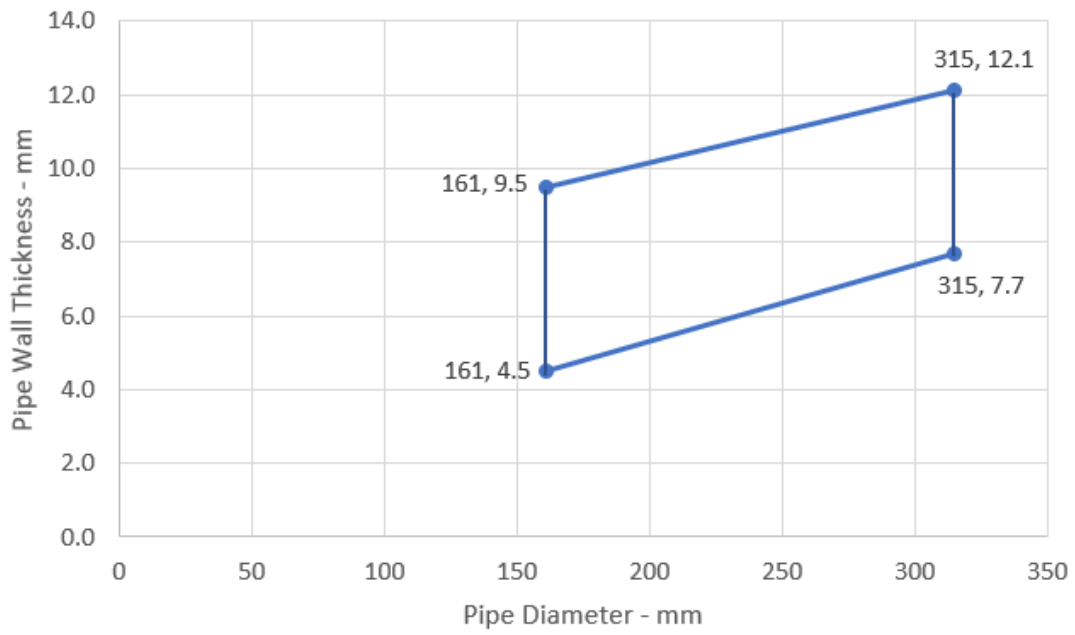
### PVC-U Pipes 126-160 mm Diameter - E 120 U/U, EI 30 U/U



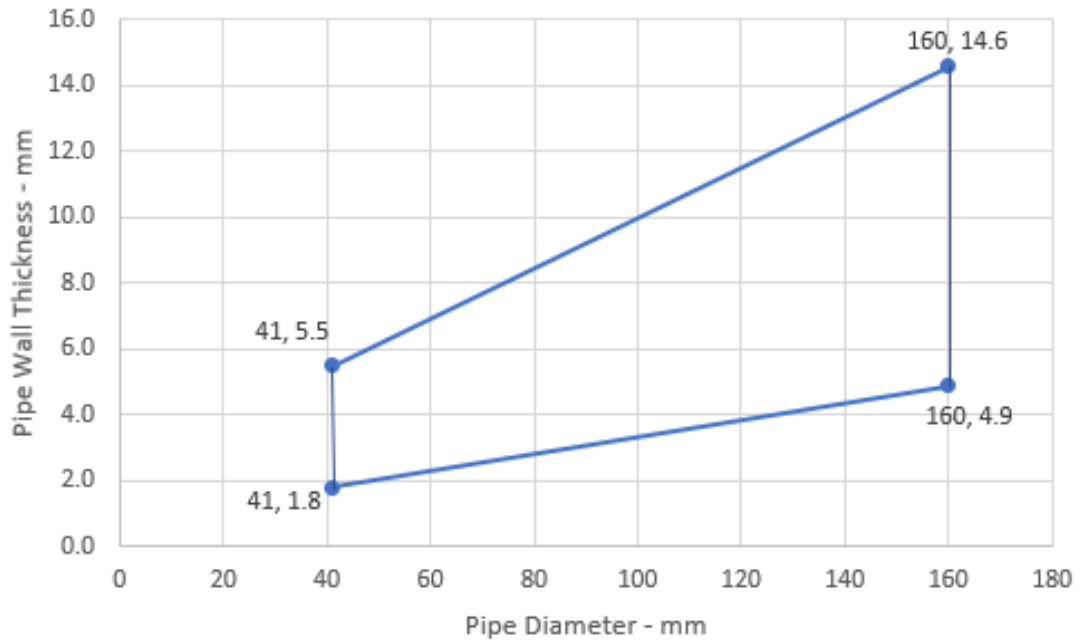
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### PVC-U Pipes - EI 90 C/C



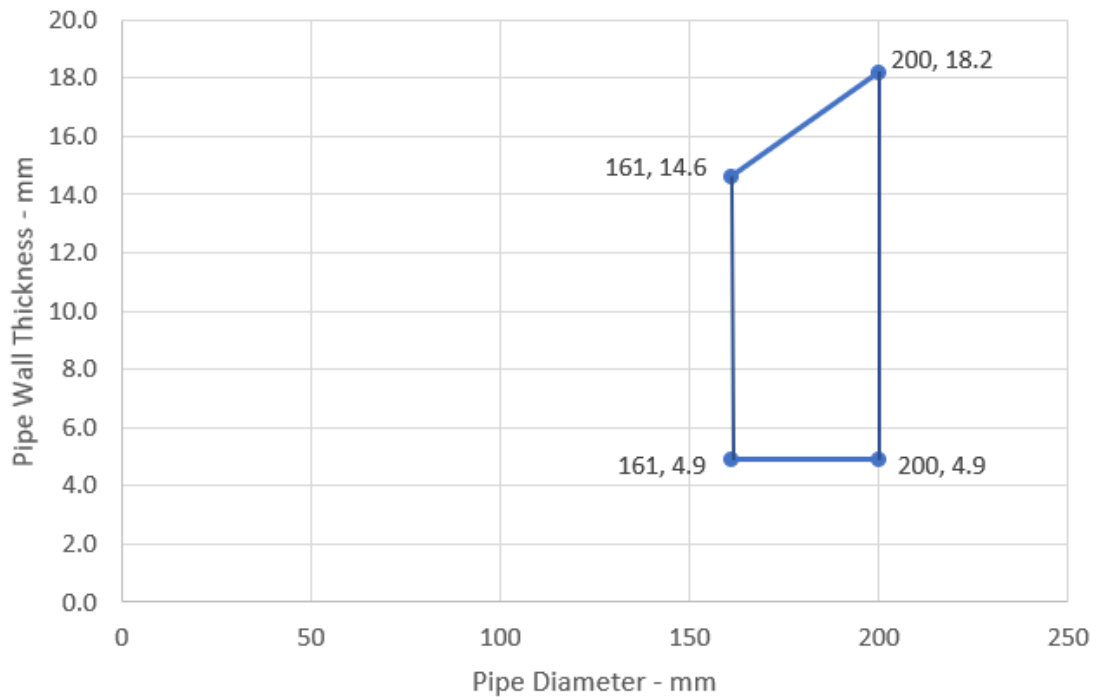
### PP Pipes 41-160 mm Diameter - EI 120 U/C



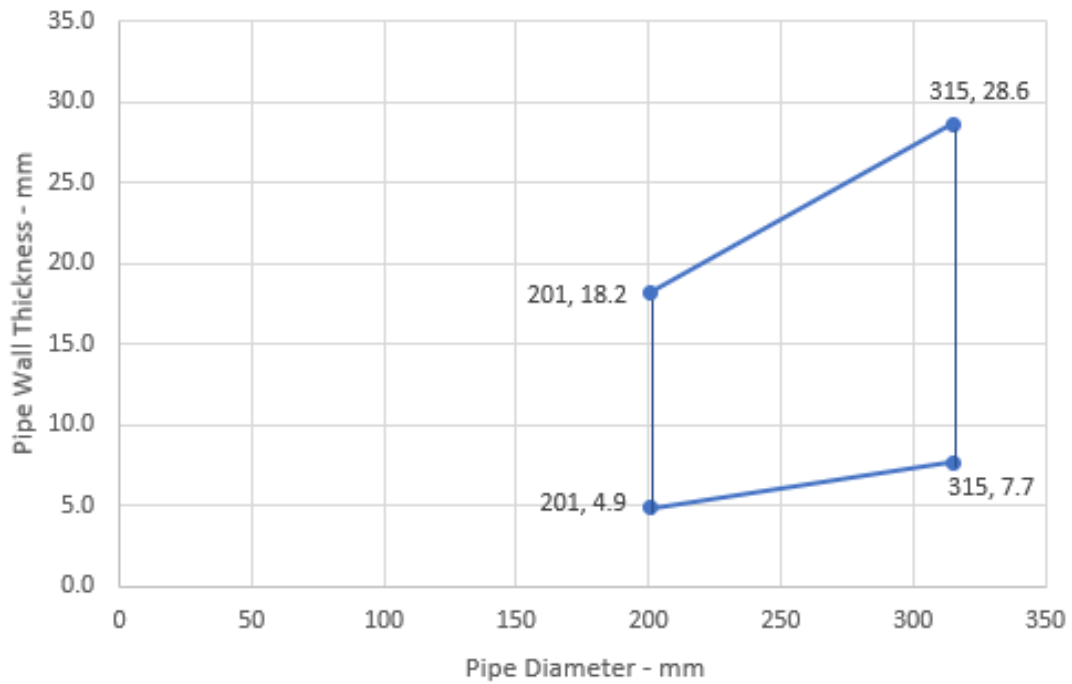
#### Declaration of Performance

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### PP Pipes - EI 240 C/C



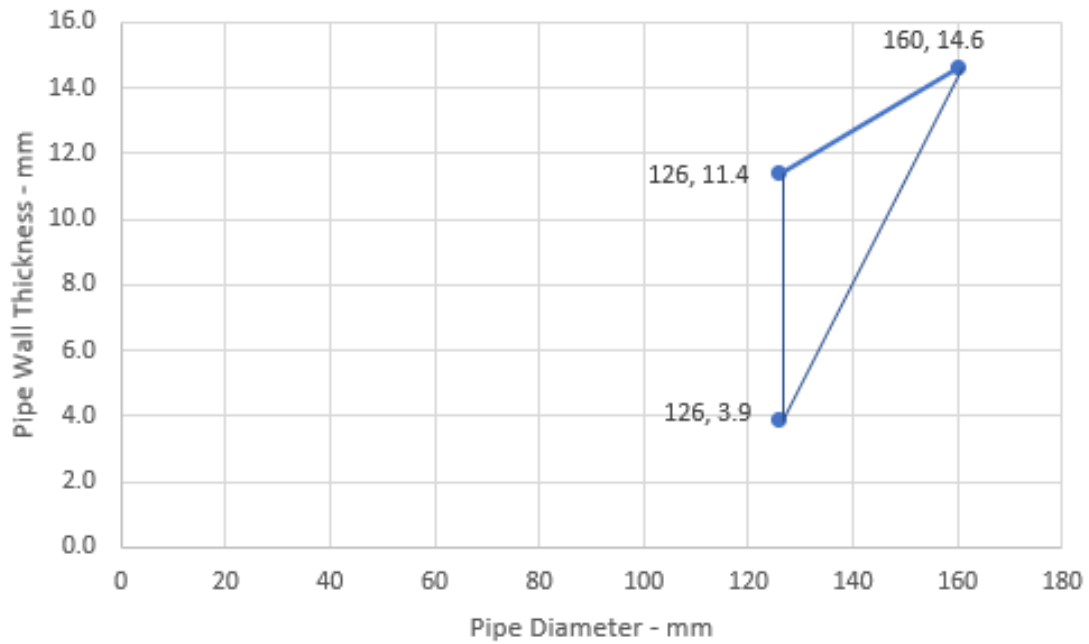
### PP Pipes - EI 60 C/C



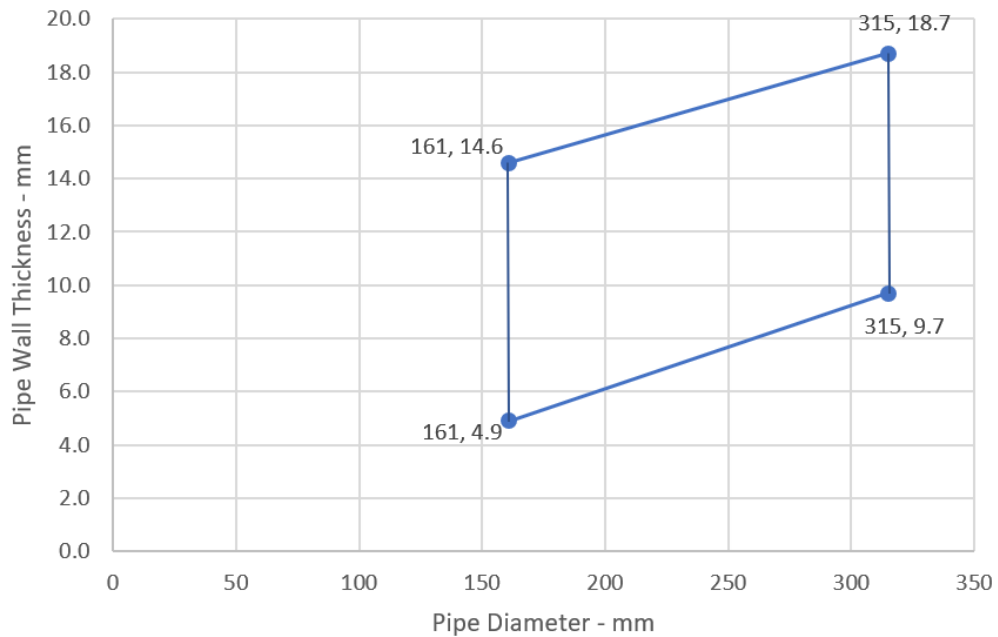
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PE Pipes 126-160 mm Diameter -  
E 240 U/U, EI 120 U/U



PE Pipes - EI 60 C/C



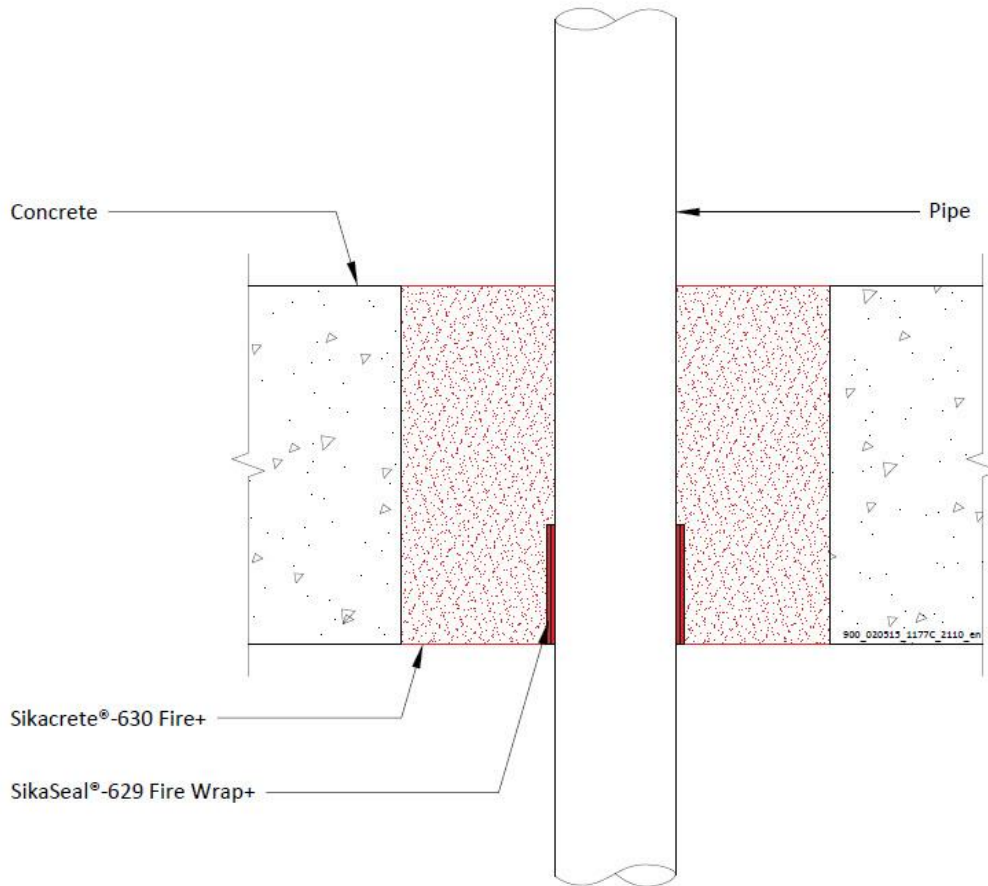
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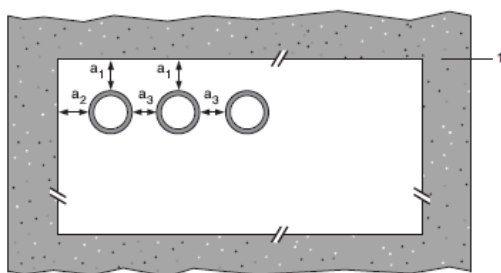
## A.2.7 SikaSeal-629 Fire Wrap+ penetration seals, in 150 mm thick Sikacrete-630 Fire+ seals in rigid floors, with plastic pipes

**Penetration Seal:** Plastic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges and from other services), with 150 mm Sikacrete-630 Fire+ to the bottom surface of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted to the bottom of the seal, as indicated below. Maximum seal size 2400 mm x 1200 mm.

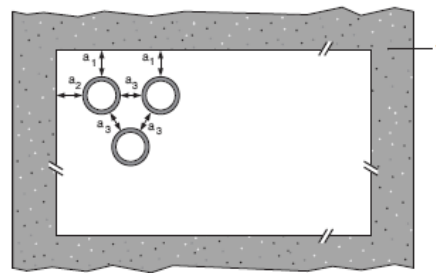
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

**Declaration of Performance**

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### A.2.7.1

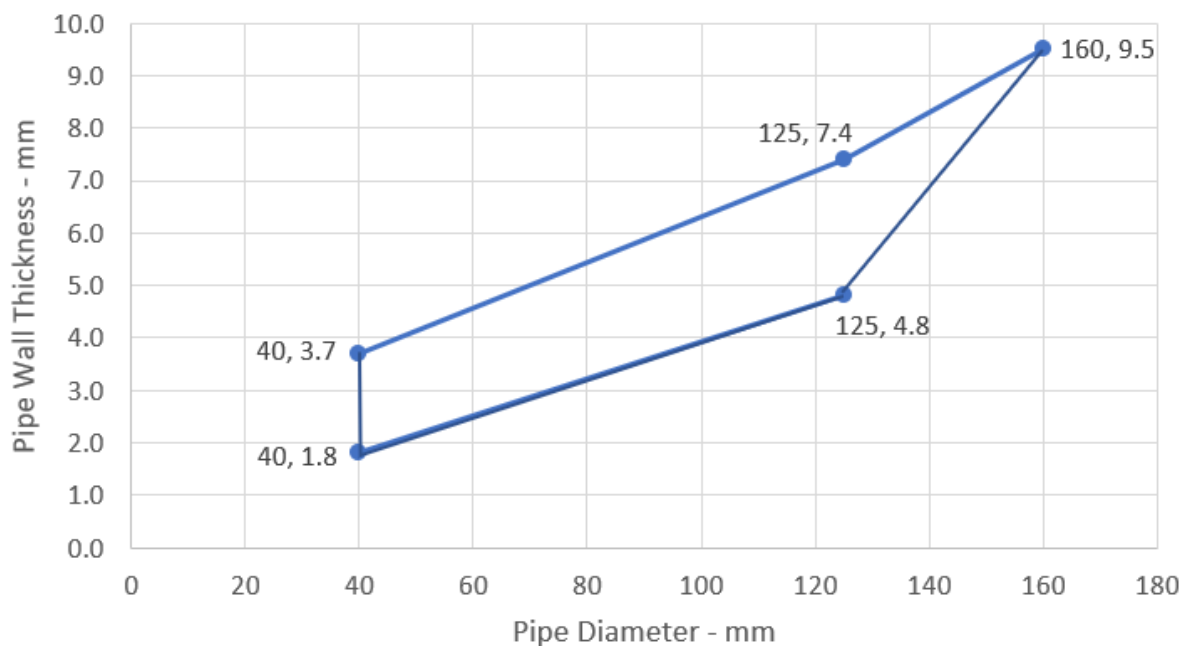
Services	Wrap	Permitted configuration for seal separation	Classification
<b>PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1</b>			
Up to 40 mm diameter/1.8-3.7 mm wall*	50 x 1.8	1 & 2	EI 120 U/U
Up to 125 mm diameter / 4.8-7.4 mm wall*	50 x 7.2 mm		EI 60 U/U
Up to 160 mm diameter/9.5 mm wall*	75 x 7.2 mm		E 120 U/U, EI 30 U/U
<b>PP pipe according to EN 1451-1</b>			
Up to 40 mm diameter/1.8-5.5 mm wall*	50 x 1.8	1 & 2	EI 120 U/U
Up to 125 mm diameter / 11.4 mm wall*	50 x 7.2 mm		EI 240 U/U
Up to 160 mm diameter/14.6 mm wall*	75 x 7.2 mm		EI 240 U/U
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>			
Up to 40 mm diameter/2.4-3.7 mm wall*	50 x 1.8 mm	1 & 2	EI 240 U/U
Up to 110 mm diameter/3.4-10 mm wall*	75 x 5.4 mm		EI 240 U/U
Up to 125 mm diameter/11.4 mm wall*	50 x 7.2 mm		EI 240 U/U
Up to 160 mm diameter/4.9-14.6 mm wall*	75 x 7.2 mm		EI 120 U/U

\* Typical pipe diameters shown, see below graph for intermediate sizes

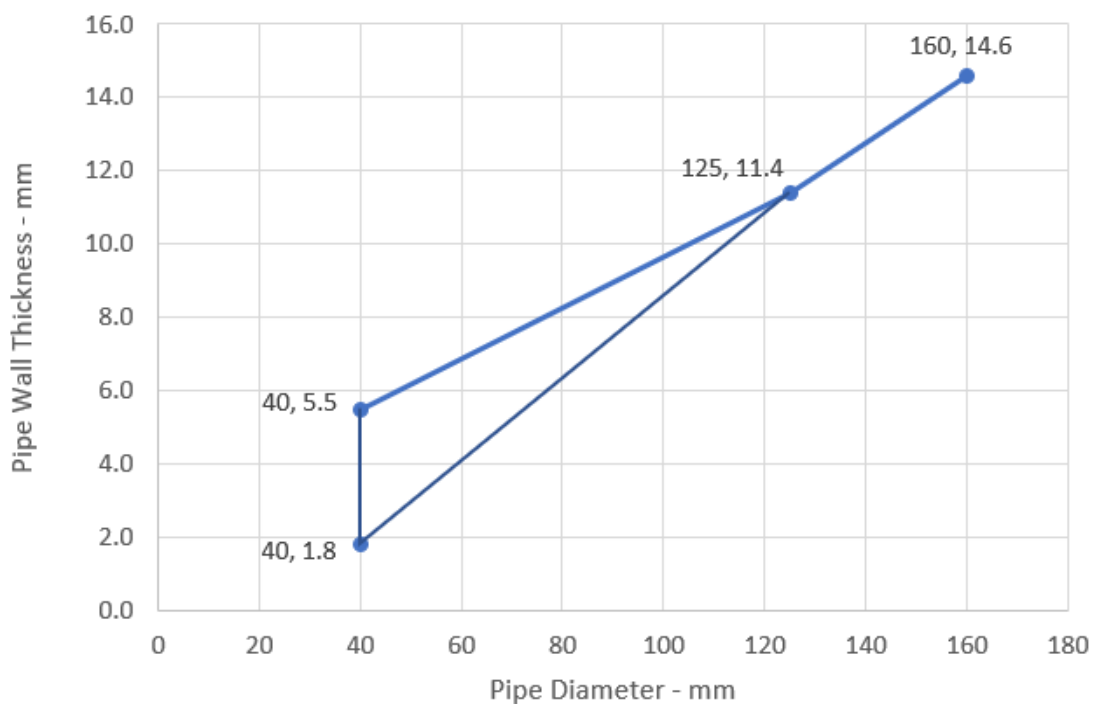
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### PVC-U Pipes - E 60 U/U, EI 30 U/U



### PP Pipes - E 120 U/U

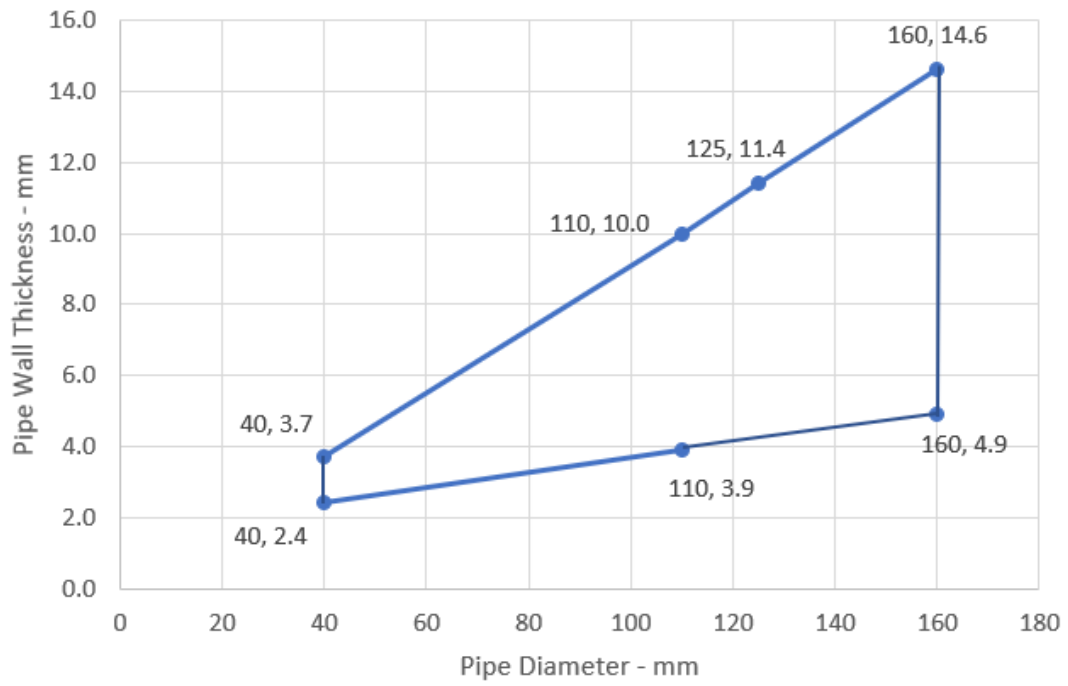


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## PE Pipes - EI 120 U/U



### Declaration of Performance

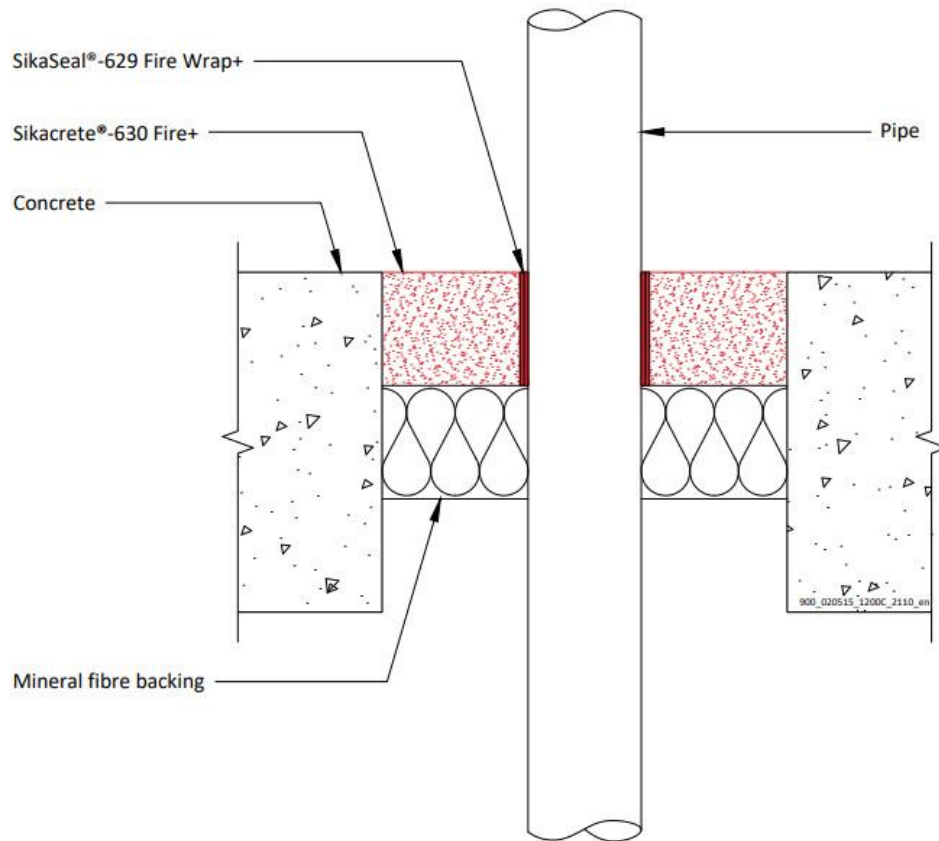
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**A.2.8 SikaSeal-629 Fire Wrap+ penetration seals, in 50 mm deep Sikacrete-630 Fire+ seals, backed with 50 mm stone wool, in rigid floors, with plastic pipes**

**Penetration Seal:** Plastic pipes (single) fitted at any position within the aperture (min. separation 30 mm from seal edges and 30 mm from other services), with 50 mm Sikacrete-630 Fire+ flush with the top of floor, backed with 50 mm stone wool 150 kg/m<sup>3</sup>. SikaSeal-629 Fire Wrap+ are required to be fitted into the mortar seal.

Construction details:



**A.2.8.1**

Services	Wrap	Maximum aperture	Classification
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>			
110 mm diameter / 4.3 mm wall	50 x 2 mm	2400 x 1200 mm	<b>EI 60 C/C</b>

**Declaration of Performance**

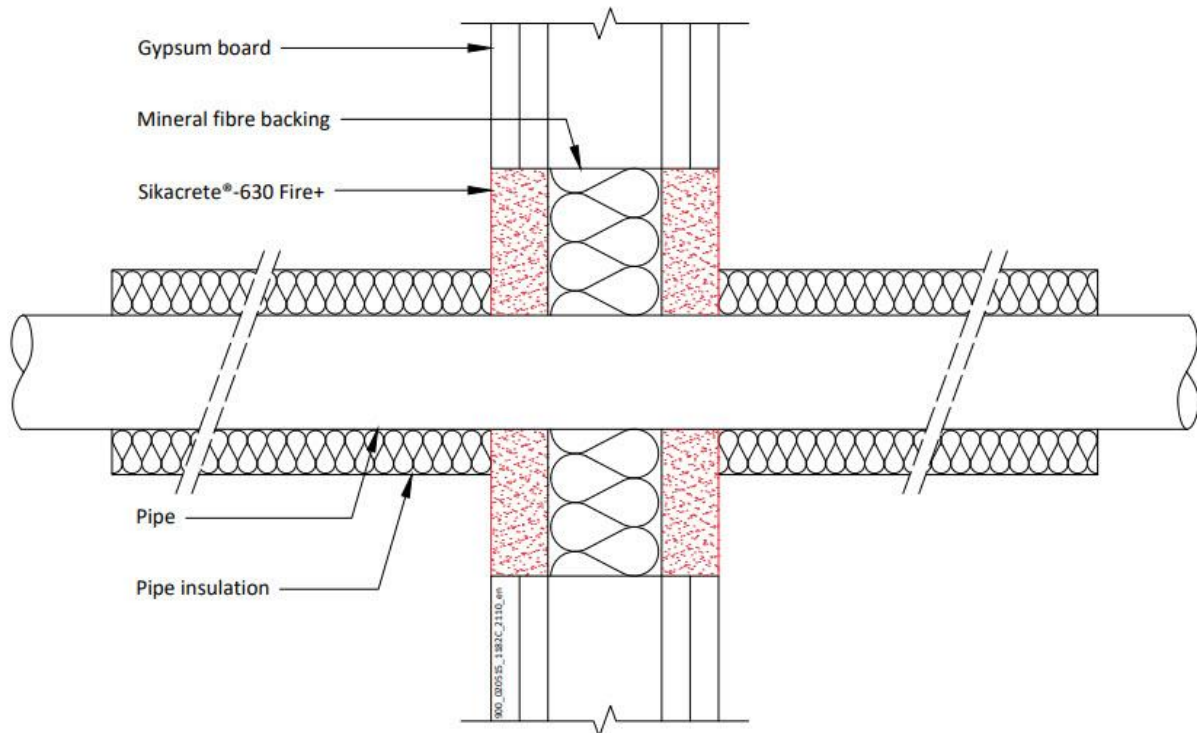
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### A.3 Flexible and rigid wall constructions with a minimum thickness 100 mm

#### A.3.1 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in seals comprising 25 mm deep Sikacrete-630 Fire+ to both faces backed with 50 mm mineral fibre board, installed within flexible or rigid wall

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges), with 25 mm Sikacrete-630 Fire+ to both sides of the wall, backed with 50 mm stone wool board 150 kg/m<sup>3</sup> or 50 mm Sikacrete-630 Fire+ to both sides of the wall without backing\*. SikaSeal-629 Fire Wrap+ are required to be fitted to both faces of the seal.

Construction details:



\* Maximum seal size of 2400 mm wide x 1200 mm high

#### Declaration of Performance

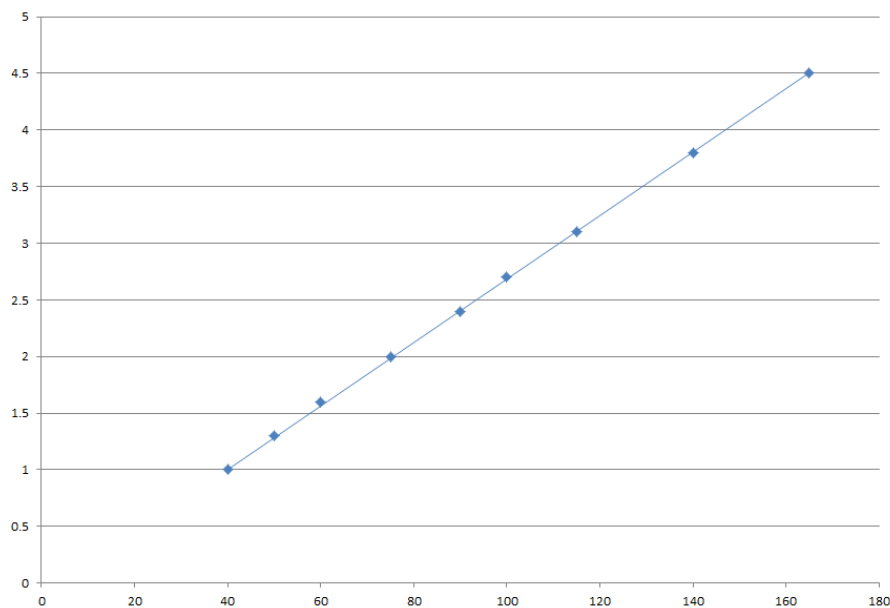
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### A.3.1.1

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall	2 off 50 x 1.8 mm SikaSeal-629 Fire Wrap+, one fitted flush to each face of seal		EI 120 C/U
40 mm diameter/1-14.2 mm wall*	2 off 50 x 3.6 mm SikaSeal-629 Fire Wrap+, one fitted flush to each face of seal	13 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 C/U, EI 60 C/U
50 mm diameter/1.3-14.2 mm wall*			
60 mm diameter/1.6-14.2 mm wall*			
75 mm diameter/2-14.2 mm wall*			
90 mm diameter/2.4-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3.1-14.2 mm wall*			
140 mm diameter/3.8-14.2 mm wall*			
165 mm diameter/ 4.5-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

Pipe diameter vs Wall thickness



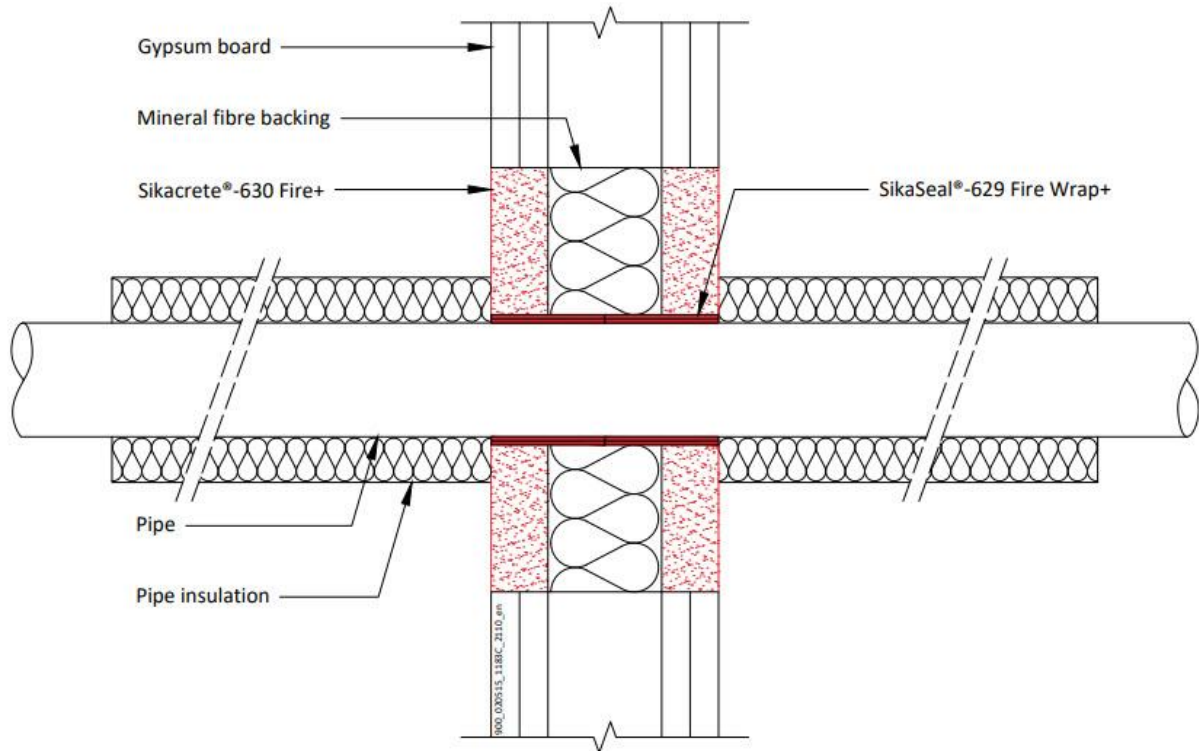
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**A.3.2 SikaSeal-629 Fire Wrap+ penetration seal for composite pipes, in seals comprising 25 mm deep Sikacrete-630 Fire+ to both faces backed with 50 mm mineral fibre board, installed within flexible or rigid wall**

**Penetration Seal:** 500 mm (min.)\* LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic ( and composite) pipes (single) fitted at any position within the aperture (min. separation 30 mm from seal edges and from other services), with 25 mm Sikacrete-630 Fire+ to both sides of the wall backed with 50 mm stone wool board 150 kg/m<sup>3</sup>. Maximum seal size 2400 mm wide x 1200 mm high

Construction details:



**A.3.2.1**

Services	Insulation	Classification
Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD) pipe	Minimum 20 mm stone wool, minimum 80 kg/m <sup>3</sup>	EI 120 C/C
16 mm diameter/2.25 mm wall		
20 mm diameter/2.5 mm wall		
26 mm diameter/3 mm wall		
32 mm diameter/3 mm wall		
40 mm diameter/3.5 mm wall		
50 mm diameter/4 mm wall		
63 mm diameter/4.5 mm wall		
75 mm diameter/4.7 mm wall		

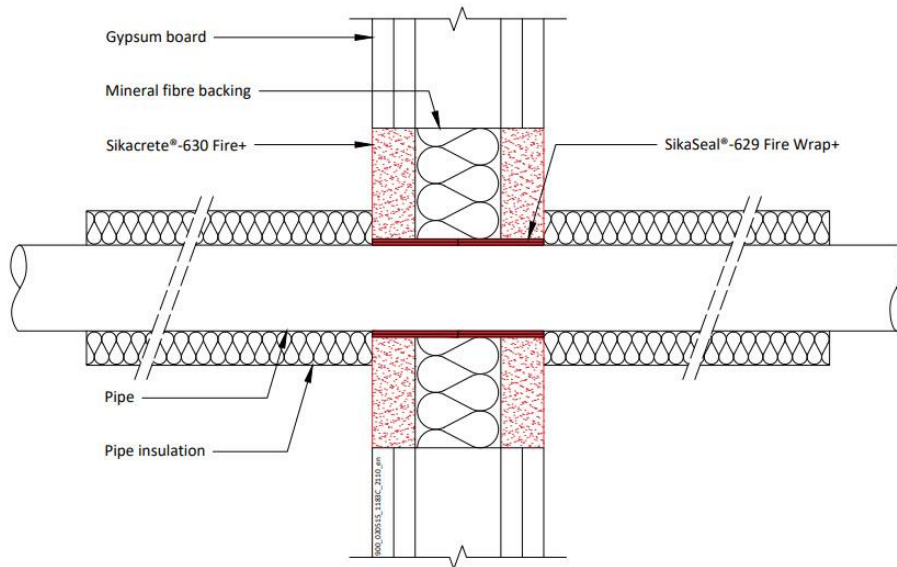
**Declaration of Performance**

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**A.3.3 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal & composite pipes, in seals comprising 25 mm deep Sikacrete-630 Fire+ to both faces backed with 50 mm mineral fibre board, installed within flexible or rigid wall**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic and composite pipes fitted at any position within the aperture (min. separation 25 mm from seal edges), with 25 mm Sikacrete-630 Fire+ to both sides of the wall, backed with 25 mm stone wool 150 kg/m<sup>3</sup>\*. SikaSeal-629 Fire Wrap+ are required to be fitted to both faces of the seal. Maximum seal size 2400 mm wide x 1200 mm long

Construction details:



**A.3.3.1**

Services	Wrap	Insulation	Classification
Copper pipe			
12-54 mm diameter/1-1.2 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 C/C
Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD pipe)			
16 mm diameter/2.25 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 C/C
20 mm diameter/2.5 mm wall			
26 mm diameter/3 mm wall			
32 mm diameter/3 mm wall			
40 mm diameter/3.5 mm wall			
50 mm diameter/4 mm wall			
63 mm diameter/4.5 mm wall			
75 mm diameter/4.7 mm wall			

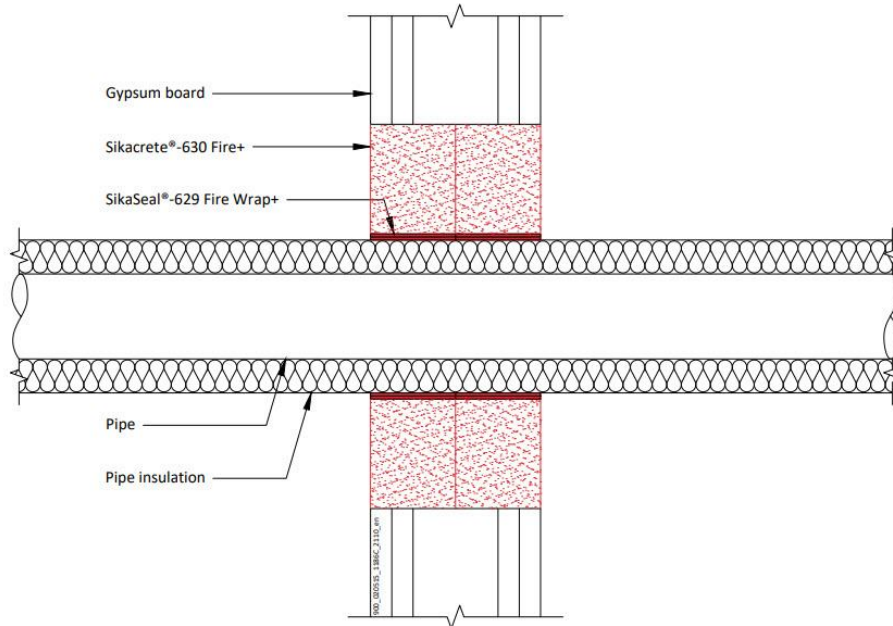
**Declaration of Performance**

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**A.3.4 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in seals comprising 50 mm deep Sikacrete-630 Fire+ to both faces, installed within flexible or rigid wall**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges), 50 mm Sikacrete-630 Fire+ to both sides of the wall without backing\*. SikaSeal-629 Fire Wrap+ are required to be fitted to both faces of the seal.

Construction details:



\* Maximum seal size of 2400 mm wide x 1200 mm high

**A.3.4.1**

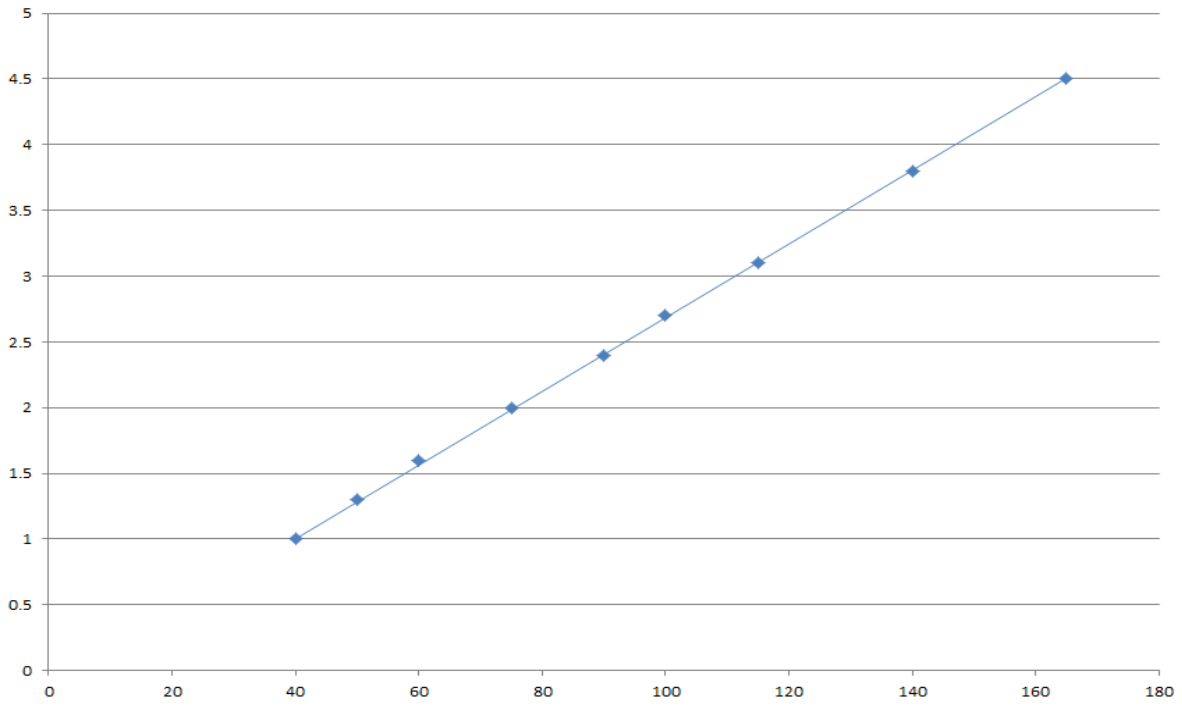
Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall*	2 off 50 x 3.6 mm SikaSeal-629 Fire Wrap+, one fitted flush to each face of seal	13 -32 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	<b>E 120 C/U, EI 60 C/U</b>
50 mm diameter/1.3-14.2 mm wall*			
60 mm diameter/1.6-14.2 mm wall*			
75 mm diameter/2-14.2 mm wall*			
90 mm diameter/2.4-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3.1-14.2 mm wall*			
140 mm diameter/3.8-14.2 mm wall*			
165 mm diameter/ 4.5-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

**Declaration of Performance**

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**Pipe diameter vs Wall thickness**



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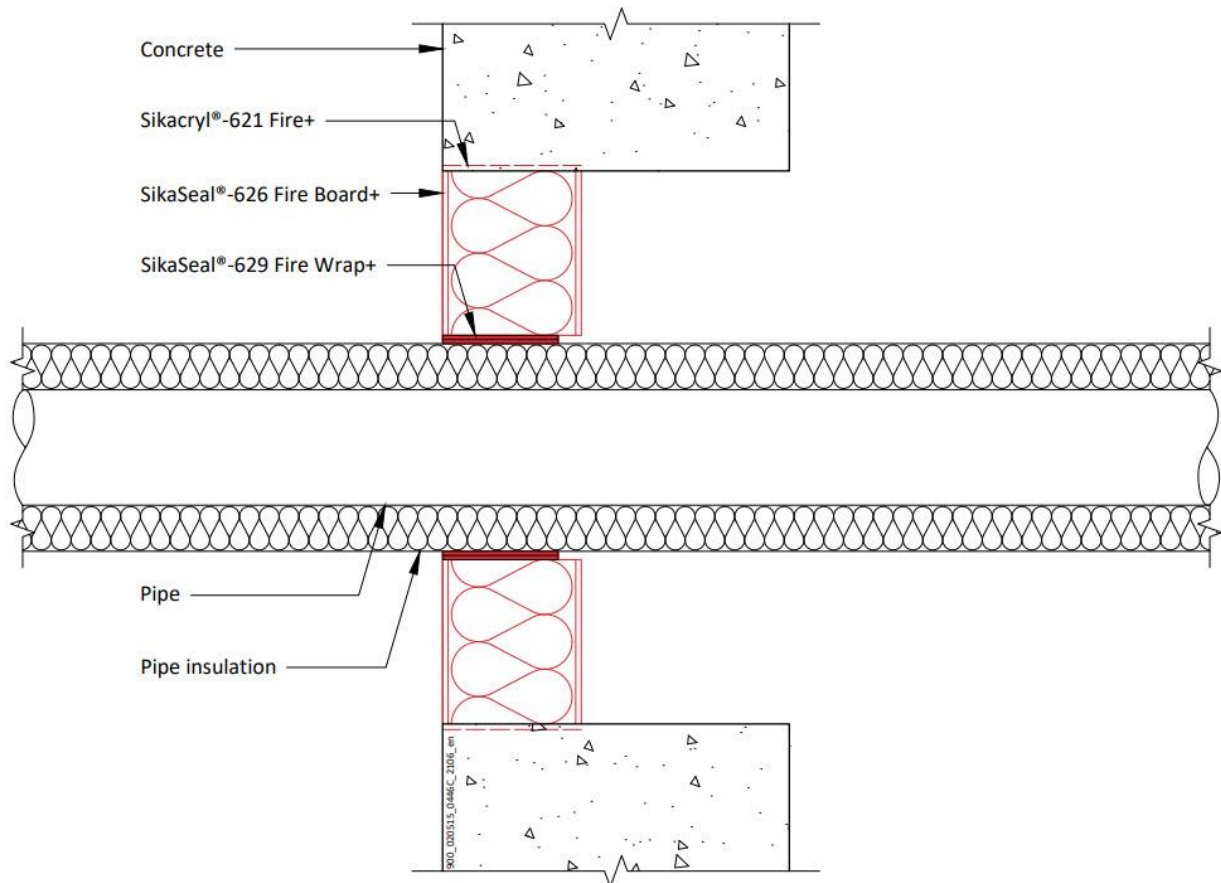


## A.4 Rigid wall constructions with floor thickness of minimum 150 mm

### A.4.1 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 1x SikaSeal-626 Fire Board+ 2-S seals, in rigid walls

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 60 mm SikaSeal-626 Fire Board+ 2-S to either side of the wall (or anywhere in between). SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation.

Construction details:



#### A.4.1.1

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
165 mm diameter/ 4.5-14.2 mm wall	50 x 1.8 mm SikaSeal-629 Fire Wrap+ fitted centrally	9-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 U/C, E 120 C/U, E 120 C/C, EI 45 U/C, EI 45 C/U, EI 45 C/C

#### Declaration of Performance

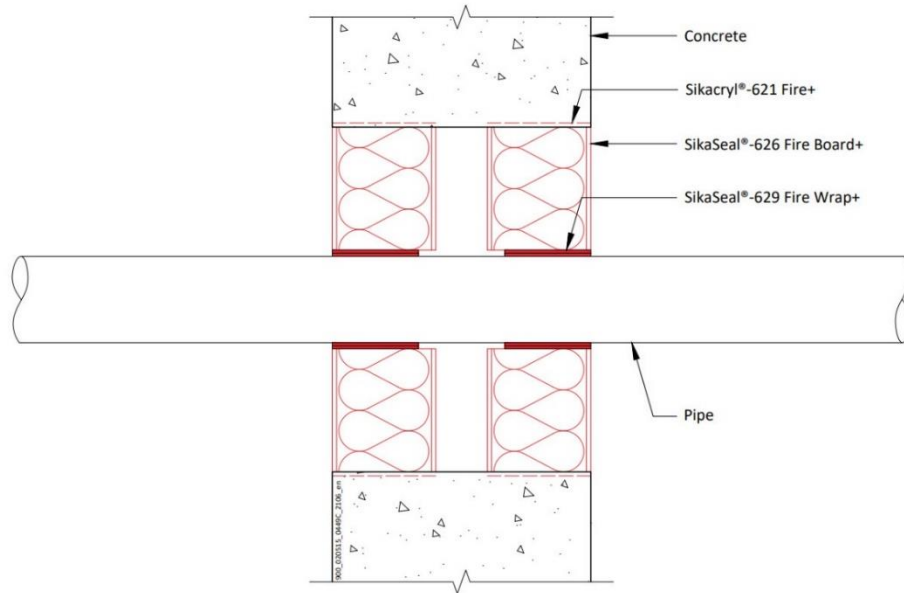
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#### A.4.2 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 2-S seals, in rigid walls

**Penetration Seal:** Plastic pipes fitted at any position within the aperture, with 60 mm SikaSeal-626 Fire Board+ 2-S to both sides of the wall. SikaSeal-629 Fire Wrap+ are required to be fitted around pipes. Min. 30 mm separation between pipes.

Construction details:



##### A.4.2.1

Services	Wrap	Classification
<b>PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1</b>		
Up to 40 mm diameter / 1.9-3.0 mm wall	50 x 1.8 mm	EI 240 U/C
Up to 110 mm diameter / 2.7-6.6 mm wall	50 x 3.6 mm	
Up to 125 mm diameter / 4.7-7.4 mm wall	50 x 7.2 mm	
Up to 160 mm diameter / 4.0-9.5 mm wall*	50 x 10.8 mm	
Up to 315 mm diameter/7.7-12.1 mm wall thickness*#	75 x 18 mm	EI 120 C/C
Up to 400 mm diameter/9.8-15.3 mm wall thickness*#	75 x 28.8 mm	EI 120 C/C
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>		
Up to 40 mm diameter / 2.4-4.6 mm wall	50 x 1.8 mm	EI 240 U/C
Up to 110 mm diameter / 3.4-10.0 mm wall	50 x 3.6 mm	
Up to 125 mm diameter / 3.9-7.4 mm wall	50 x 7.2 mm	
Up to 160 mm diameter / 4.9-9.5 mm wall	50 x 10.8 mm	
<b>PP pipe according to EN 1451-1</b>		
Up to 40 mm diameter / 1.8-5.5 mm wall	50 x 1.8 mm	EI 240 U/C
Up to 110 mm diameter / 2.7-10.0 mm wall	50 x 3.6 mm	EI 240 C/C
Up to 125 mm diameter / 3.1-11.4 mm wall	50 x 7.2 mm	
Up to 160 mm diameter / 4.9-14.6 mm wall	50 x 10.8 mm	

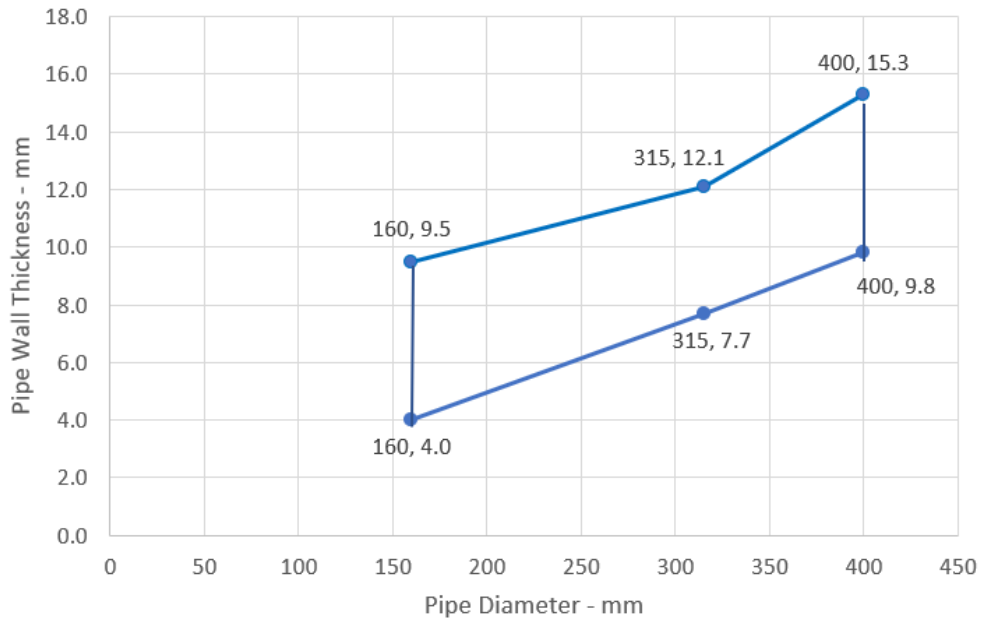
\* Typical pipe diameters shown, see below graph for intermediate sizes.

# Configuration 1 & 2

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### PVC-U Pipes - EI 120 C/C



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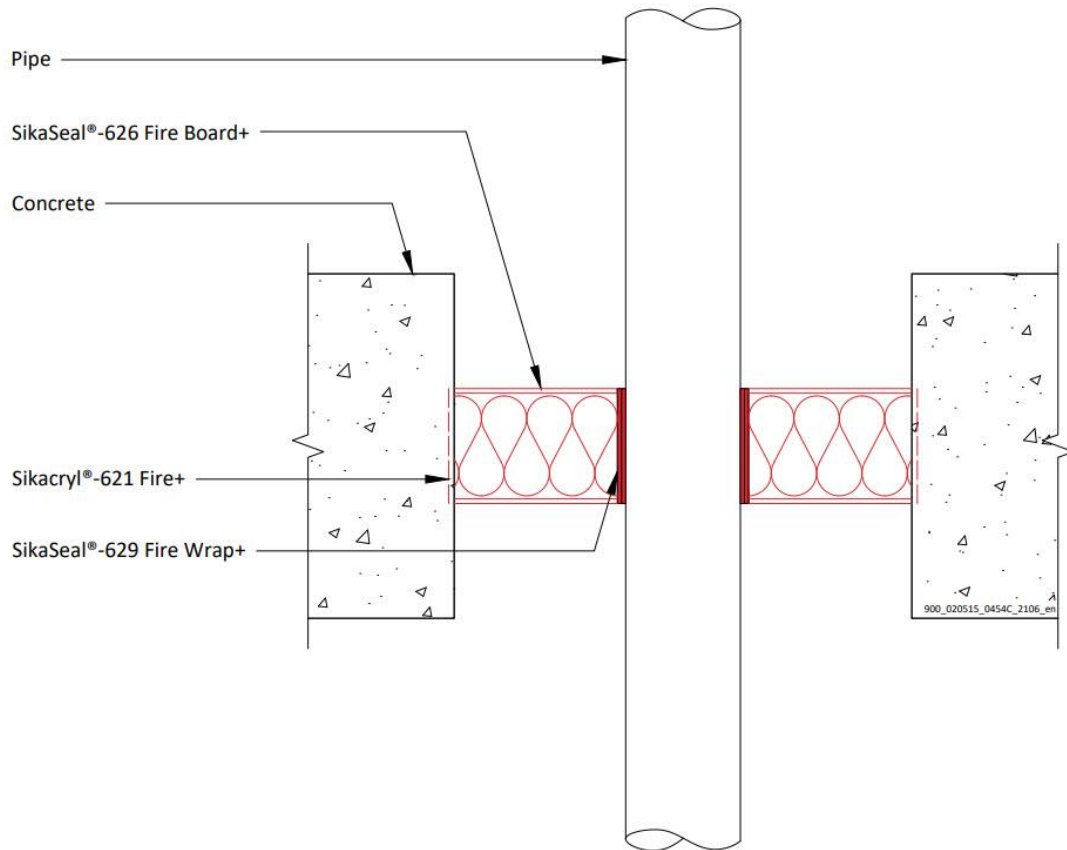


**A.5 Rigid floor constructions with floor thickness of minimum 150 mm**

**A.5.1 SikaSeal-629 Fire Wrap+ penetration seal for plastic pipes, in 1x SikaSeal-626 Fire Board+ 2-S, in rigid floors**

**Penetration Seal:** Combustible pipes fitted at any position within the aperture, with 50 mm SikaSeal-626 Fire Board+ 2-S at mid-depth of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation. Maximum aperture size 2400 mm x 1200 mm

Construction details:



**A.5.1.1**

Services	Wrap	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1* 110 mm diameter/ 3.4mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+	EI 90 U/C, EI 90 C/C

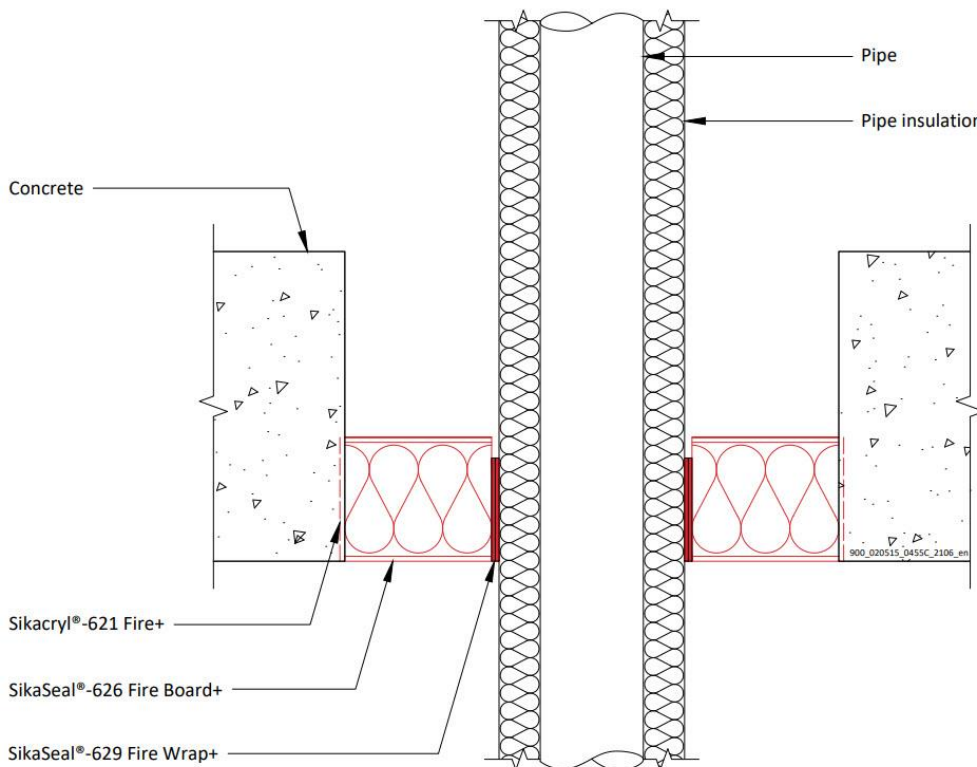
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### A.5.2 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 1x SikaSeal-626 Fire Board+ 2-S, in rigid floors

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 60 mm SikaSeal-626 Fire Board+ 2-S to either side of the floor (or anywhere in between). SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation. Maximum aperture size 2400 mm x 1200 mm

Construction details:



#### A.5.2.1

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
165 mm diameter/ 4.5-14.2 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted at bottom of seal	13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	E 90 C/U, EI 45 C/U
		19 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	EI 90 C/U

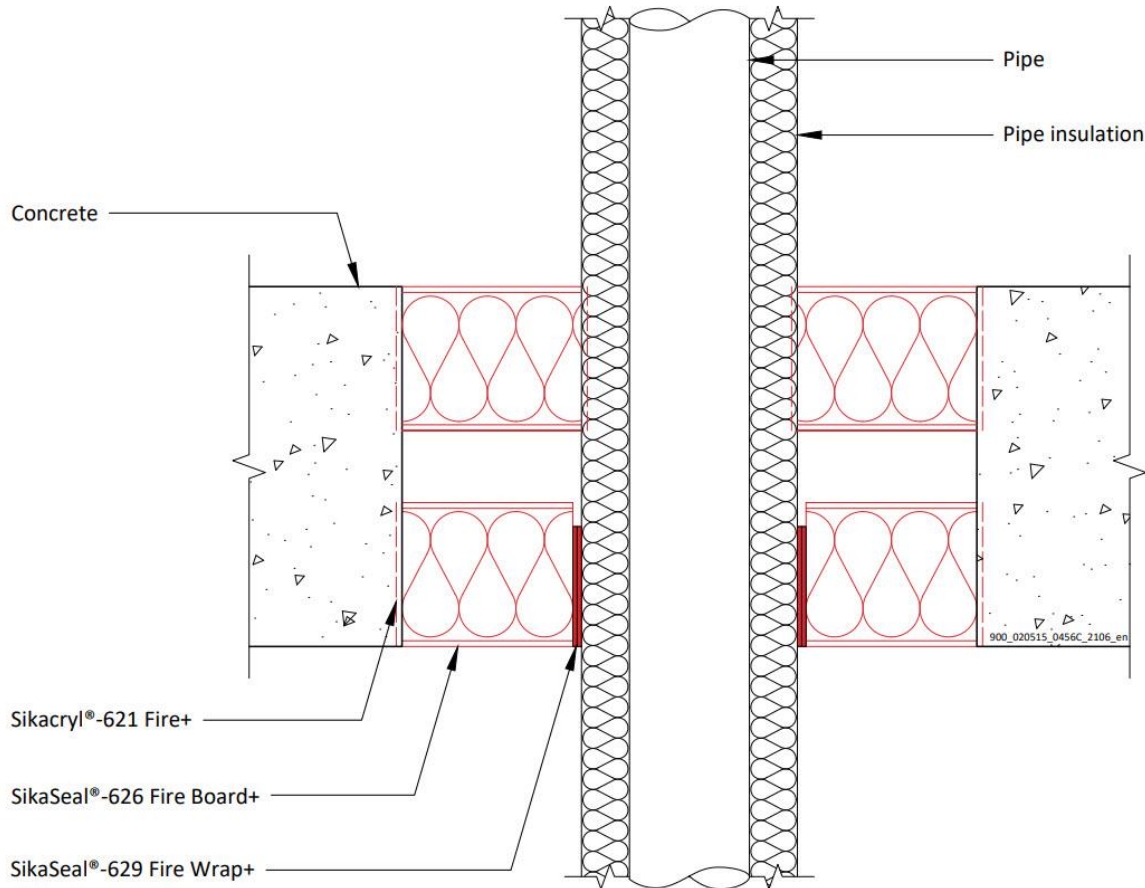
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### A.5.3 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes in 2x SikaSeal-626 Fire Board+ 2-S (separated), in rigid floors

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 60 mm SikaSeal-626 Fire Board+ 2-S to both sides of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation at the soffit. Maximum aperture size 2400 mm x 1200 mm

Construction details:



#### A.5.3.1 Double side penetration seal with pipes

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/ 1-14.2 mm wall	50 x 1.8 mm SikaSeal-629 Fire Wrap+	13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 180 C/U, EI 120 C/U</b>

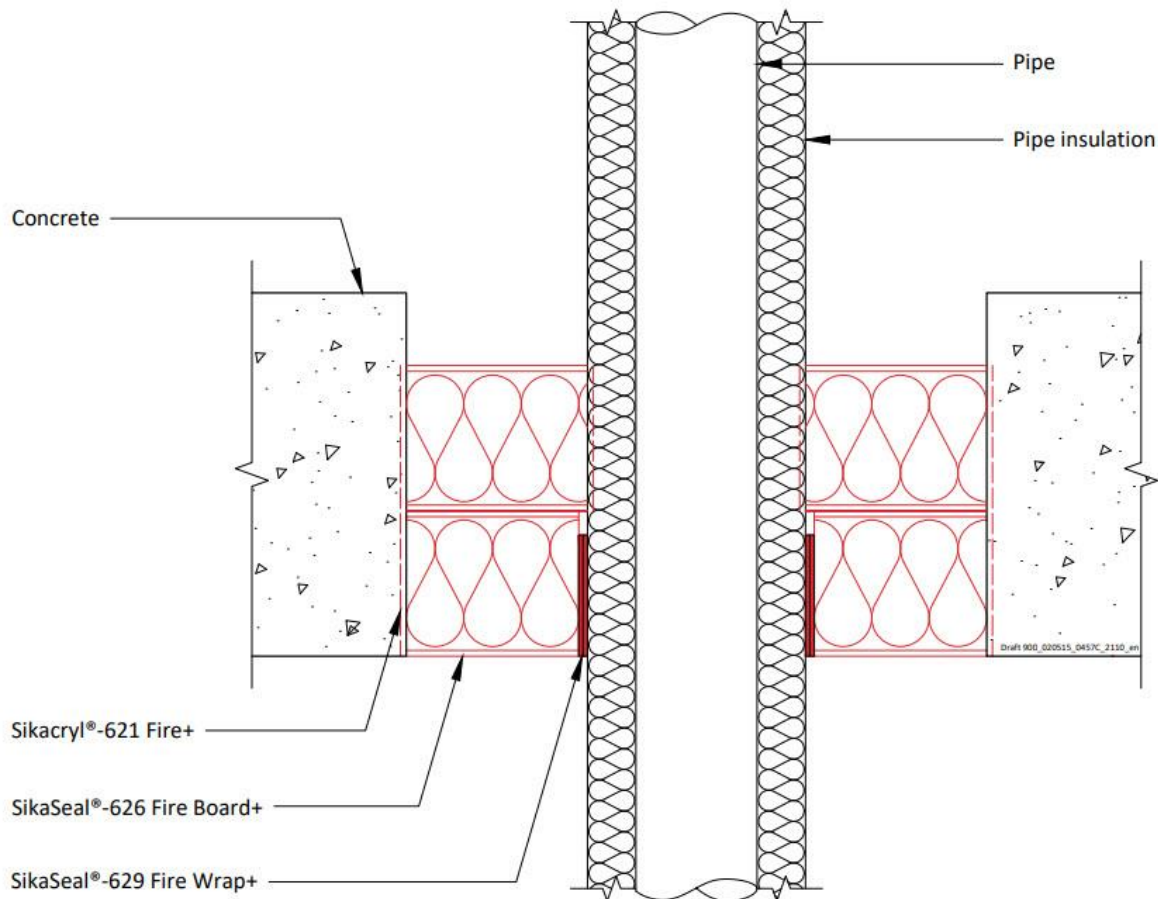
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**A.5.4 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 2-S (back to back), in rigid floors**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic and composite pipes fitted at any position within the aperture, with two layers of 60 mm SikaSeal-626 Fire Board+ 1-S installed together to either side of the floor (or anywhere in between). SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation at the bottom of the seal. Maximum aperture size 2400 mm x 1200 mm

Construction details:



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### A.5.4.1

Services	Wrap	Insulation	Classification
Copper pipe			
12-54 mm diameter/1-1.2 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9-13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	E240 C/C, EI 60 C/C
12-54 m diameter/1-1.2 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	E 180 C/C, EI 45 C/C
· Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD pipe)			
· 16 mm diameter/2.25 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	EI 120 C/C
· 20 mm diameter/2.5 mm wall			
· 26 mm diameter/3 mm wall			
· 32 mm diameter/3 mm wall			
· 40 mm diameter/3.5 mm wall			
· 50 mm diameter/4 mm wall			
· 63 mm diameter/4.5 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	E 60 C/C, EI 45 C/C
· 75 mm diameter/4.7 mm wall			
· 16 mm diameter/2.25 mm wall			
· 20 mm diameter/2.5 mm wall			
· 26 mm diameter/3 mm wall			
· 32 mm diameter/3 mm wall			
· 40 mm diameter/3.5 mm wall			
· 50 mm diameter/4 mm wall			
· 63 mm diameter/4.5 mm wall			
· 75 mm diameter/4.7 mm wall			

#### Declaration of Performance

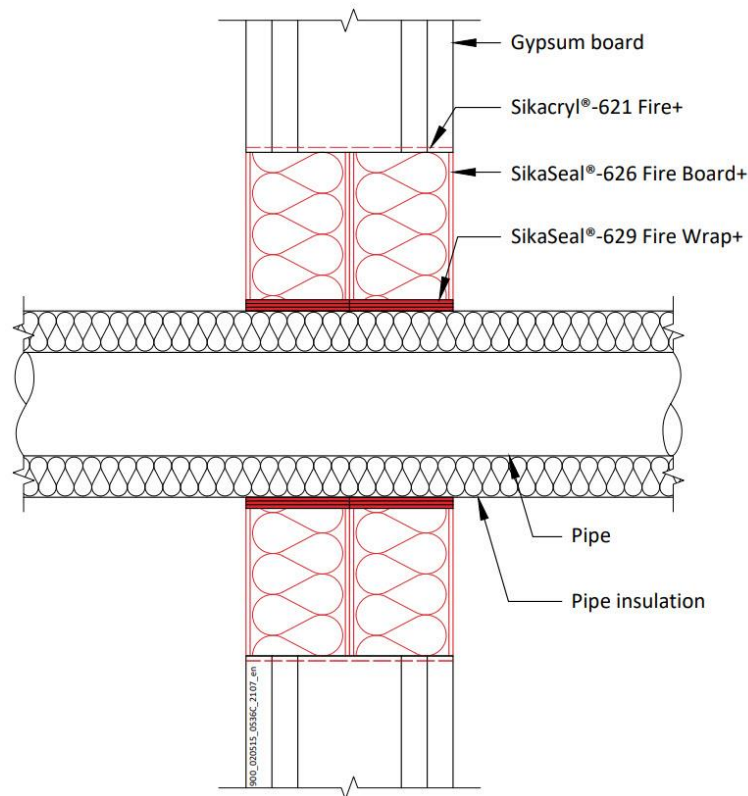
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## A.6 Flexible wall constructions according to 2. 1)

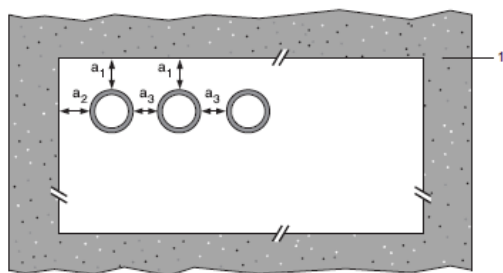
### A.6.1 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 1-S in flexible or rigid walls

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 50 mm SikaSeal-626 Fire Board+ 1-S to both sides of the wall. Minimum separation between penetration seals and seal edges of 30 mm. SikaSeal-629 Fire Wrap+ are required to be fitted around the pipe insulation.

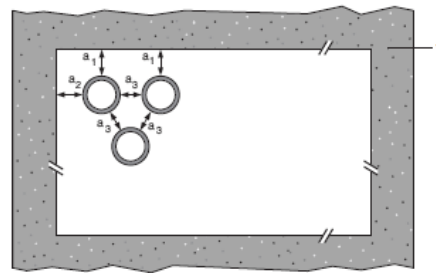
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

**Declaration of Performance**

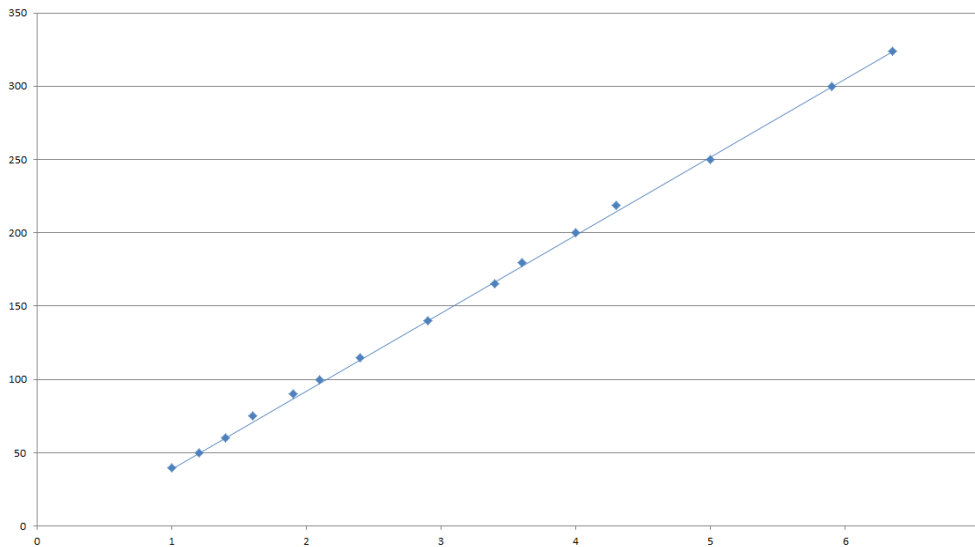
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**A.6.1.1**

Mild or stainless steel pipe	Insulation	SikaSeal-629 Fire Wrap+	Classification
40 mm diameter/1-14.2 mm wall*	32-50 mm thick Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	3 layers 50 x 1.8 mm	EI 90 C/U
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.6-14.2 mm wall*			
90 mm diameter/1.9-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.4-14.2 mm wall*			
140 mm diameter/2.9-14.2 mm wall*			
165 mm diameter/ 3.4-14.2 mm wall*			
180 mm diameter/ 3.6-14.2 mm wall*			
200 mm diameter/ 4.0-14.2 mm wall*			
219 mm diameter/ 4.3-14.2 mm wall*			
250 mm diameter/ 5.0-14.2 mm wall*			
300 mm diameter/ 5.9-14.2 mm wall*			
324 mm diameter/ 6.35-14.2 mm wall*			

Pipe Diameter vs wall thickness



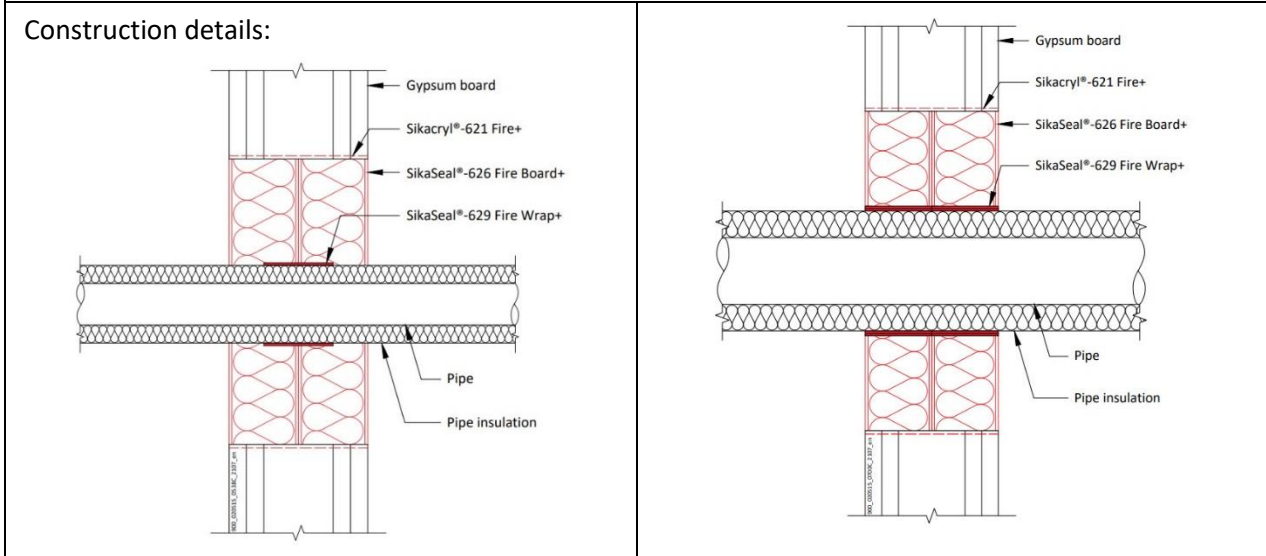
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**A.6.2 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 1-S, in flexible or rigid walls**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 50 mm SikaSeal-626 Fire Board+ 1-S to both sides of the wall. SikaSeal-629 Fire Wrap+ are required to be fitted around the pipe insulation.



**A.6.2.1**

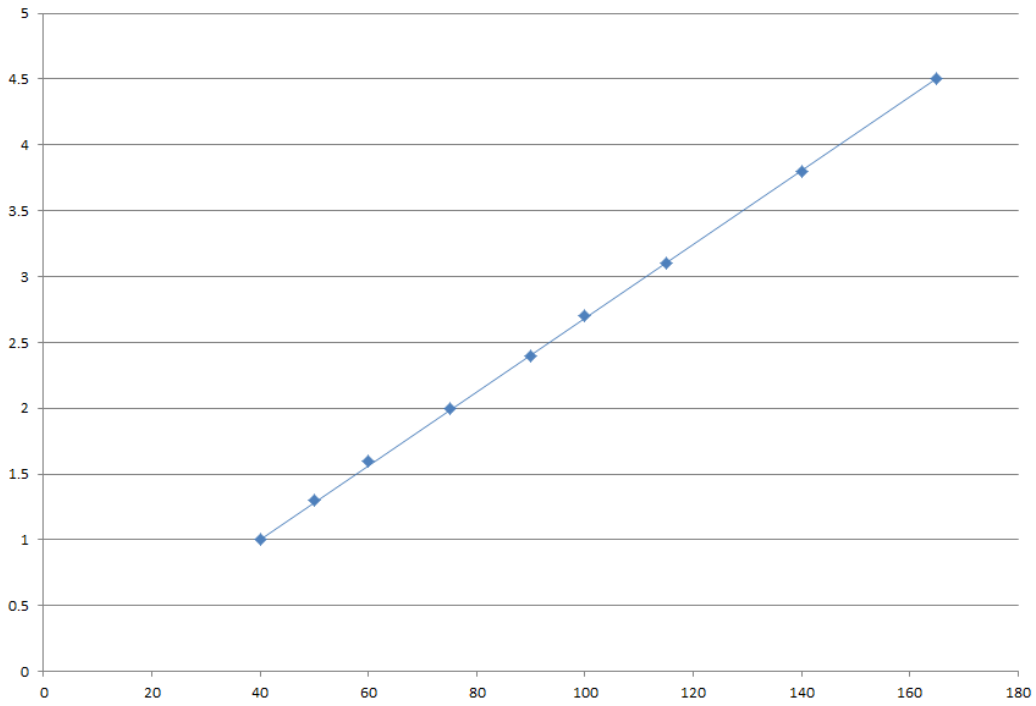
Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall	50 x 1.8 mm SikaSeal-629 Fire Wrap+ fitted centrally	13 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 U/C, EI 120 U/U, EI 120 C/U, EI 120 C/C
40 mm diameter/1-14.2 mm wall*	2 off 50 x 3.6 mm SikaSeal-629 Fire Wrap+, one fitted flush to each face of seal	13 - 32mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 U/C, E 120 U/U, E 120 C/U, E 120 C/C, EI 60 U/C, EI 60 U/U, EI 60 C/U, EI 60 C/C
50 mm diameter/1.3-14.2 mm wall*			
60 mm diameter/1.6-14.2 mm wall*			
75 mm diameter/2-14.2 mm wall*			
90 mm diameter/2.4-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3.1-14.2 mm wall*			
140 mm diameter/3.8-14.2 mm wall*			
165 mm diameter/ 4.5-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

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**Pipe diameter vs Wall thickness**



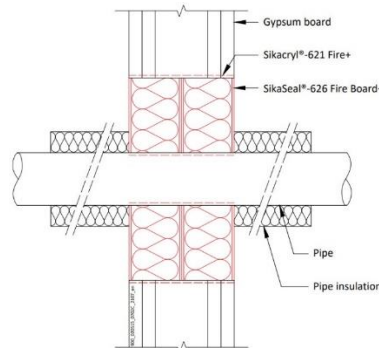
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**A.6.3 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 1-S, in flexible or rigid walls**

**Penetration Seal:** LS (Local Sustained) or CS (Continuous Sustained) insulated metallic and composite pipes (single) fitted at any position within the aperture, with 50 mm SikaSeal-626 Fire Board+ 1-S to both sides of the wall. SikaSeal-629 Fire Wrap+ are required to be fitted around the pipe to both sides of the seal.

Construction details:



**A.6.3.1**

Services	Wrap	Insulation	Classification
Copper pipe			
12 mm diameter/1 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 C/C
12-54 mm diameter/1-1.2 mm wall		9-13 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 C/C, EI 90 C/C
12-54 mm diameter/1-1.2 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 C/C, EI 60 C/C
Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD pipe)*			
16 mm diameter/2.25 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 C/C
20 mm diameter/2.5 mm wall			
26 mm diameter/3 mm wall			
32 mm diameter/3 mm wall			
40 mm diameter/3.5 mm wall			
50 mm diameter/4 mm wall			
63 mm diameter/4.5 mm wall			
75 mm diameter/4.7 mm wall			

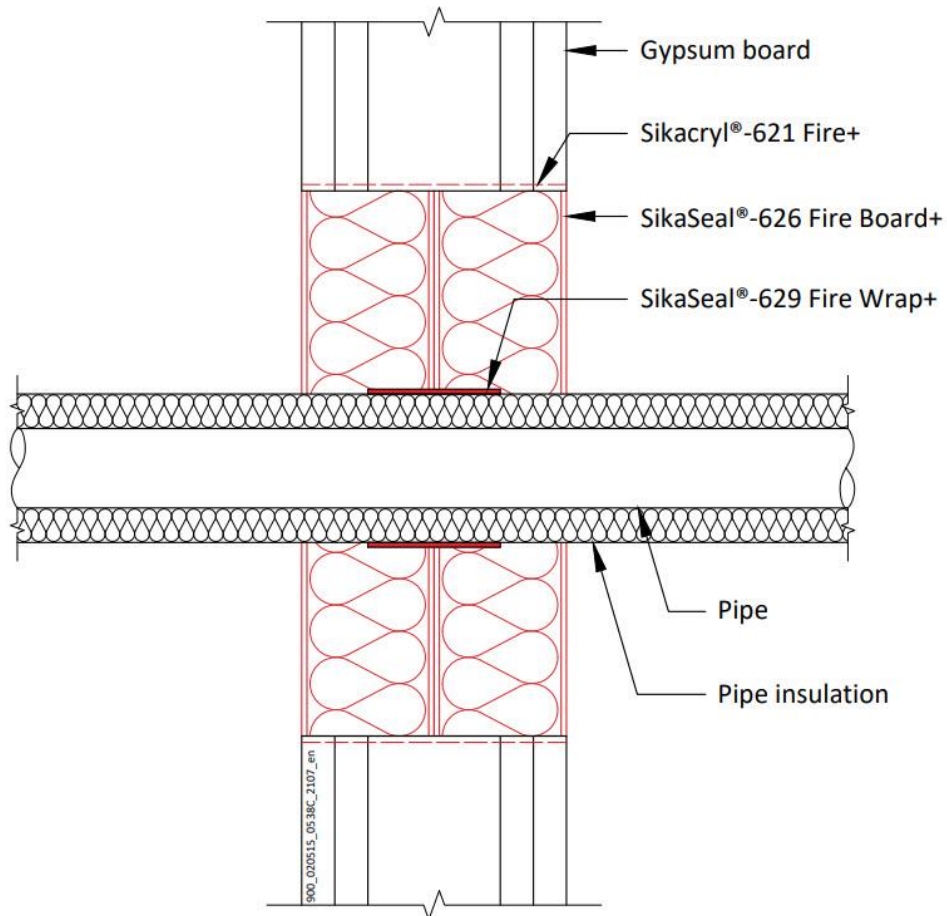
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**A.6.4 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 1-S, in flexible or rigid walls**

**P Penetration Seal:** Combustible pipes (single) fitted central within the aperture, with SikaSeal-626 Fire Board+ 1-S to both sides of the wall. SikaSeal-629 Fire Wrap+ are required to be fitted around the pipe.

Construction details:



**A.6.4.1**

Services	Pipe Wrap	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1  315 mm Ø/9.2 mm wall	SikaSeal-629 Fire Wrap+ 75 x 18 mm fitted centrally around the pipe	<b>EI 45 C/C</b>

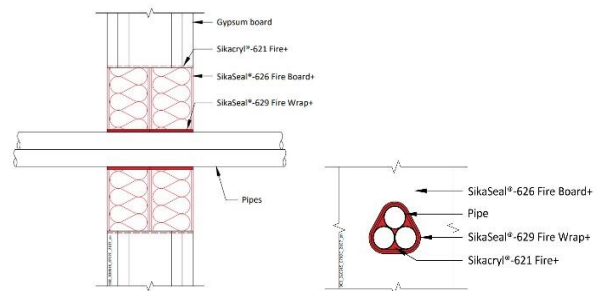
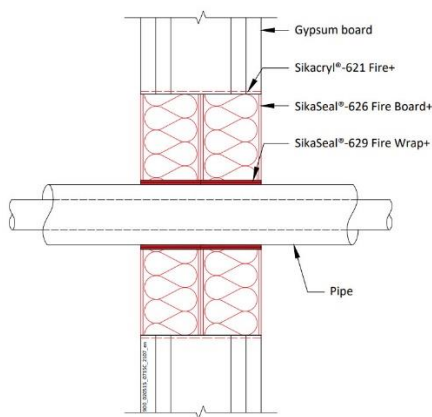
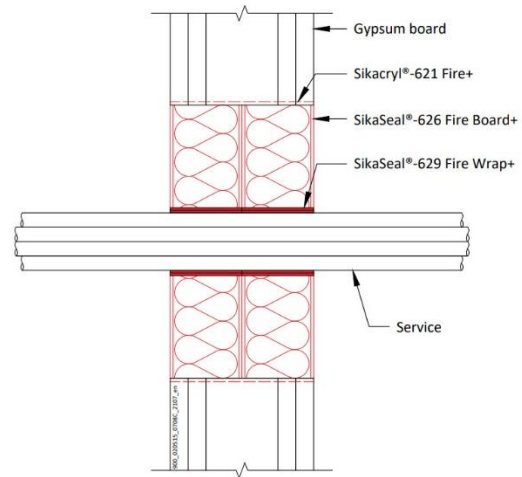
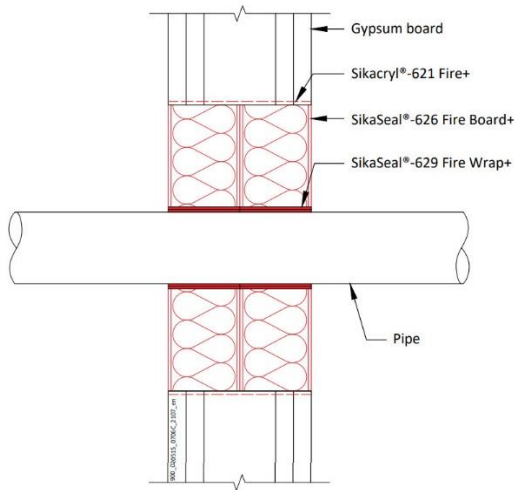
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**A.6.5 SikaSeal-629 Fire Wrap+ penetration seal for plastic pipes, in 2x SikaSeal-626 Fire Board+ 1-S, in flexible or rigid walls**

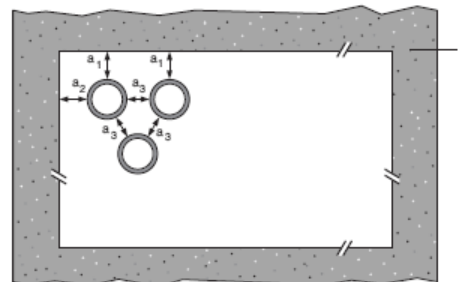
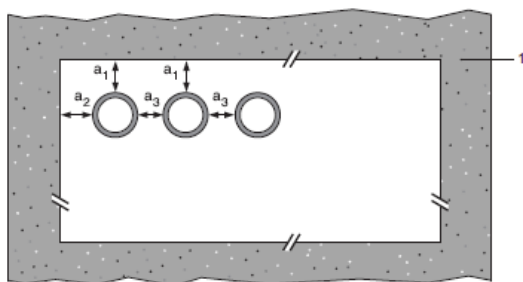
**Penetration Seal:** Combustible pipes sealed with SikaSeal-629 Fire Wrap+, to both sides of the wall. Minimum separation between penetration seals and seal edges of 30 mm. (Configuration 1 & 2).

Construction details:



**Configuration 1**

**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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### A.6.5.1

Services	Wraps (both sides)	Permitted configuration for seal separation	Classification
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1 and PVC-C according to EN 1566-1			
Diameter up to 40 mm, wall thickness 1.9 – 3.0 mm	50 x 1.8 mm (1 layer)	1 & 2 between	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 2.7 – 6.6 mm	50 x 3.6 mm (2 x 1.8 layer)	PVC-U/PVC-C,	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 3.7 – 7.4 mm	50 x 5.4 mm (3 x 1.8 layer)	PE/ABS/SAN +PVC and PP pipes in any combination	
Diameter up to 160 mm, wall thickness 9.5 mm *	50 x 7.2 mm (4 x 1.8 layer)		
Diameter up to 315 mm, wall thickness 7.7-12.1 mm*	50 x 18 mm (10 x 1.8 layers)	n/a	EI 90 C/C
Diameter up to 400 mm, wall thickness 9.8-15.3 mm*	50 x 28.8 mm (16 x 1.8 layers)	n/a	EI 90 C/C
Diameter up to 110 mm, wall thickness 2.7–6.6 mm, fully or partially filled conduits with cables up to 14 mm diameter	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	E 120 U/C, EI 90 U/C
PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1			
Diameter up to 40 mm, wall thickness 2.4 – 3.7 mm	50 x 1.8 mm (1 layer)	1 & 2 between	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 4.2 – 10 mm	50 x 3.6 mm (2 x 1.8 layer)	PVC-U/PVC-C,	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 4.8 – 12 mm	50 x 5.4 mm (3 x 1.8 layer)	PE/ABS/SAN +PVC and PP pipes in any combination	
Diameter up to 160 mm, wall thickness 14.6 mm	50 x 7.2 mm (4 x 1.8 layer)		
Diameter up to 110 mm, wall thickness 4.2–10 mm, fully or partially filled conduits with cables up to 14 mm diameter	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	E 120 U/C, EI 90 U/C
PP pipe according to EN 1852-1: 2009			
Diameter up to 40 mm, wall thickness 1.8 – 5.5 mm	50 x 1.8 mm (1 layer)	1 & 2 between	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 2.7 – 15.1 mm	50 x 3.6 mm (2 x 1.8 layer)	PVC-U/PVC-C,	EI 90 U/U, EI 90 C/U, EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 3.1 – 17.1 mm	50 x 5.4 mm (3 x 1.8 layer)	PE/ABS/SAN +PVC and PP pipes in any combination	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 160 mm, wall thickness 21.9 mm	50 x 7.2 mm (4 x 1.8 layer)		
Diameter up to 110 mm, wall thickness 2.7–15.1 mm, fully or partially filled conduits with cables up to 14 mm diameter	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	E 120 U/C, EI 90 U/C
Uponor Wirsbo PEX pipe in pipe system according to ISO 15875			
Diameter up to 54 mm/4.0 mm wall thickness (outer pipe), 28 mm diameter/0.4 mm wall thickness (inner pipe)	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 C/C

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<b>Uponor Wirsbo PEX double pipe in pipe system</b>			
Diameter up to 25 mm pipes, wall thickness 0.6 mm, in bundles up to 50 mm	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 90 C/C</b>
<b>BluePower Multilayer pipe according to EN 1451-1</b>			
32-50 mm diameter/1.8 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 90 U/U</b>
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 90 C/U</b>
<b>Rehau Raupiano Plus PP-DD according to DIN 4102</b>			
40-50 mm diameter/1.8-2.7 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/U</b>
75-110 mm diameter/2.7 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
125 mm diameter/3.9 mm wall thickness	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
160 mm diameter/3.9 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
<b>Polo-Kal NG Poloplast PP-MV according to DIN 4102</b>			
32-50 mm diameter/2.0-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/U</b>
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
125 mm diameter/3.9 mm wall thickness	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
160 mm diameter/4.9 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
<b>Aquatherm Green SDR9 MF PP-RP according to ISO 21003</b>			
32 mm diameter/3.0 mm wall thickness	50 x 1.8 mm (1 x 1.8 layer)	1 & 2	<b>E 120 C/C, EI 90 C/C</b>
40-50 mm diameter/5.6-12.3 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>E 120 C/C, EI 90 C/C</b>
63-110 mm diameter/12.3 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>E 120 C/C, EI 90 C/C</b>
<b>Wavin SiTech + PP-M B according to EN 13501-1</b>			
32-50 mm diameter/1.8-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>E 120 U/U, EI 90 U/U</b>
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>E 120 U/C, EI 60 U/C</b>
<b>Gilbert Silent PP according to DIN 4102</b>			
32-50 mm diameter/1.8-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/U</b>
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>

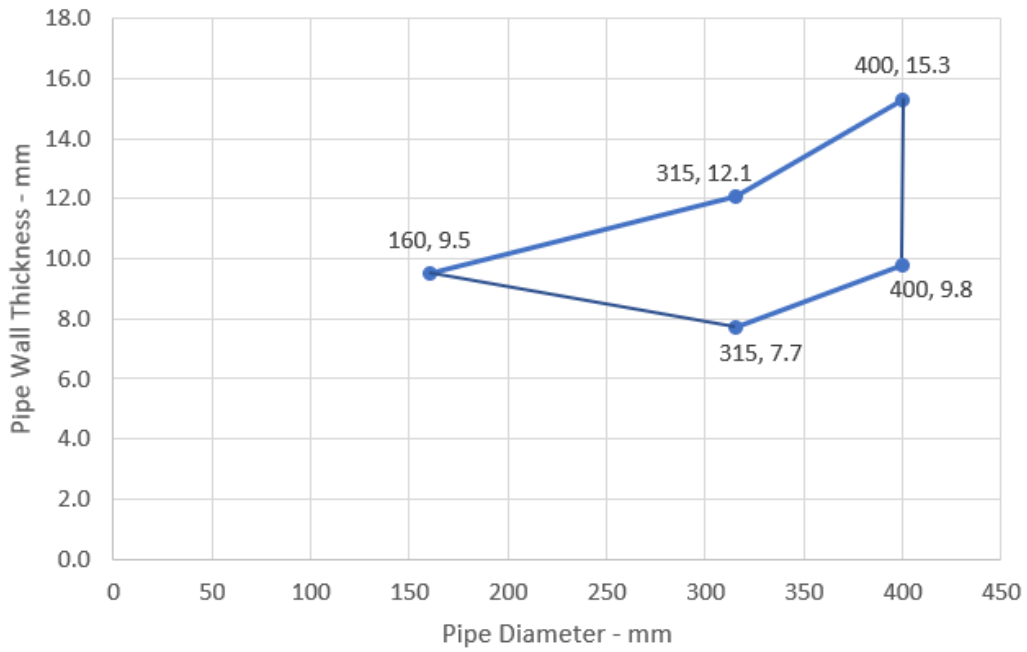
\*See below graph for interpolation pipe sizes

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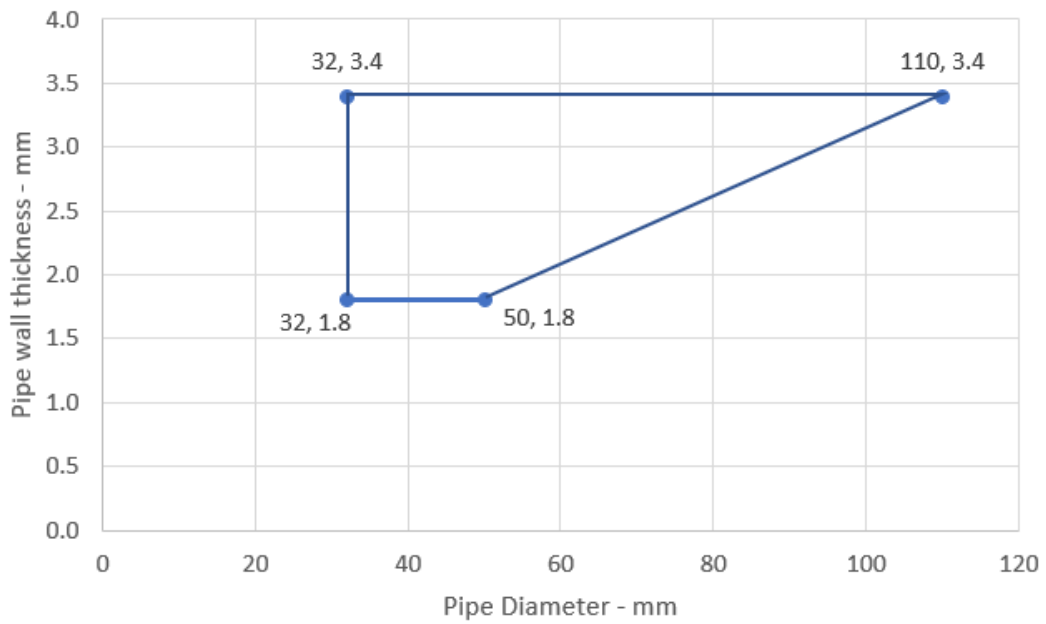
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### PVC-U Pipes - E 90 C/C, EI 60 C/C



### BluePower - EI 90 C/U

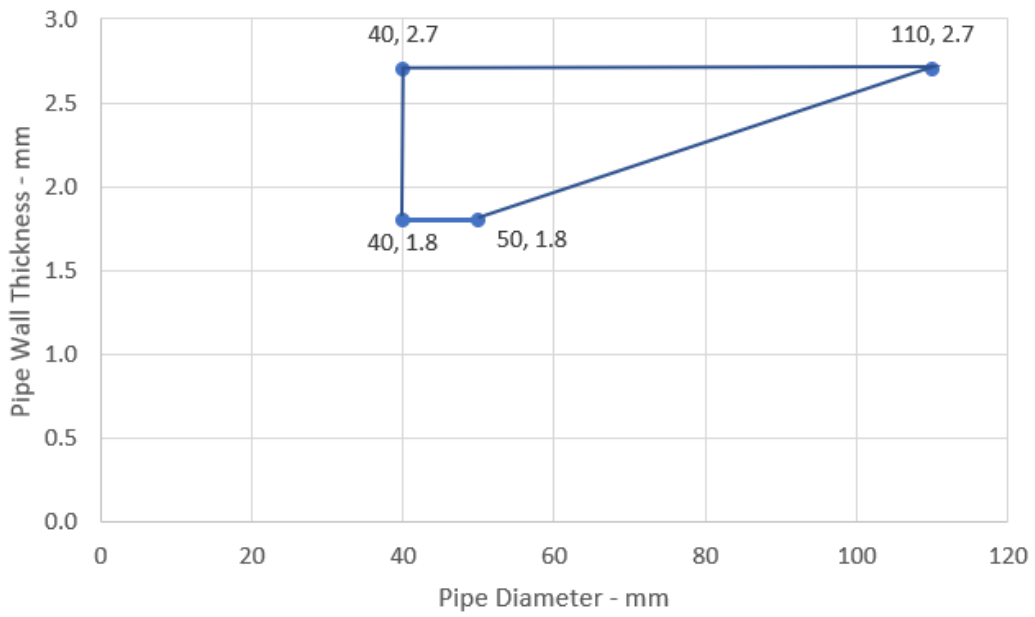


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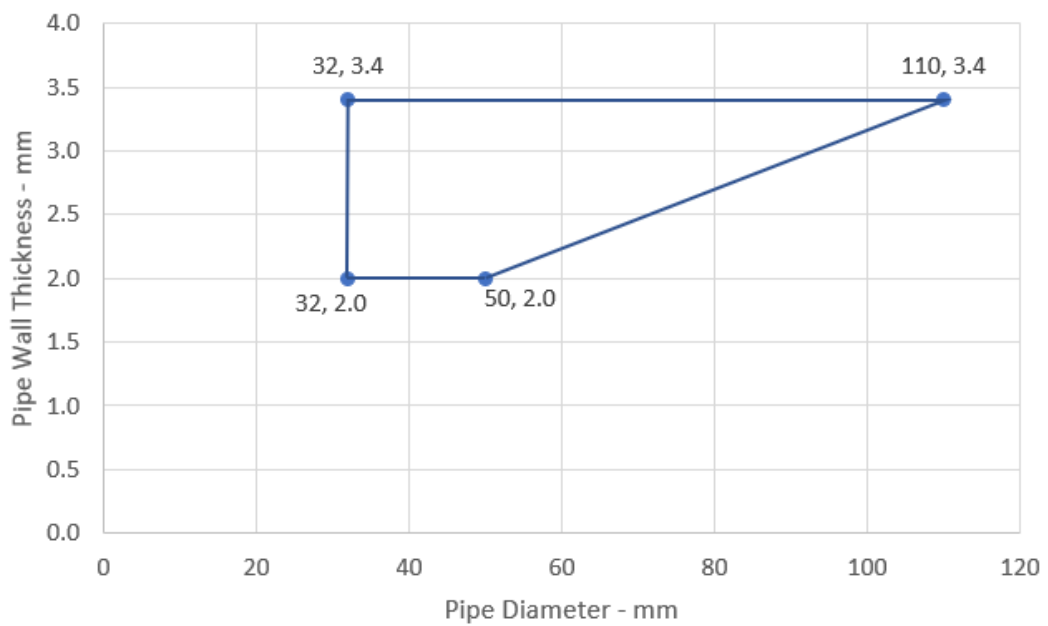
SikaSeal-629 Fire Wrap+  
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### Rehau Raupiano Plus -EI 120 U/C



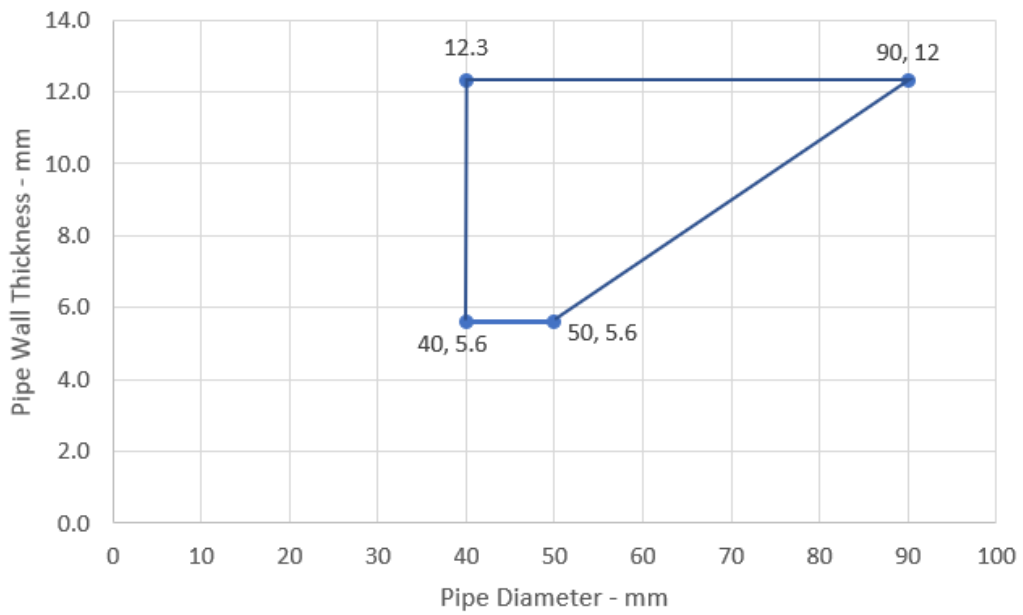
### Polo-Kal NG - EI 120 U/C



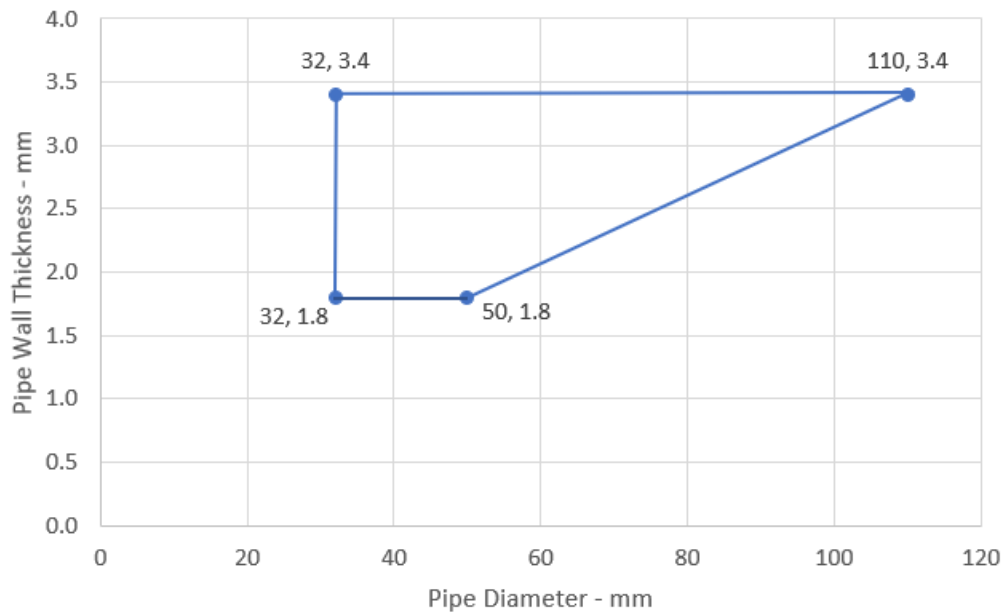
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### Aquatherm Green - E 120 C/C, EI 90 C/C



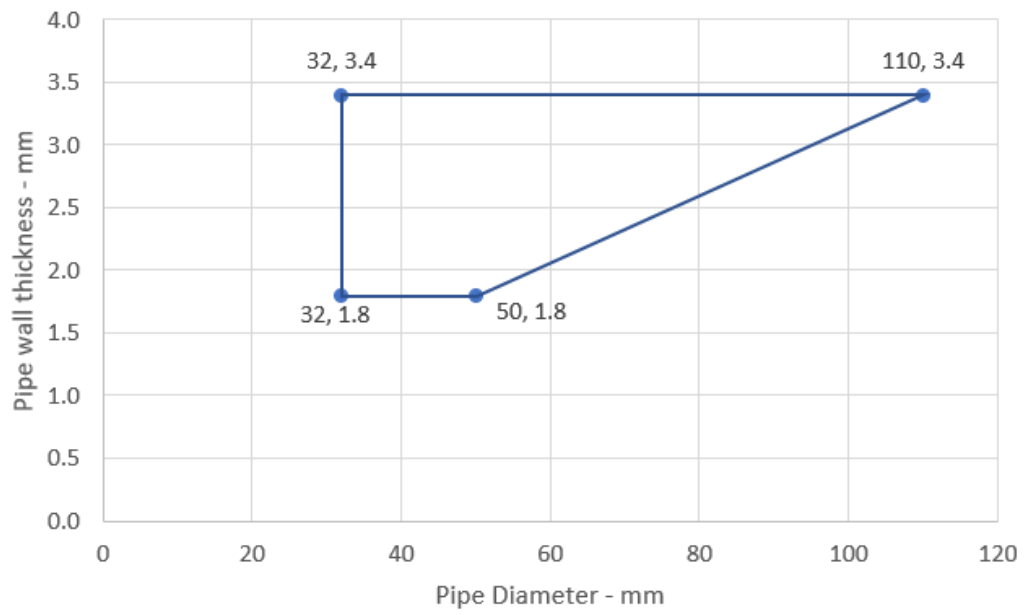
### Wavin SiTech Pipes - E120 C/C, EI 60 C/C



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### Gilbert Silent PP - EI 120 U/C



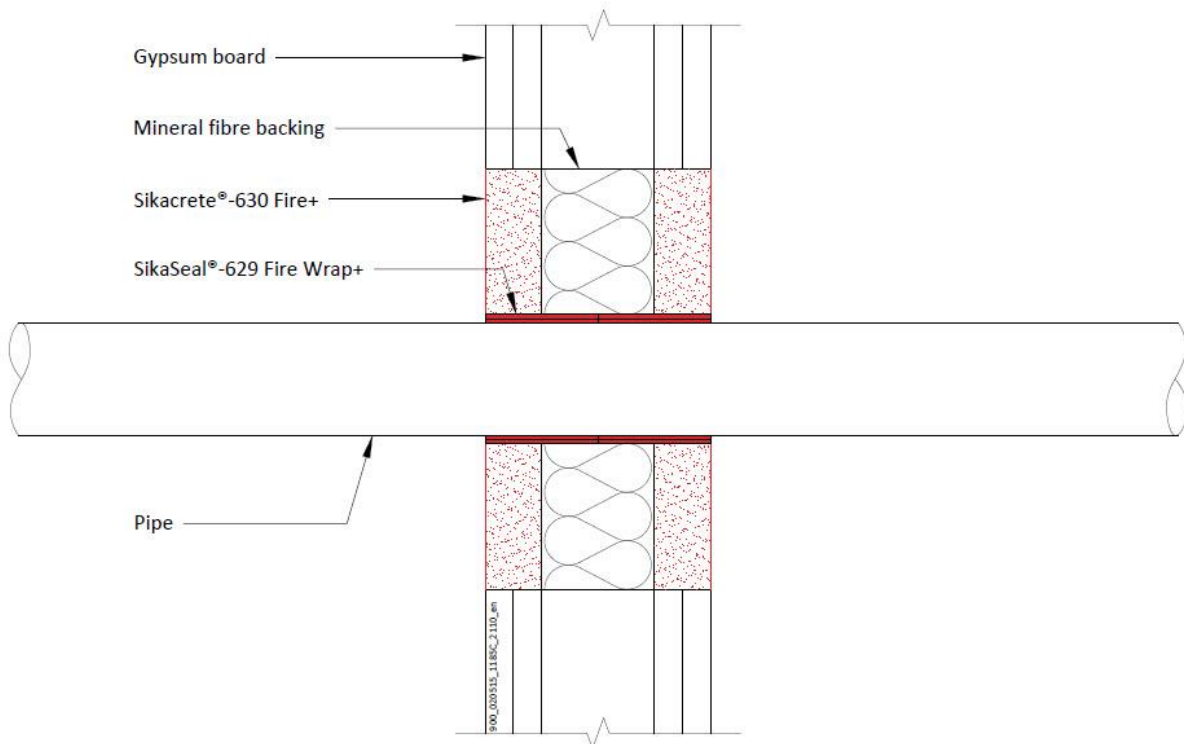
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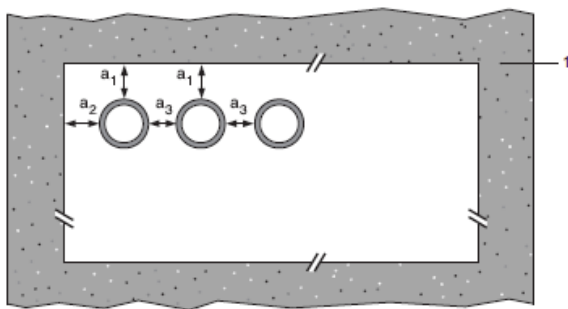
**A.6.6 Penetration seal in Sikacrete-630 Fire+ seals, in flexible\* and rigid walls minimum 100 mm thick**

**Penetration Seal:** Combustible pipes sealed with SikaSeal-629 Fire Wrap+, installed into Sikacrete-630 Fire+ seals. Minimum separation between penetration seals and seal edges of 30 mm.

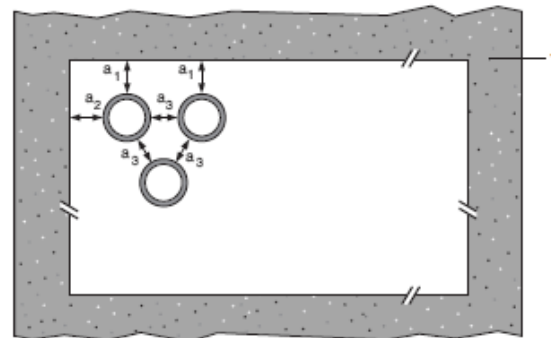
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

\* Partition wall must incorporate a full fill core insulation of Stonewool (35kg/m3 density)

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### A.6.6.1

Services	Wraps (both sides)	Permitted configuration for seal separation	Classification
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1 and PVC-C according to EN 1566-1			
Diameter up to 40 mm, wall thickness 3.0 – 4.3 mm	50 x 1.8 mm (1 layer)	1 & 2 between PVC-U/PVC-C, PE/ABS/SAN+PVC and PP pipes in any combination	E 120 U/C, E 120 C/U, EI 60 U/C, EI 60 C/C
Diameter up to 110 mm, wall thickness 2.7 - 6.6 mm	50 x 3.6 mm (2 x 1.8 layer)		E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 3.7 – 7.4 mm	50 x 5.4 mm (3 x 1.8 layer)		EI 120 U/C, EI 120 C/C
Diameter up to 160 mm, wall thickness 3.2 - 9.5 mm	50 x 7.2 mm (4 x 1.8 layer)		EI 60 U/C, EI 60 C/C
PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1			
Diameter up to 40 mm, wall thickness 3.2 – 3.7 mm	50 x 1.8 mm (1 layer)	1 & 2 between PVC-U/PVC-C, PE/ABS/SAN+PVC and PP pipes in any combination	EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 4.2 - 10 mm	50 x 3.6 mm (2 x 1.8 layer)		EI 60 U/C, EI 60 C/C
Diameter up to 125 mm, wall thickness 12 mm	50 x 5.4 mm (3 x 1.8 layer)		EI 120 U/C, EI 120 C/C
Diameter up to 160 mm, wall thickness 4.9 – 12.0 mm	50 x 7.2 mm (4 x 1.8 layer)		E 120 U/C, E 120 C/C
Diameter up to 160 mm, wall thickness 12.0 mm	50 x 7.2 mm (4 x 1.8 layer)		EI 90 U/C, EI 90 C/C
PP pipe according to EN 1852-1: 2009			
Diameter up to 40 mm, wall thickness 4.0 – 5.5 mm	50 x 1.8 mm (1 layer)	1 & 2 between PVC-U/PVC-C, PE/ABS/SAN+PVC and PP pipes in any combination	EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 6.6 mm	50 x 3.6 mm (2 x 1.8 layer)		E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 17.1 mm	50 x 5.4 mm (3 x 1.8 layer)		E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 160 mm, wall thickness 4.0 - 21.9 mm	50 x 7.2 mm (4 x 1.8 layer)		E 120 U/C, E 120 C/C
Diameter up to 160 mm, wall thickness 21.9 mm	50 x 7.2 mm (4 x 1.8 layer)		EI 60 U/C, EI 60 C/C

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

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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 : Tomasz Gutowski  
Function: Corporate Standardization  
and Approvals  
At Warsaw on 08 December 2021

Name : Maciej Michalewski  
Function: Standardization and Approvals  
At Warsaw on 08 December 2021



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

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# FULL CE MARK


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Sika Services AG, Zurich, Switzerland
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Resistance to fire - Annex A
Durability X

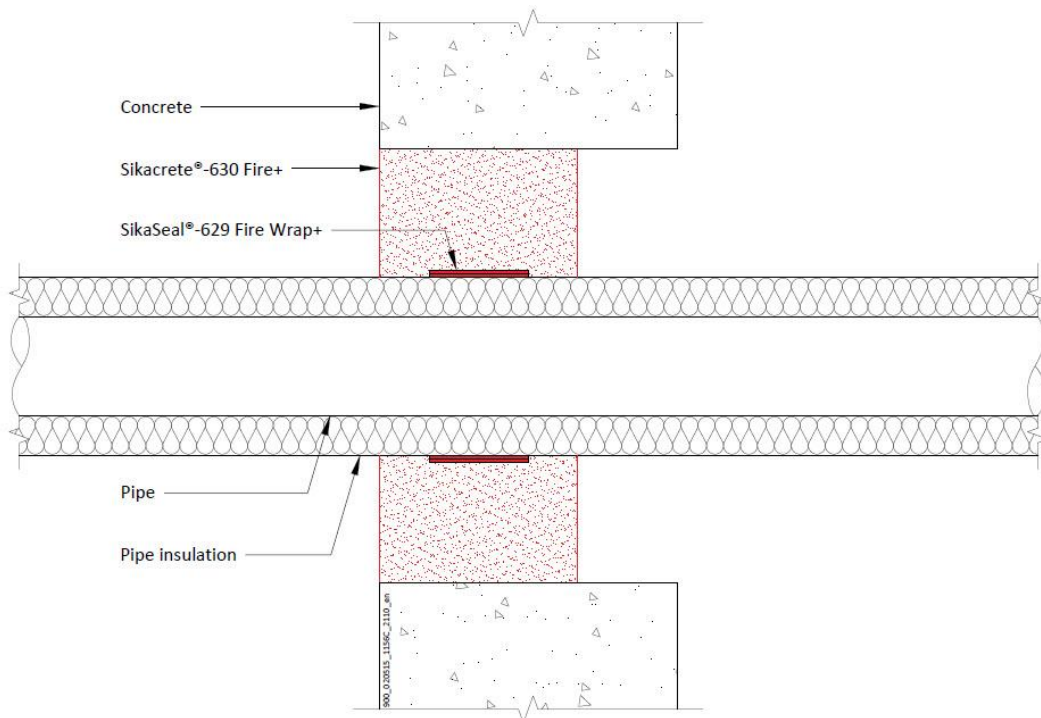
## ANNEX A – Resistance to Fire Classification – SikaSeal-629 Fire Wrap+

### A.1 Rigid wall constructions with wall thickness of minimum 150 mm

#### A.1.1 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid walls with insulated metal pipes

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 10 mm from seal edges), with 100 mm Sikacrete-630 Fire+ to either side of the wall. SikaSeal-629 Fire Wrap+ are required to be centrally within the seal for pipes with combustibile insulation. Maximum seal size 2400 mm wide x 1200 mm high.

Construction details:



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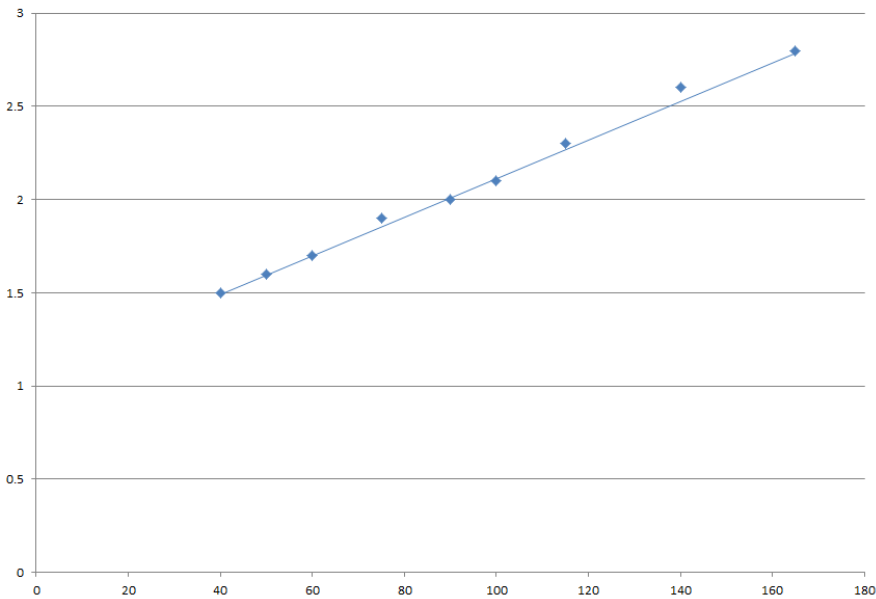


### A.1.1.1

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall	1 off 50 x 3.6mm SikaSeal-629 Fire Wrap+, fitted central	13 mm Elastomeric insulation minimum class Bs3,d0 or PE Foam insulation	EI 240 C/U
165 mm diameter/4.5-14.2 mm wall		9 mm Elastomeric insulation minimum class Bs3,d0 or PE Foam insulation	E 240 C/U, EI 30 C/U
40 mm diameter/1.5-14.2 mm wall*	1 off 50 x 1.8mm SikaSeal-629 Fire Wrap+, fitted central	13 -19 mm Elastomeric insulation minimum class Bs3,d0 or PE Foam insulation	E 240 C/U, EI 60 C/U
50 mm diameter/1.6-14.2 mm wall*			
60 mm diameter/1.7-14.2 mm wall*			
75 mm diameter/1.9-14.2 mm wall*			
90 mm diameter/2-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.3-14.2 mm wall*			
140 mm diameter/2.6-14.2 mm wall*			
165 mm diameter/2.8-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

Pipe diameter vs Wall thickness



#### Declaration of Performance

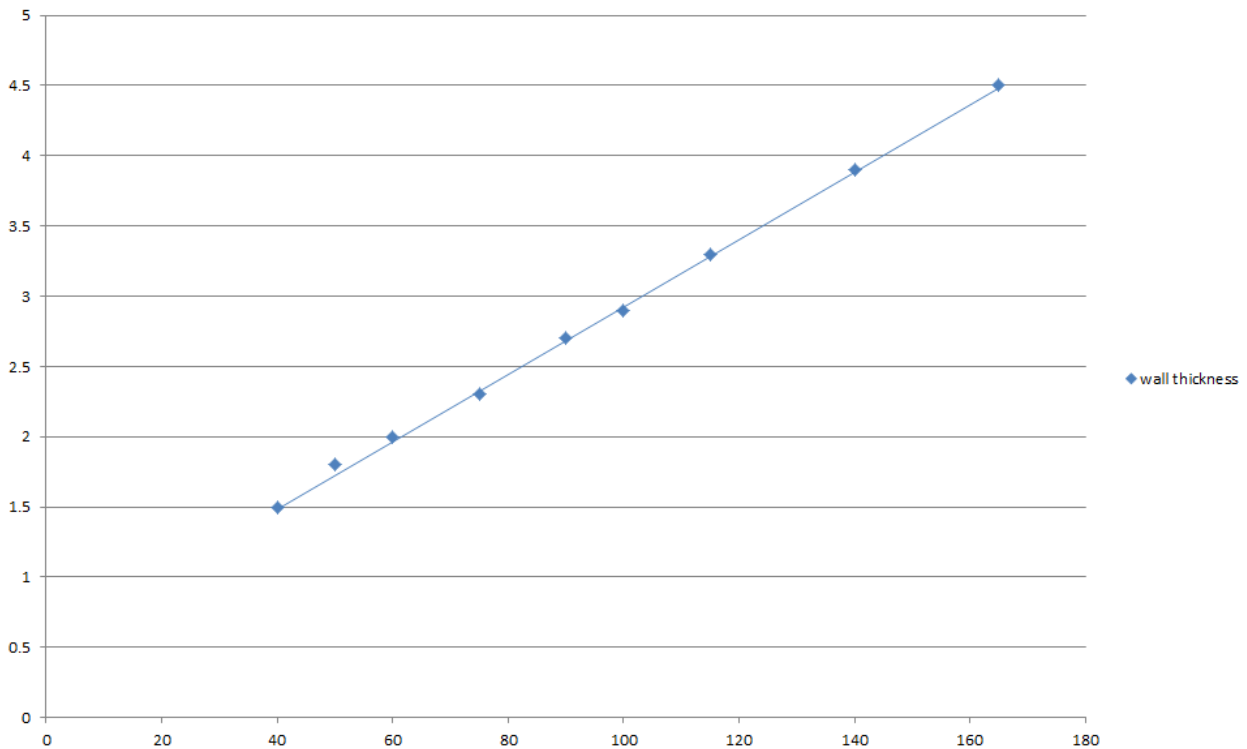
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### A.1.1.2

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	1 off 50 x 3.6mm SikaSeal-629 Fire Wrap+, fitted central	13-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	<b>E 180 C/U, EI 60 C/U</b>
50 mm diameter/1.8-14.2 mm wall*			
60 mm diameter/2-14.2 mm wall*			
75 mm diameter/2.3-14.2 mm wall*			
90 mm diameter/2.7-14.2 mm wall*			
100 mm diameter/2.9-14.2 mm wall*			
115 mm diameter/3.3-14.2 mm wall*			
140 mm diameter/3.9-14.2 mm wall*			
165 mm diameter/4.5-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

**Pipe diameter vs Wall thickness**



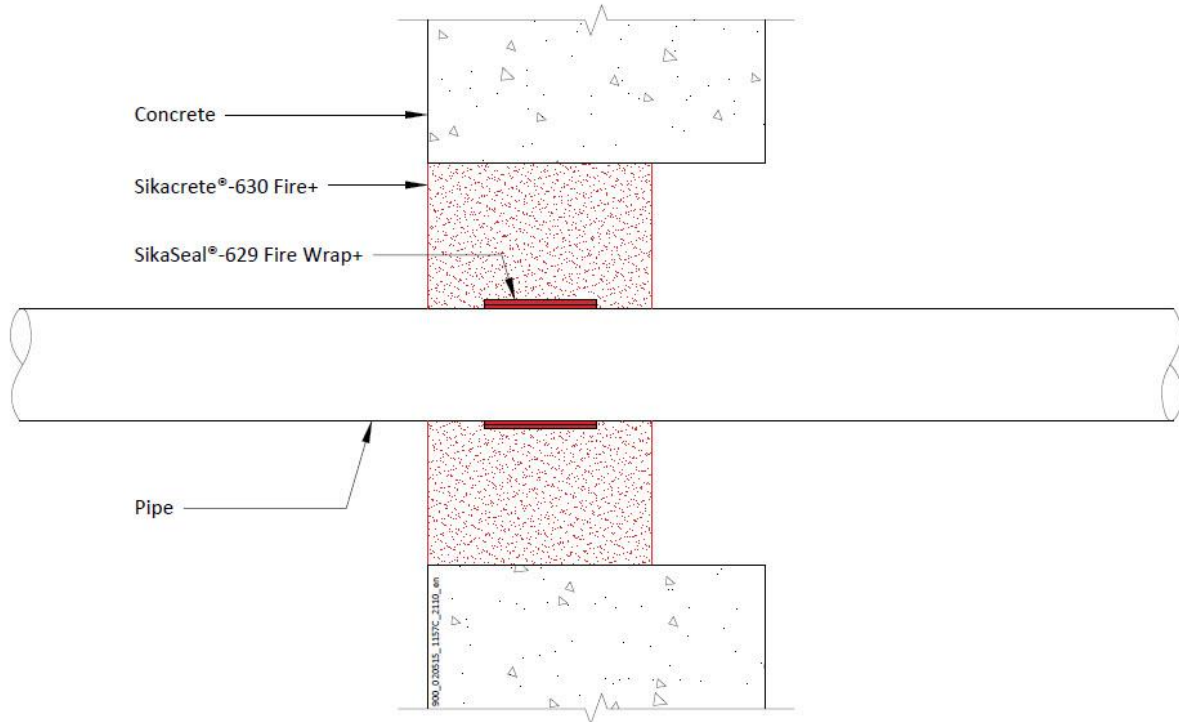
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### A.1.2 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid walls with plastic pipes

**Penetration Seal:** plastic pipes fitted at any position within the aperture (min. separation 10 mm from seal edges), with 100 mm Sikacrete-630 Fire+ to either side of the wall. SikaSeal-629 Fire Wrap+ are required to be centrally within the seal. Maximum seal size 2400 mm wide x 1200 mm high

Construction details:



#### A.2.2.1

Services	Wrap	Insulation	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1			
315 mm diameter/9.2 mm wall	1 off 75 x 18 mm SikaSeal-629 Fire Wrap+, fitted central	None	EI 120 C/C

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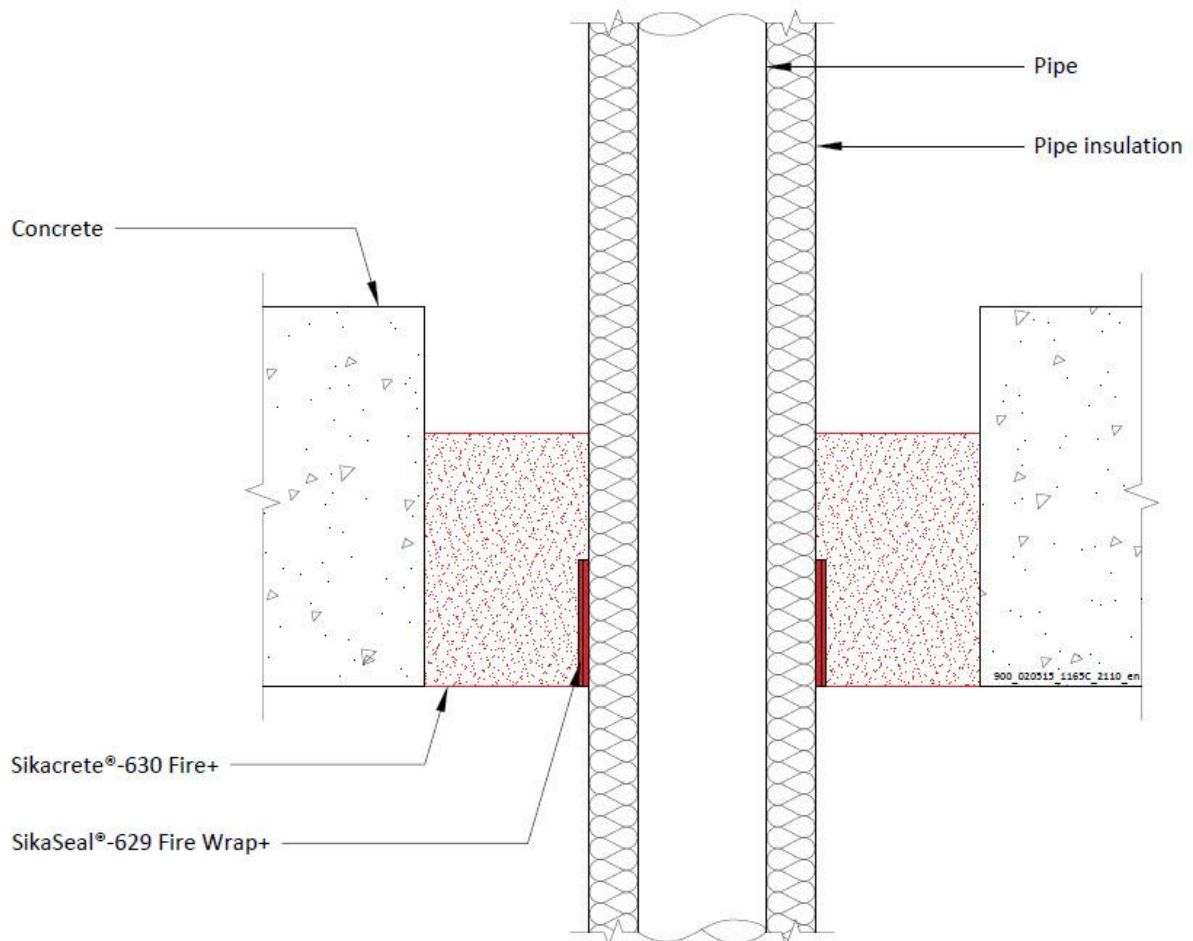
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## A.2 Rigid floor constructions with a minimum thickness 150 mm

### A.2.1 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid floors, with insulated metal pipes

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 25 mm from seal edges and 30 mm from other services), with 100 mm Sikacrete-630 Fire+ at any position within the floor. SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation. Maximum seal size 1200 x 2400 mm.

Construction details:



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**A.2.2.1**

Services	Wrap	Insulation	Classification
Copper pipe			
12 mm diameter/1 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to the soffit	9 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>EI 240 C/C</b>
12-54 mm diameter/1-1.2 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 240 C/C, EI 60 C/C</b>
Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD pipe)			
16 mm diameter/2.25 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to the soffit	9 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>EI 240 C/C</b>
16 mm diameter/2.25 mm wall		9-13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 240 C/C, EI 90 C/C</b>
20 mm diameter/2.5 mm wall			
26 mm diameter/3 mm wall			
32 mm diameter/3 mm wall			
40 mm diameter/3.5 mm wall			
50 mm diameter/4 mm wall			
63 mm diameter/4.5 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 180 C/C, EI 90 C/C</b>
75 mm diameter/4.7 mm wall			
16 mm diameter/2.25 mm wall			
20 mm diameter/2.5 mm wall			
26 mm diameter/3 mm wall			
32 mm diameter/3 mm wall			
40 mm diameter/3.5 mm wall			
50 mm diameter/4 mm wall			
63 mm diameter/4.5 mm wall			
75 mm diameter/4.7 mm wall			

**Declaration of Performance**

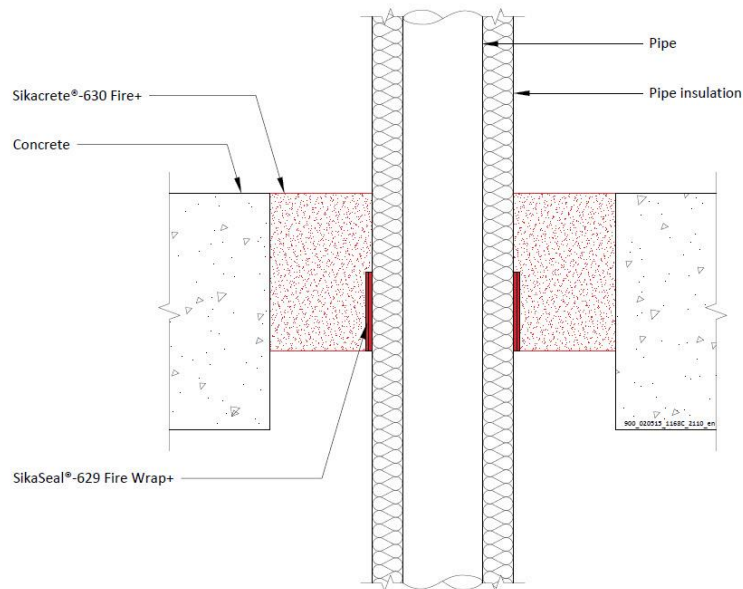
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## A.2.2 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid floors, with insulated metal pipes

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges and 30 mm from other services), with 100 mm Sikacrete-630 Fire+ to the top surface of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation. Maximum seal size 2400 mm x 1200 mm.

Construction details:



### A.2.2.1

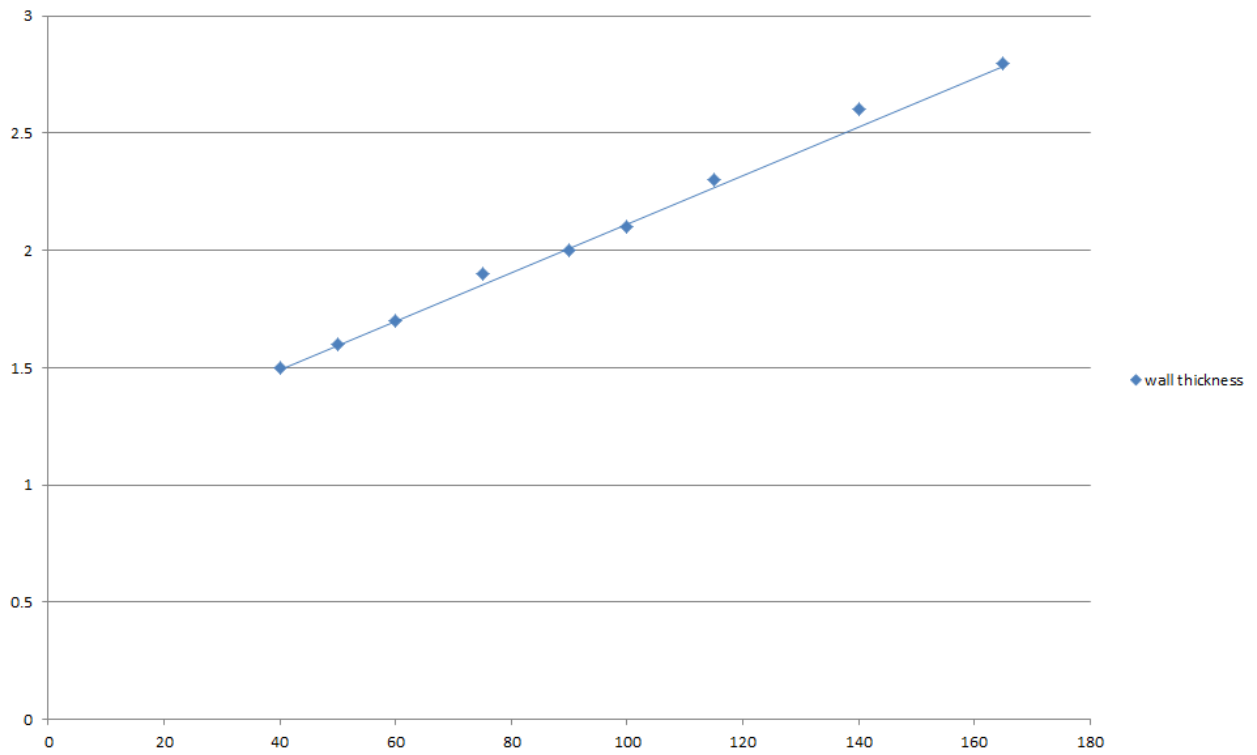
Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/-14.2 mm wall		13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	EI 180 C/U
40 mm diameter/1.5-14.2 mm wall*	1 off 50 x 1.8 mm SikaSeal-629 Fire Wrap+, fitted at soffit	13 -19 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	E 180 C/U, EI 120 C/U
50 mm diameter/1.6-14.2 mm wall*			
60 mm diameter/1.7-14.2 mm wall*			
75 mm diameter/1.9-14.2 mm wall*			
90 mm diameter/2-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.3-14.2 mm wall*			
140 mm diameter/2.6-14.2 mm wall*			
165 mm diameter/2.8-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

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**Pipe diameter vs Wall thickness**



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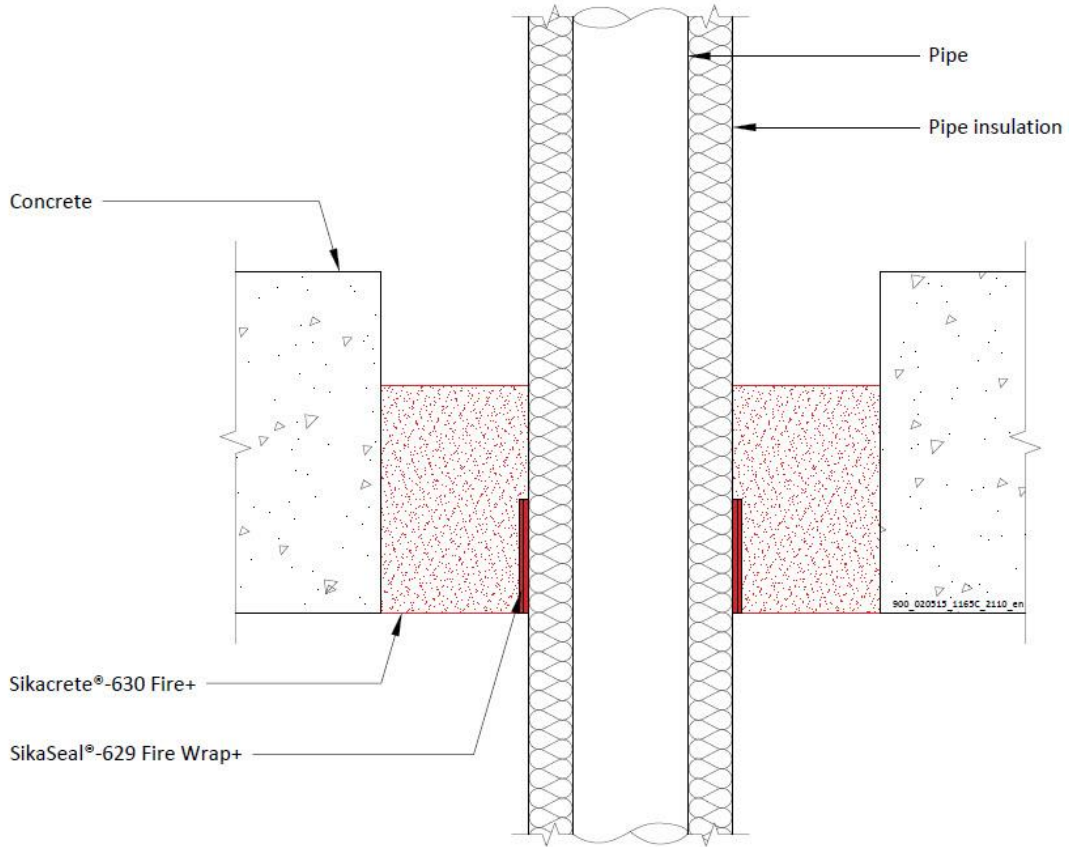
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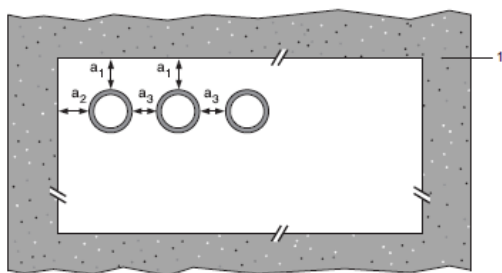
### A.2.3 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in Sikacrete-630 Fire+ Seal, in rigid floors

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes sealed with SikaSeal-629 Fire Wrap+, fitted at any position within the aperture, with 100 mm Sikacrete-630 Fire+ Seal. Minimum separation between penetration seals and seal edges of 30 mm (Configuration 1 & 2).

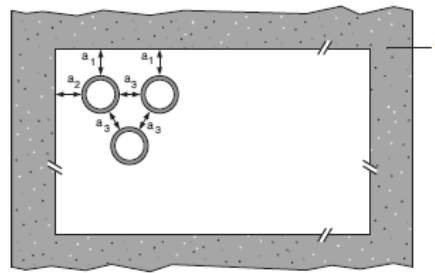
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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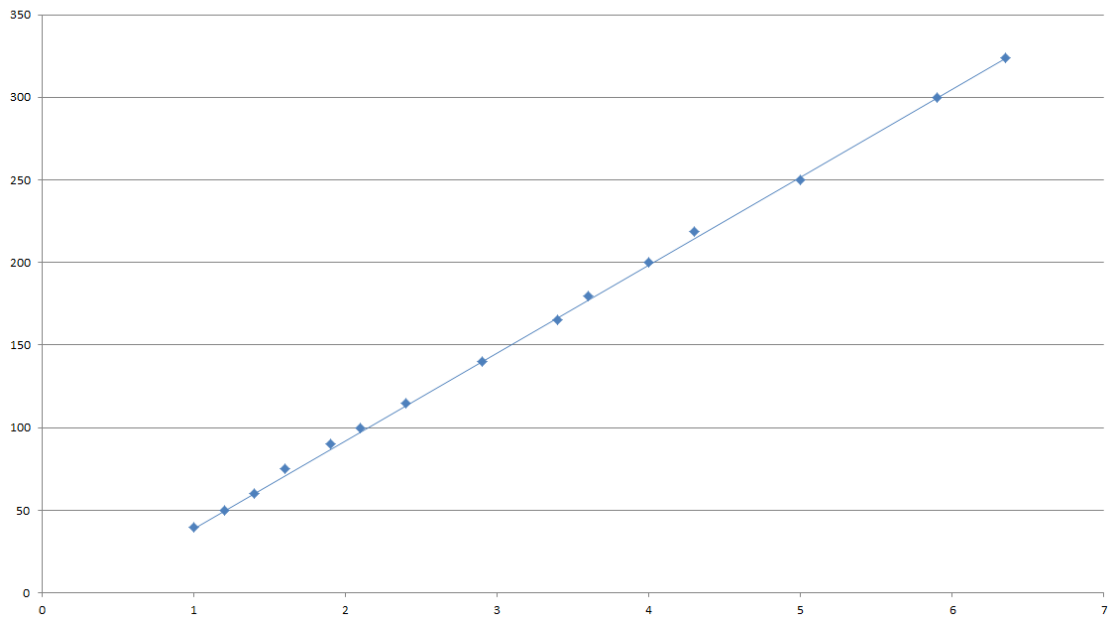
### A.2.3.1

Mild or stainless steel pipe	Insulation	SikaSeal-629 Fire Wrap+	Classification
40 mm diameter/1-14.2 mm wall	25 mm thick Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	50 x 3.6 mm (2 x 1.8 layer)	EI 240 C/U
40 mm diameter/1-14.2 mm wall*	25mm thick Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation		E 240 C/U EI 120 C/U
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.6-14.2 mm wall*			
90 mm diameter/1.9-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.4-14.2 mm wall*			
140 mm diameter/2.9-14.2 mm wall*			
165 mm diameter/ 3.4-14.2 mm wall*			
180 mm diameter/ 3.6-14.2 mm wall*			
200 mm diameter/ 4.0-14.2 mm wall*			
219 mm diameter/ 4.3-14.2 mm wall*			
250 mm diameter/ 5.0-14.2 mm wall*			
300 mm diameter/ 5.9-14.2 mm wall*			
324 mm diameter/ 6.35-14.2 mm wall*	25-50mm thick Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	50 x 5.4 mm (3 x 1.8 layer)	EI 120 C/U
40 mm diameter/1-14.2 mm wall*			
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.6-14.2 mm wall*			
90 mm diameter/1.9-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.4-14.2 mm wall*			
140 mm diameter/2.9-14.2 mm wall*			
165 mm diameter/ 3.4-14.2 mm wall*			
180 mm diameter/ 3.6-14.2 mm wall*			
200 mm diameter/ 4.0-14.2 mm wall*			
219 mm diameter/ 4.3-14.2 mm wall*			
250 mm diameter/ 5.0-14.2 mm wall*			
300 mm diameter/ 5.9-14.2 mm wall*			
324 mm diameter/ 6.35-14.2 mm wall*			

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Pipe Diameter vs wall thickness



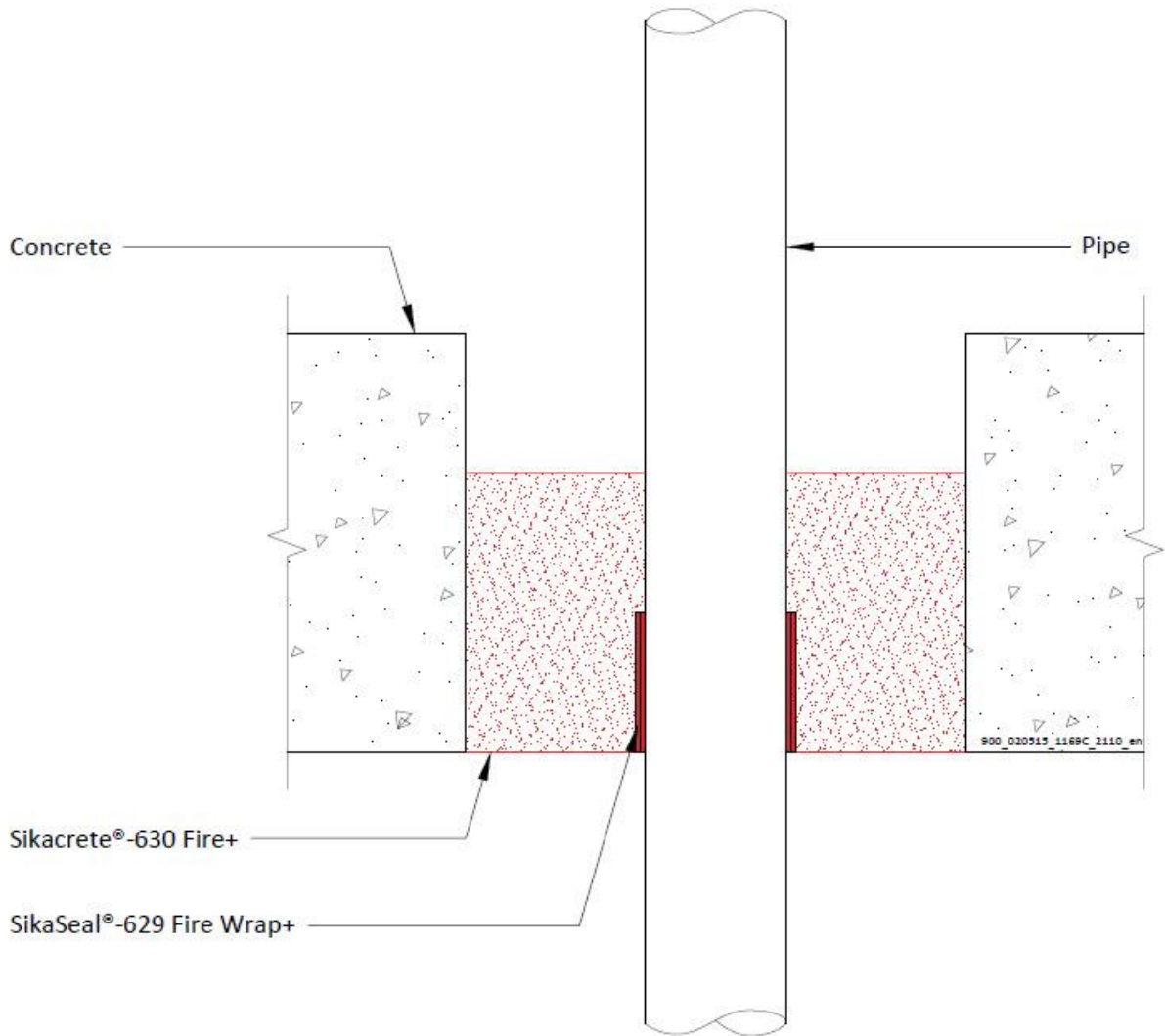
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**A.2.4 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm deep Sikacrete-630 Fire+ seals in rigid floors, with plastic pipes**

**Penetration Seal:** Plastic pipes fitted at any position within the aperture, with 100 mm Sikacrete-630 Fire+ to the either surface of the floor or anywhere between. SikaSeal-629 Fire Wrap+ are required to be fitted to the bottom of the seal, as indicated below. Minimum separation between penetration seals and seal edges of 30 mm (Configuration 1 & 2).

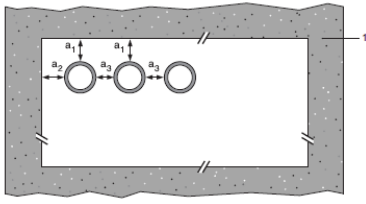
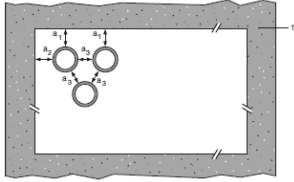
Construction details:



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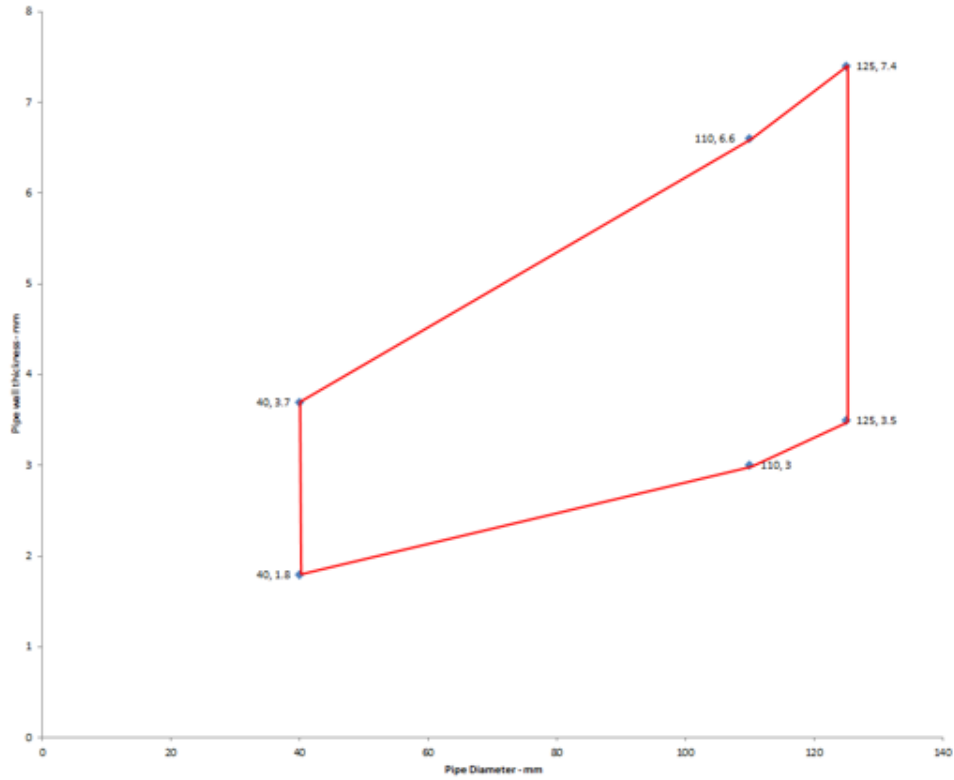
### A.2.4.1

Services	Wrap	Maximum aperture	Classification
<b>PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1</b>			
Up to 40 mm diameter / 1.8-3.7 mm wall	50 x 1.8 mm	2400 x 1200 mm	<b>E 180 U/U, EI 120 U/U</b>
Up to 110 mm diameter / 3.0-6.6 mm wall	50 x 3.6 mm		<b>EI 240 U/C</b>
Up to 125 mm diameter / 3.5-7.4 mm wall	50 x 7.2 mm		<b>EI 120 U/C</b>
Up to 160 mm diameter / 4.5 mm wall	50 x 10.8 mm		<b>EI 240 C/C</b>
Up to 160 mm diameter / 4.5-9.5 mm wall	50 x 10.8 mm		<b>EI 90 C/C</b>
Up to 110 mm diameter/ 2.7-6.6 mm wall, containing up to 90mm Ø bundle of up to 14 mm Ø telecom cables	50 x 3.6 mm		<b>EI 120 U/C</b>
<b>PP pipe according to EN 1451-1</b>			
Up to 40 mm diameter /1.8-4.4 mm wall	None	2400 x 1200 mm	<b>EI 120 U/C</b>
Up to 40 mm diameter /1.8-5.5 mm wall	50 x 1.8 mm		<b>EI 120 U/U</b>
Up to 50 mm diameter /2.5-5.5 mm wall	50 x 3.6 mm		<b>EI 240 C/C</b>
Up to 75 mm diameter /3.5-5.5 mm wall	50 x 3.6 mm		<b>EI 240 C/C</b>
Up to 110 mm diameter /2.7-6.3 mm wall	50 x 3.6 mm		<b>EI 240 U/C</b>
Up to 125 mm diameter /3.4-11.4 mm wall	50 x 7.2 mm		<b>EI 240 U/C</b>
Up to 160 mm diameter /4.9-14.6 mm wall	50 x 10.8 mm		<b>EI 240 U/C</b>
Up to 110 mm diameter/ 3.4-6.3 mm wall, containing up to 90mm Ø bundle of up to 14 mm Ø telecom cables	50 x 3.6 mm		<b>EI 60 U/C</b>
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>			
Up to 40 mm diameter / 2.0-4.4 mm wall	None	2400 x 1200 mm	<b>EI 120 U/C</b>
Up to 40 mm diameter / 2.4-3.7 mm wall	50 x 1.8 mm		<b>EI 240 U/U</b>
Up to 110 mm diameter / 3.4-10.0 mm wall	50 x 3.6 mm		<b>EI 120 U/C</b>
Up to 125 mm diameter / 3.9-11.4 mm wall	50 x 7.2 mm		<b>EI 240 U/C</b>
Up to 160 mm diameter / 4.9-14.6 mm wall	50 x 10.8 mm		<b>EI 120 U/C</b>
Up to 250 mm diameter / 7.8 mm wall	75 x 12.6 mm		<b>EI 180 C/C</b>
Up to 110 mm diameter/ 2.7-10.0 mm wall, containing up to 90mm Ø bundle of up to 14 mm Ø telecom cables	50 x 3.6 mm		<b>E 120 U/C, EI 60 U/C</b>
<b>Configuration 1</b>		<b>Configuration 2</b>	
			
<b>Key</b> 1 Supporting construction a1 Pipe / top edge of seal separation a2 Pipe / side edge of seal separation a3 Pipe / pipe separation			

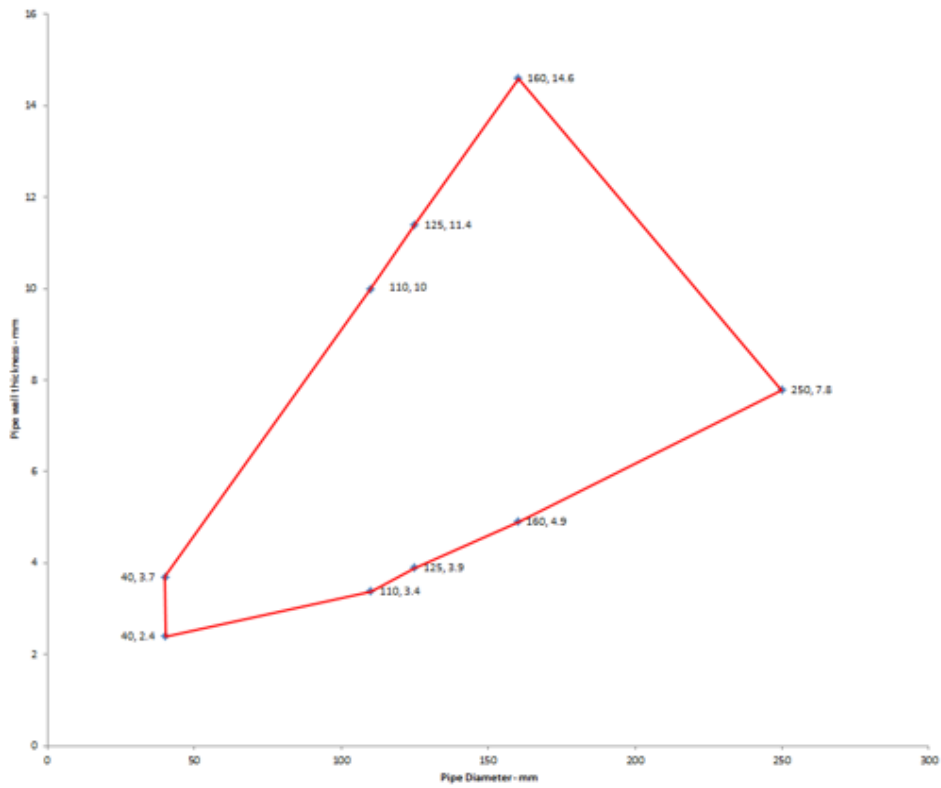
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PVC-U pipes U/C with SikaSeal-629 Fire Wrap+ - EI 120 U/C



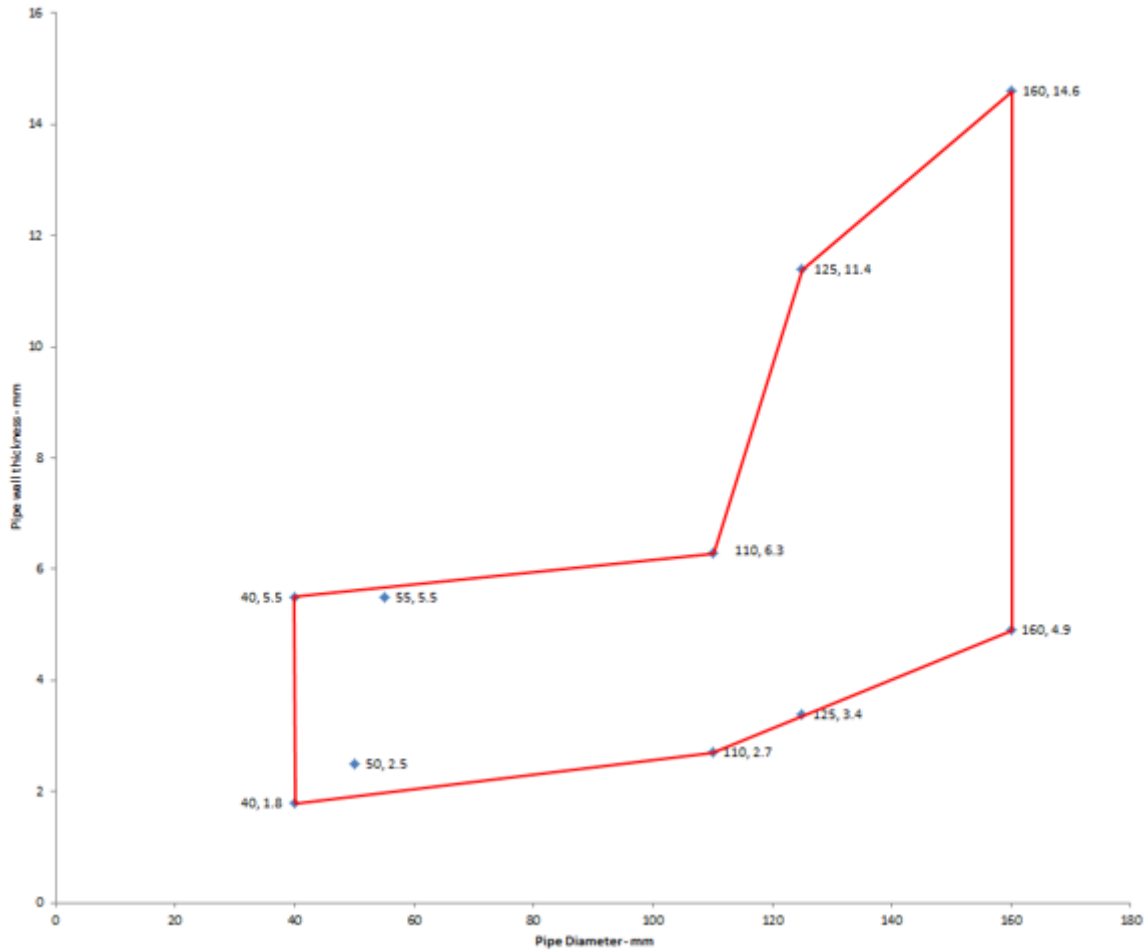
PE pipes U/C with SikaSeal-629 Fire Wrap+ - EI 120 U/C



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PP pipes U/C with SikaSeal-629 Fire Wrap+ . EI 120 U/C

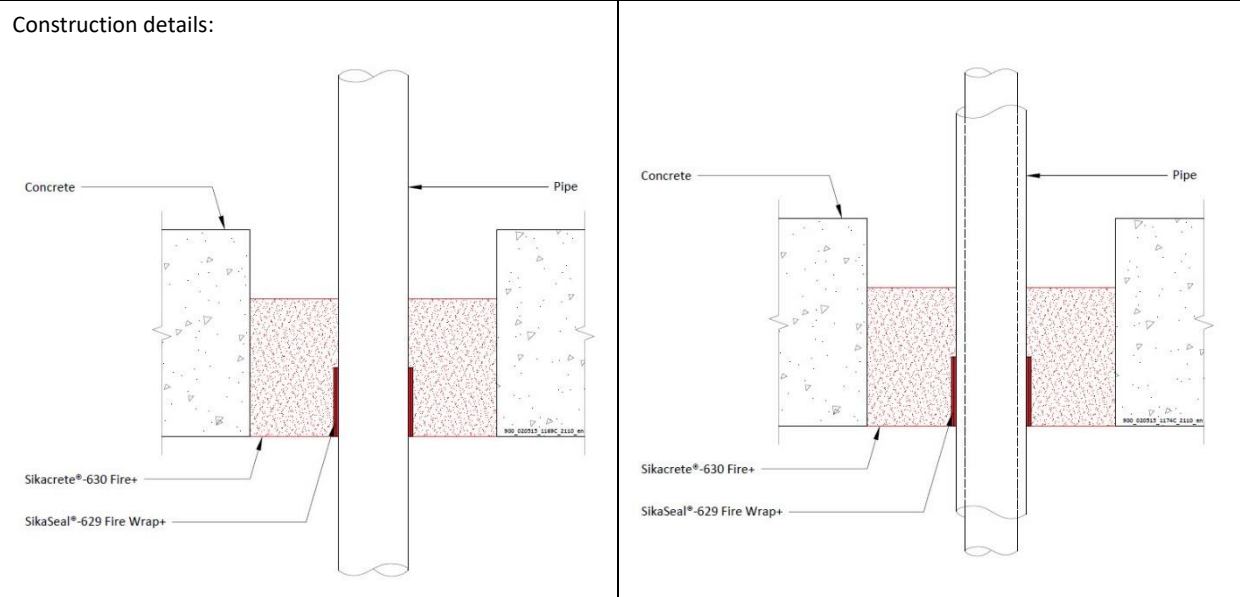


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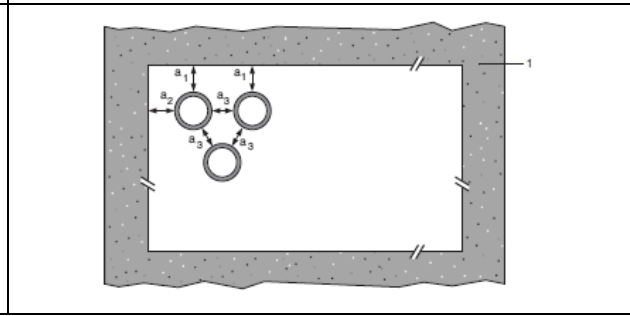
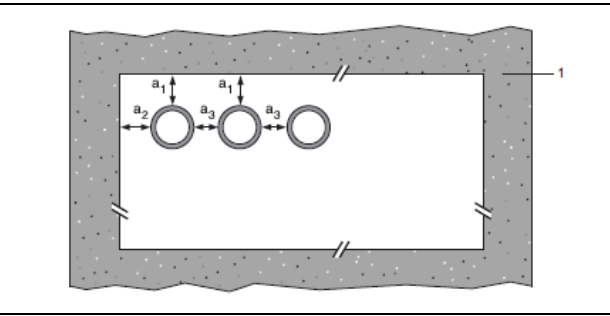
**A.2.5 SikaSeal-629 Fire Wrap+ penetration seals, in 100 mm thick Sikacrete-630 Fire+ seals in rigid floors, with plastic pipes**

**Penetration Seal:** Plastic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges and from other services), with 100 mm Sikacrete-630 Fire+ to the bottom surface of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted to the bottom of the seal, as indicated below. Maximum seal size 2400 mm x 1200 mm.



**Configuration 1**

**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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### A.2.5.1

Services	Wrap	Permitted configuration for seal separation	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
160 mm diameter / 9.5 mm wall	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	EI 90 U/C
Uponor Wirsbo PEX pipe in pipe system according to ISO 15875			
Maximum 54 mm diameter/0.4 mm wall thickness (outer pipe), 28 mm diameter/4.0 mm wall thickness (inner pipe)	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 C/C
Rehau Raupiano Plus PP-DD according to DIN 4102			
40-50 mm diameter/1.8-2.7 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/U
75-110 mm diameter/2.7 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/C
125 mm diameter/3.1 mm wall thickness	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	E 240 U/C, EI 120 U/C
160 mm diameter/3.9 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	EI 120 U/C
Polo-Kal NG Poloplast PP-MV according to DIN 4102			
32-110 mm diameter/3.4 mm wall thickness	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 180 U/C
125 mm diameter/3.9 mm wall thickness	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	EI 240 U/C
160 mm diameter/4.3 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	EI 240 U/C
Aquatherm Green SDR9 MF PP-RP according to ISO 21003			
32 mm diameter/3.6 mm wall thickness	50 x 1.8 mm (1 x 1.8 layer)	1 & 2	EI 240 C/C
40-50 mm diameter/5.6-12.3 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 240 C/C
63-110 mm diameter/12.3 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 240 C/C
Wavin SiTech + PP-M B according to EN 13501-1			
32-50 mm diameter/1.8-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/U
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/C
Gilbert Silent PP according to DIN 4102			
32-50 mm diameter/1.8-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/U
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 U/C

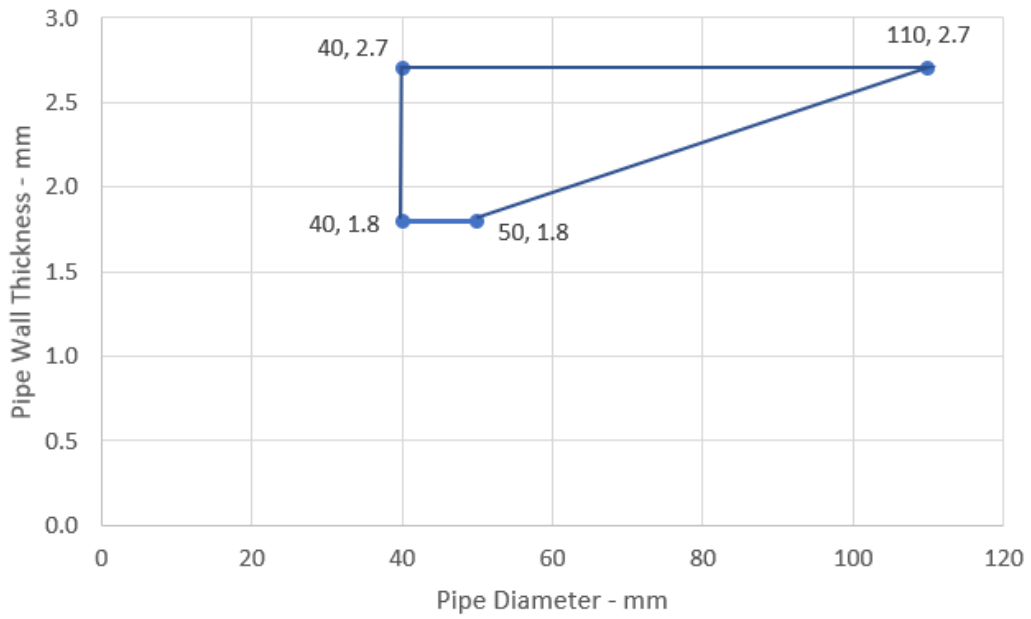
\* Typical pipe diameters shown, see below graph for intermediate sizes

#### Declaration of Performance

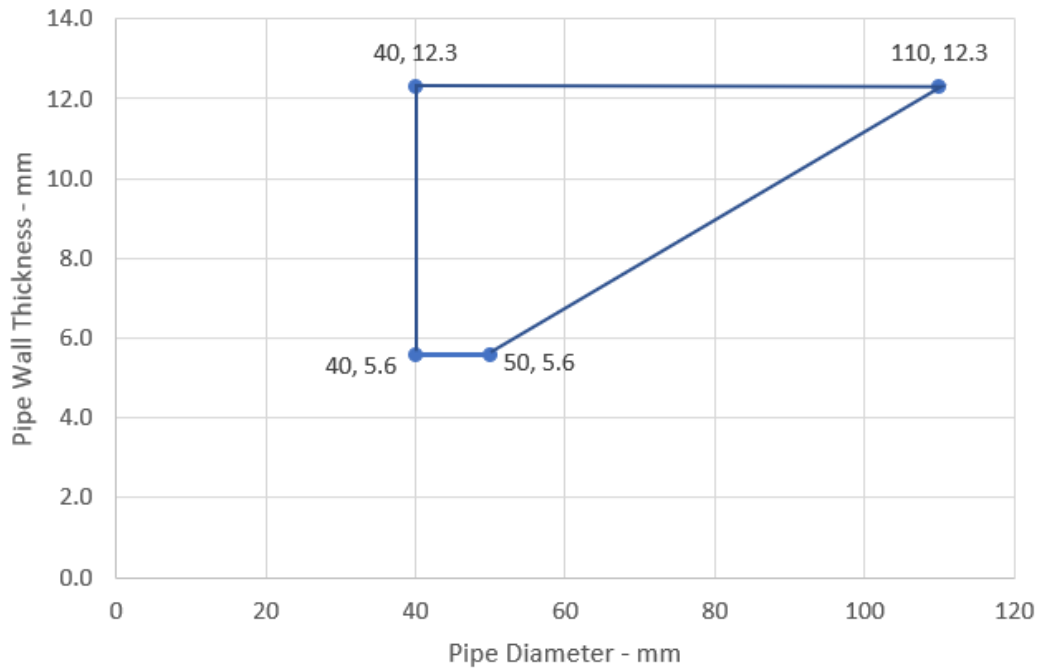
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### Rehau Raupiano Plus -EI 120 U/U



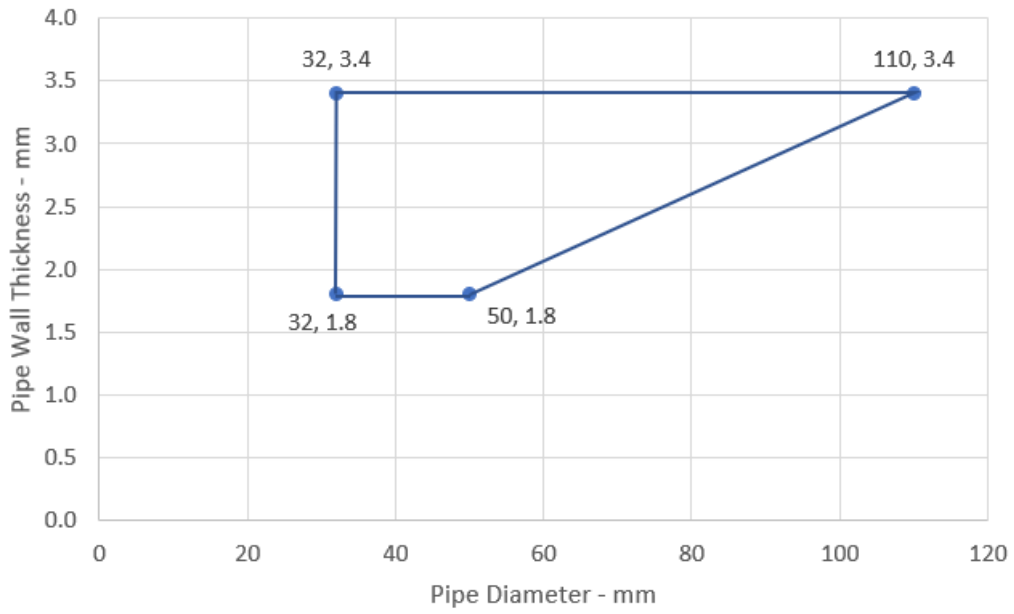
### Aquatherm Green - EI 240 C/C



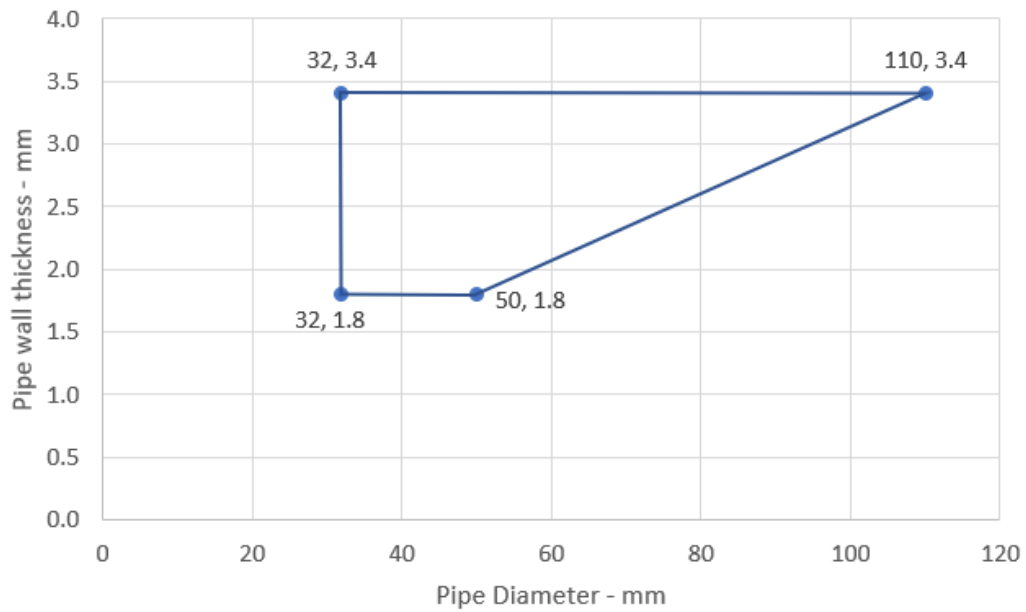
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### Wavin SiTech Pipes - EI 120 U/C



### Gilbert Silent PP - EI 120 U/C



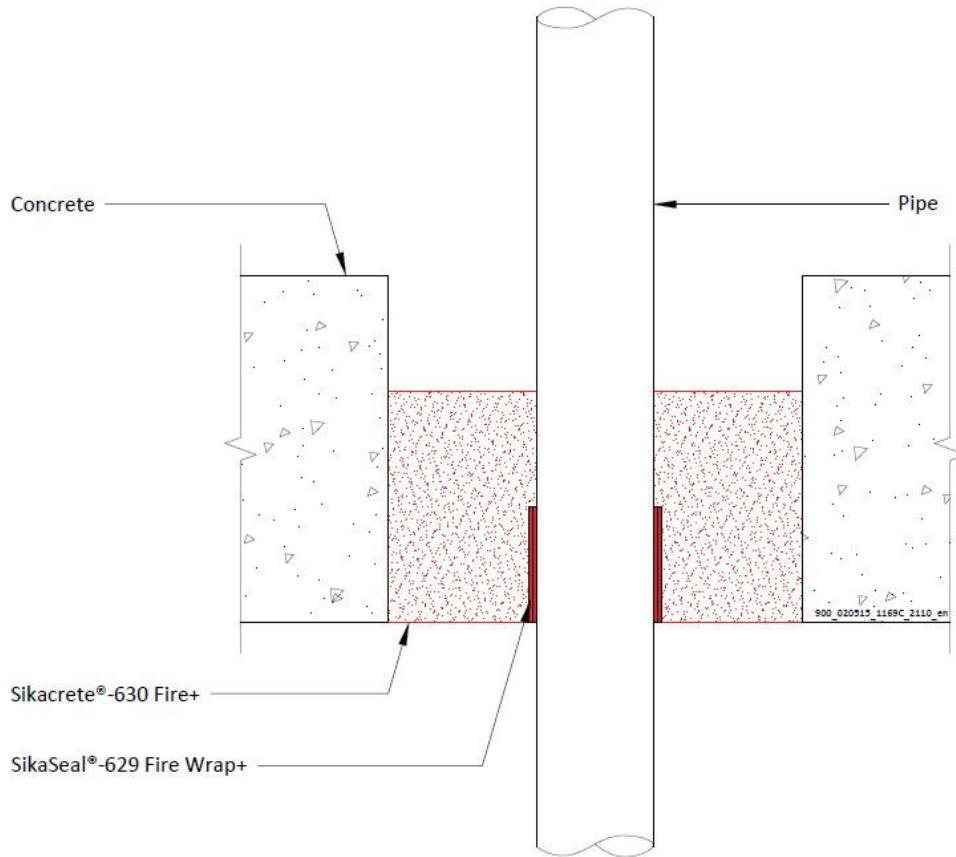
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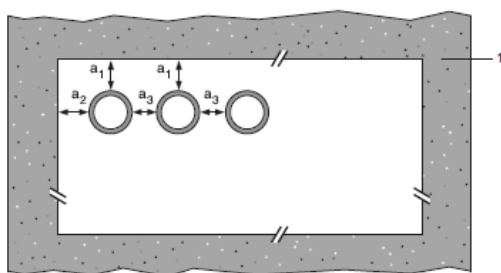
## A.2.6 SikaSeal-629 Fire Wrap+ penetration seals, in Sikacrete-630 Fire+ seals in rigid floors, with plastic pipes

**Penetration Seal:** Plastic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges and from other services), with Sikacrete-630 Fire+ to the bottom surface of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted to the bottom of the seal, as indicated below. Maximum seal size 2400 mm x 1200 mm.

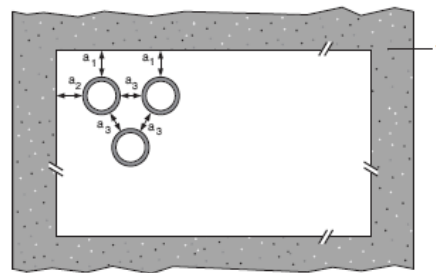
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

**Declaration of Performance**

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### A.2.6.1

Services	Wrap	Permitted configuration for seal separation	Mortar depth	Classification
<b>PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1</b>				
Diameter 41 mm, wall thickness 1.8-3.7 mm to diameter 125 mm, wall thickness 4.8-7.4 mm*	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	150 mm	EI 60 U/U
125 mm diameter / 7.4 mm wall	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	150 mm	EI 120 U/U
Diameter 126 mm, wall thickness 4.8-7.4 mm to diameter 160 mm, wall thickness 9.5 mm*	75 x 10.8 mm (6 x 1.8 layers)	1	150 mm	E 120 U/U, EI 30 U/U
160 mm diameter / 9.5 mm wall	75 x 7.2 mm (4 x 1.8 layers)	1	150 mm	E 120 U/U, EI 30 U/U
160 mm diameter / 4.5-9.5 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	120 mm	EI 120 U/C, EI 120 C/C
315 mm diameter / 7.7 mm wall thickness	75 x 18 mm (10 x 1.8 layers)	1	120 mm	EI 120 C/C
Diameter 161 mm, wall thickness 4.5-9.5 mm to diameter 315 mm, wall thickness 7.7-12.1 mm*	75 x 18 mm (10 x 1.8 layers)	1	120 mm	EI 90 C/C
315 mm diameter / 12.1 mm wall thickness	75 x 18 mm (10 x 1.8 layers)	1	120 mm	EI 90 C/C
<b>PP pipe according to EN 1451-1</b>				
Diameter 41 mm, wall thickness 1.8-5.5 mm to diameter 160 mm, wall thickness 4.9-14.6 mm*	75 x 10.8 mm (6 x 1.8 layers)	1 & 2	150 mm	EI 120 U/C
160 mm diameter / 14.6 mm wall	75 x 7.2 mm (4 x 1.8 layers)	1 & 2	150 mm	EI 240 U/U
Diameter 161 mm, wall thickness 4.9-14.6 mm to diameter 200 mm, wall thickness 4.9-18.2 mm*	75 x 10.8 mm (6 x 1.8 layers)	1 & 2	120 mm	EI 240 C/C
Diameter 201 mm, wall thickness 4.9-18.2 mm to diameter 315 mm, wall thickness 7.7-28.6 mm*	75 x 18 mm (10 x 1.8 layers)	N/A	150 mm	EI 60 C/C
315 mm diameter / 7.7 mm wall	75 x 18 mm (10 x 1.8 layers)	N/A	150 mm	EI 180 C/C
315 mm diameter / 7.7-28.6 mm wall	75 x 18 mm (10 x 1.8 layers)	1	150 mm	EI 60 C/C

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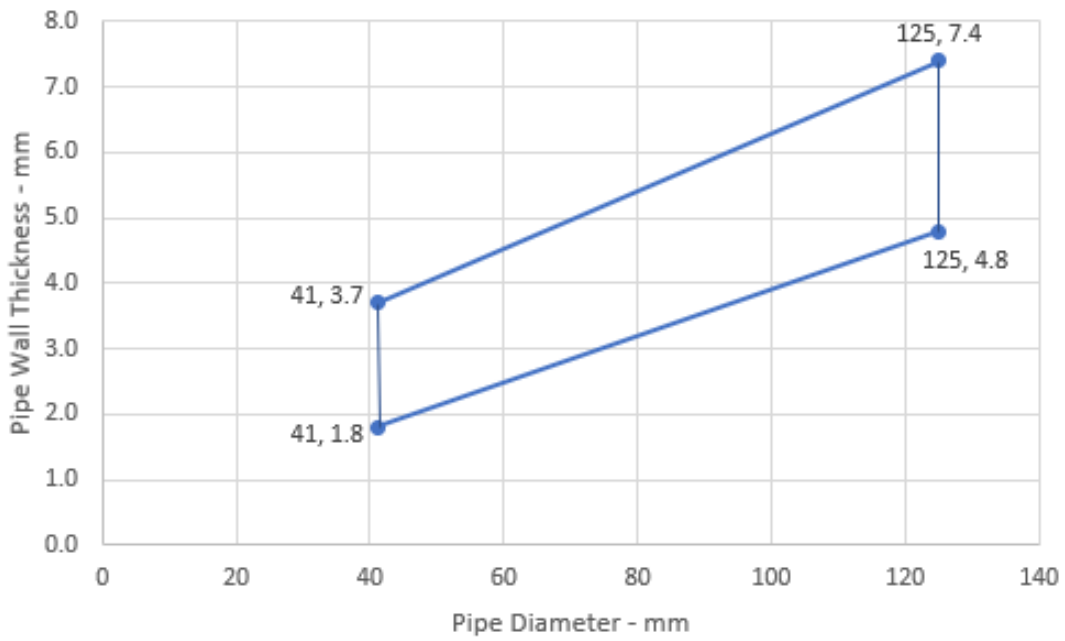
Services	Wrap	Permitted configuration for seal separation	Mortar depth	Classification
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>				
Diameter 126 mm, wall thickness 3.9-11.4 mm to diameter 160 mm, wall thickness 14.6*	75 x 18 mm (10 x 1.8 layers)	N/A	150 mm	<b>E 240 U/U, EI 120 U/U</b>
160 mm diameter / 14.6 mm wall	75 x 7.2 mm (4 x 1.8 layers)	1 & 2	150 mm	<b>E 240 U/U, EI 120 U/U</b>
Diameter 161 mm, wall thickness 4.9-14.6 mm to diameter 315 mm, wall thickness 9.7-18.7 mm*	75 x 18 mm (10 x 1.8 layers)	N/A	150 mm	<b>EI 60 C/C</b>

\* Typical pipe diameters shown, see below graph for intermediate sizes

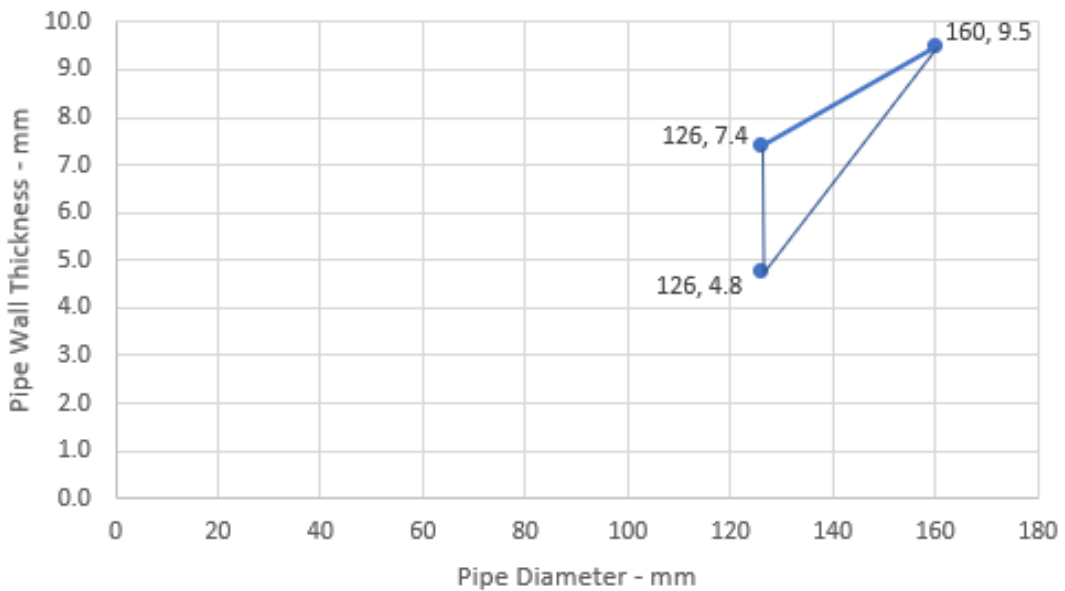
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### PVC-U Pipes 41-125 mm Diameter - EI 60 U/U



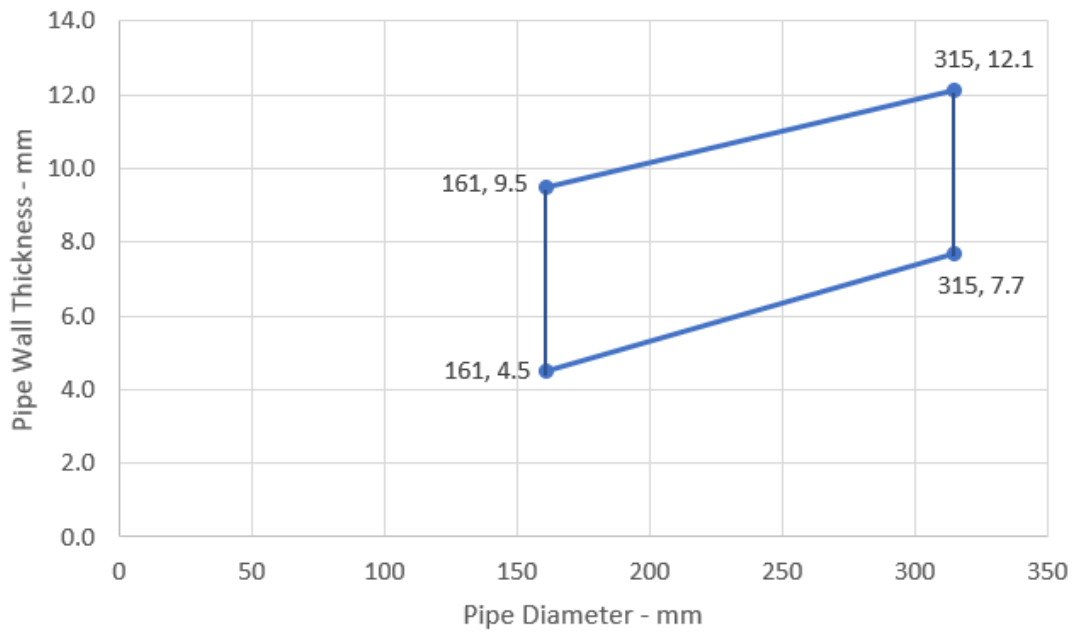
### PVC-U Pipes 126-160 mm Diameter - E 120 U/U, EI 30 U/U



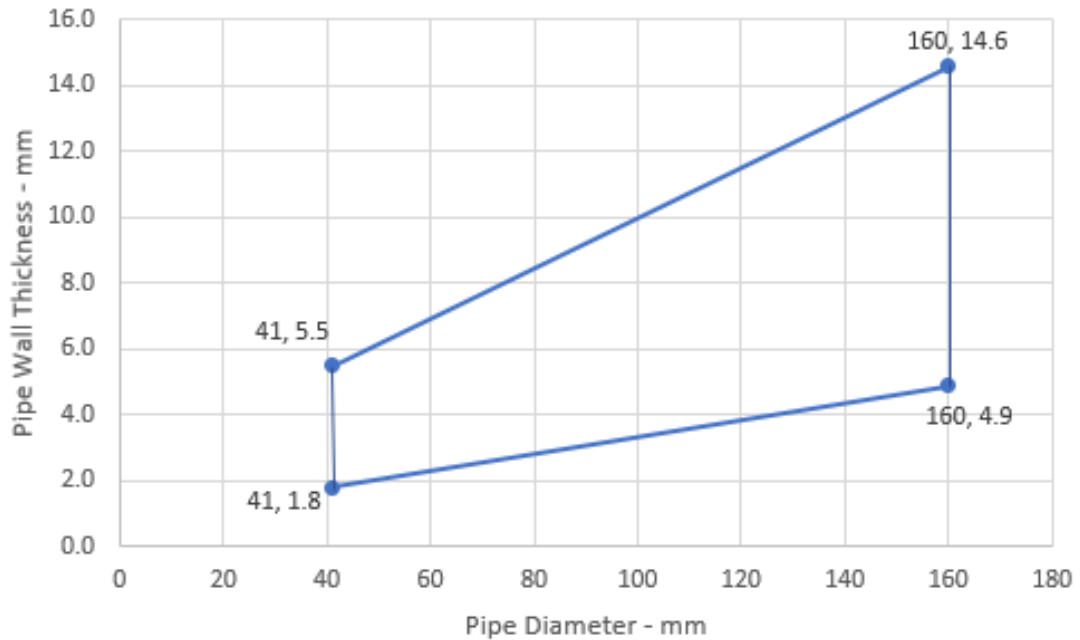
#### Declaration of Performance

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### PVC-U Pipes - EI 90 C/C



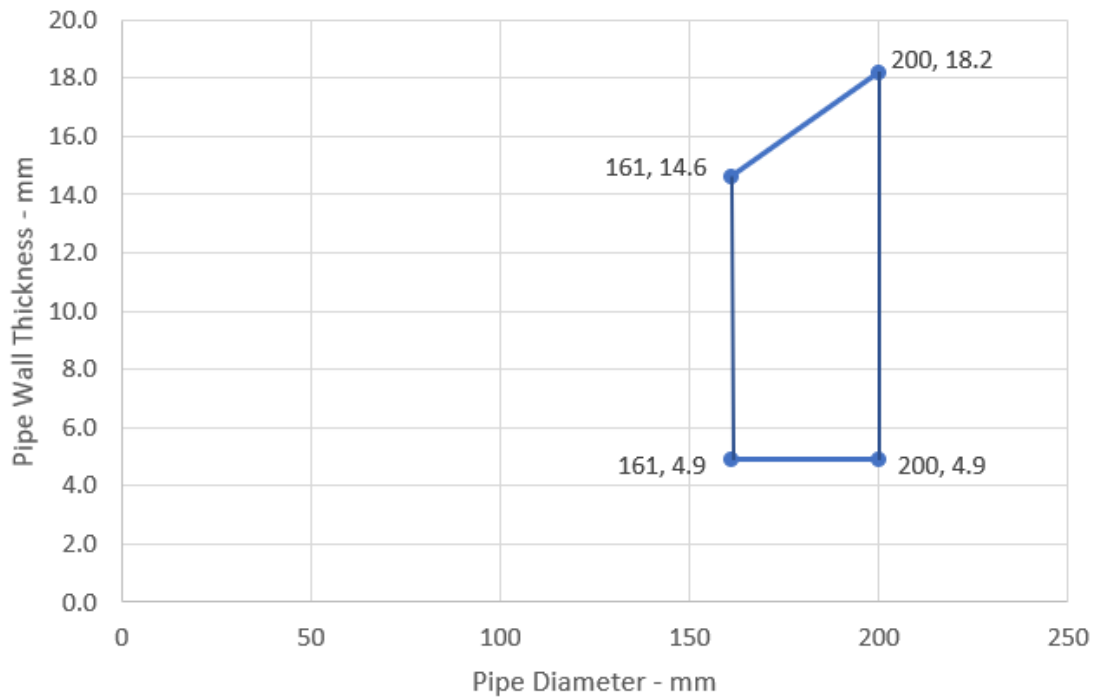
### PP Pipes 41-160 mm Diameter - EI 120 U/C



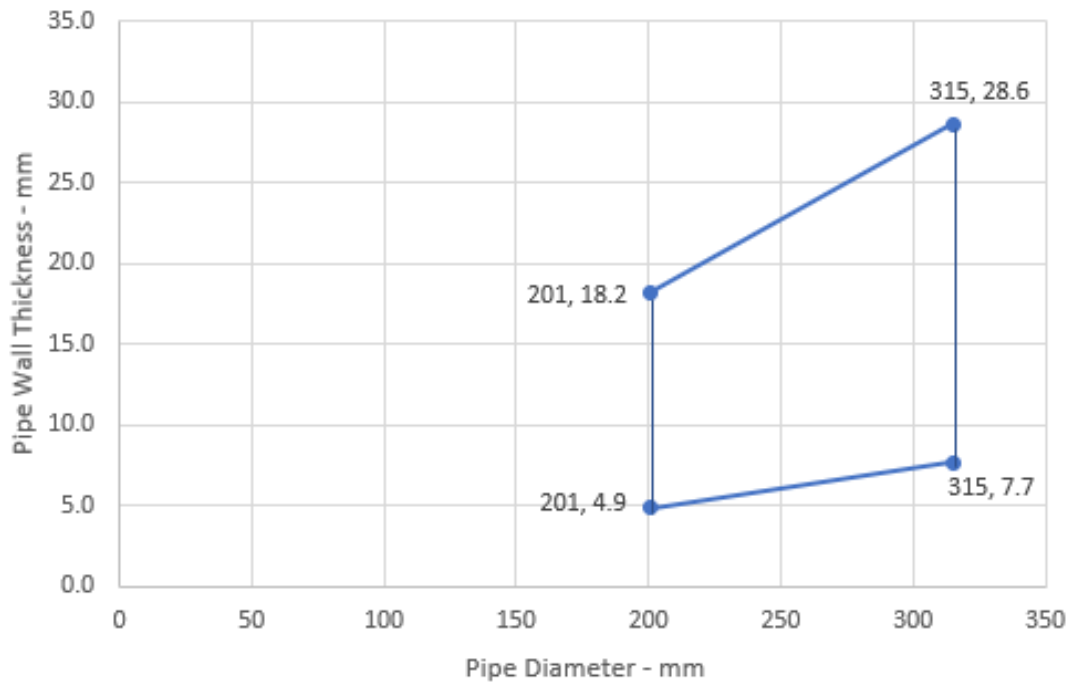
#### Declaration of Performance

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### PP Pipes - EI 240 C/C



### PP Pipes - EI 60 C/C



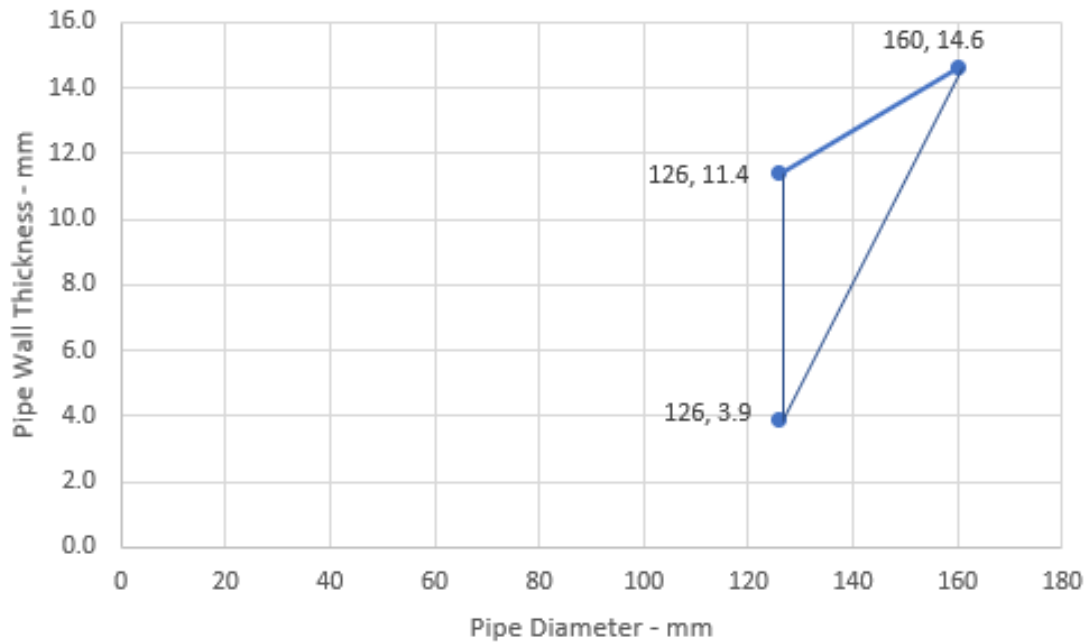
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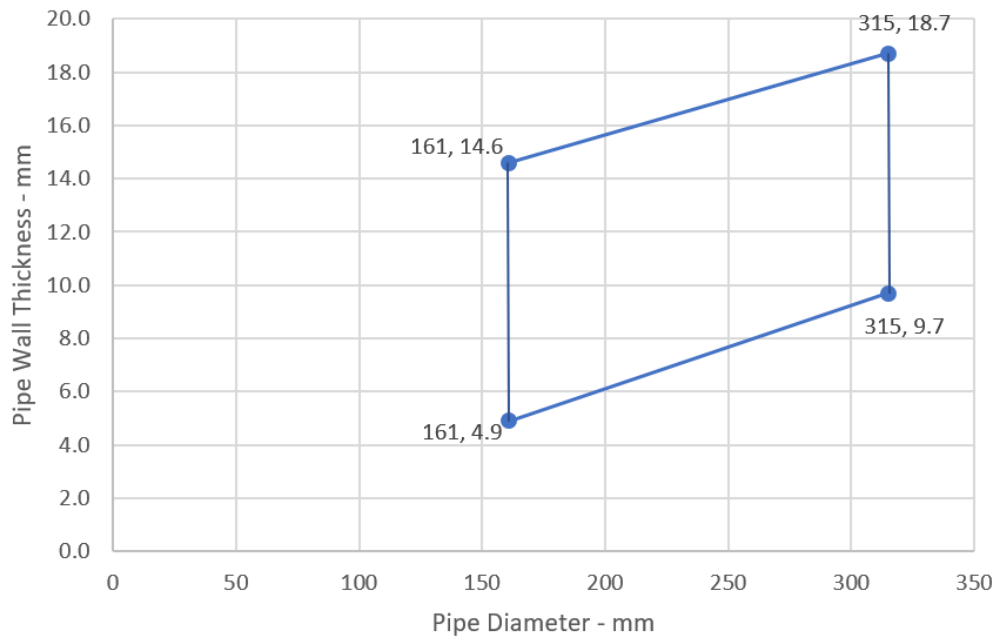




### PE Pipes 126-160 mm Diameter - E 240 U/U, EI 120 U/U



### PE Pipes - EI 60 C/C



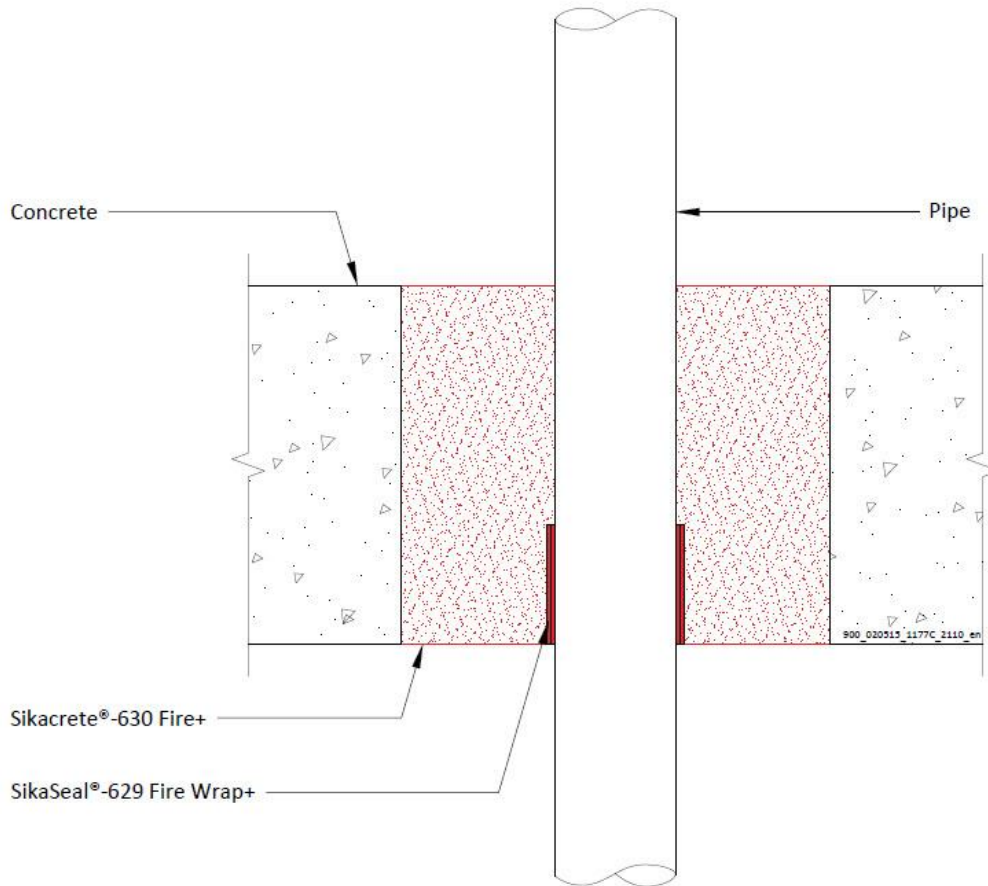
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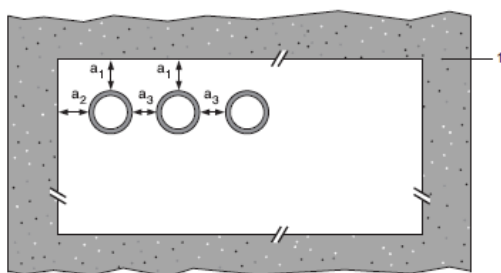
## A.2.7 SikaSeal-629 Fire Wrap+ penetration seals, in 150 mm thick Sikacrete-630 Fire+ seals in rigid floors, with plastic pipes

**Penetration Seal:** Plastic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges and from other services), with 150 mm Sikacrete-630 Fire+ to the bottom surface of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted to the bottom of the seal, as indicated below. Maximum seal size 2400 mm x 1200 mm.

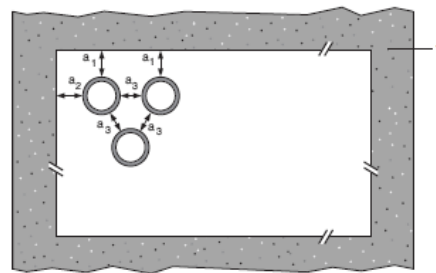
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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### A.2.7.1

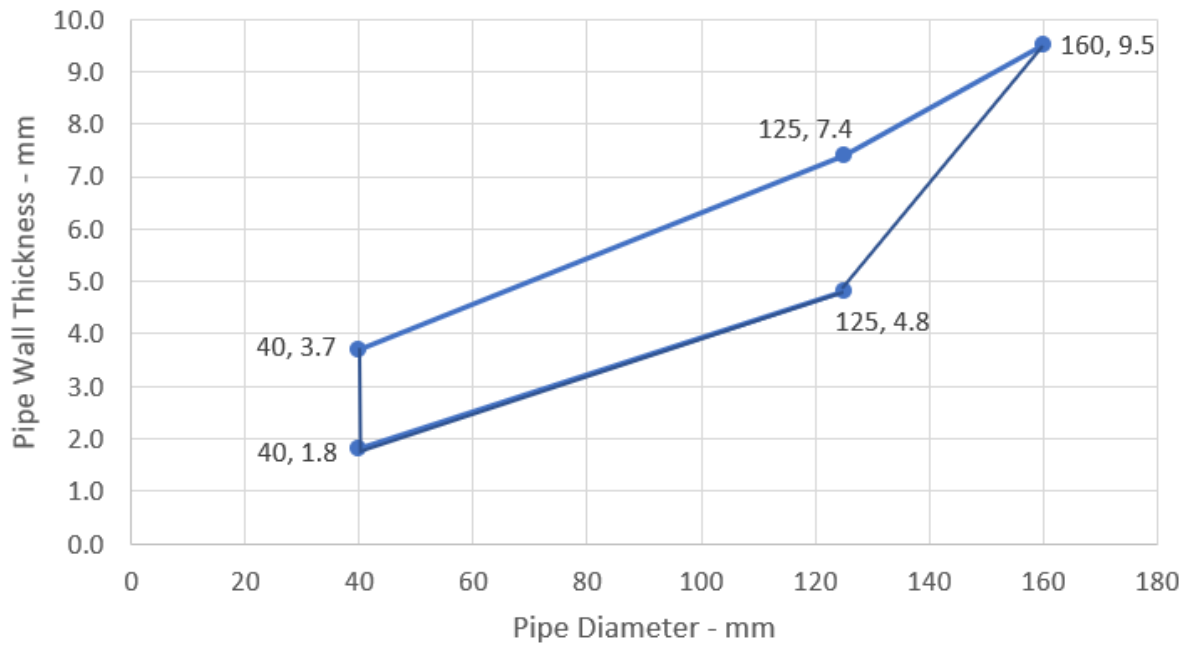
Services	Wrap	Permitted configuration for seal separation	Classification
<b>PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1</b>			
Up to 40 mm diameter/1.8-3.7 mm wall*	50 x 1.8	1 & 2	EI 120 U/U
Up to 125 mm diameter / 4.8-7.4 mm wall*	50 x 7.2 mm		EI 60 U/U
Up to 160 mm diameter/9.5 mm wall*	75 x 7.2 mm		E 120 U/U, EI 30 U/U
<b>PP pipe according to EN 1451-1</b>			
Up to 40 mm diameter/1.8-5.5 mm wall*	50 x 1.8	1 & 2	EI 120 U/U
Up to 125 mm diameter / 11.4 mm wall*	50 x 7.2 mm		EI 240 U/U
Up to 160 mm diameter/14.6 mm wall*	75 x 7.2 mm		EI 240 U/U
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>			
Up to 40 mm diameter/2.4-3.7 mm wall*	50 x 1.8 mm	1 & 2	EI 240 U/U
Up to 110 mm diameter/3.4-10 mm wall*	75 x 5.4 mm		EI 240 U/U
Up to 125 mm diameter/11.4 mm wall*	50 x 7.2 mm		EI 240 U/U
Up to 160 mm diameter/4.9-14.6 mm wall*	75 x 7.2 mm		EI 120 U/U

\* Typical pipe diameters shown, see below graph for intermediate sizes

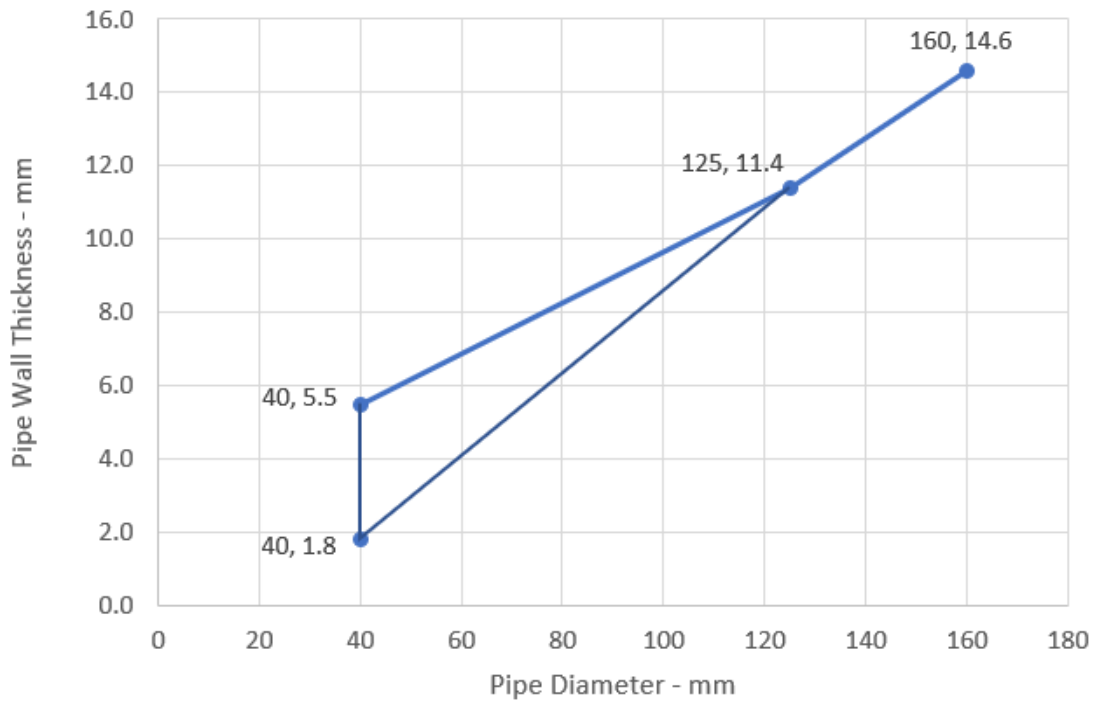
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### PVC-U Pipes - E 60 U/U, EI 30 U/U



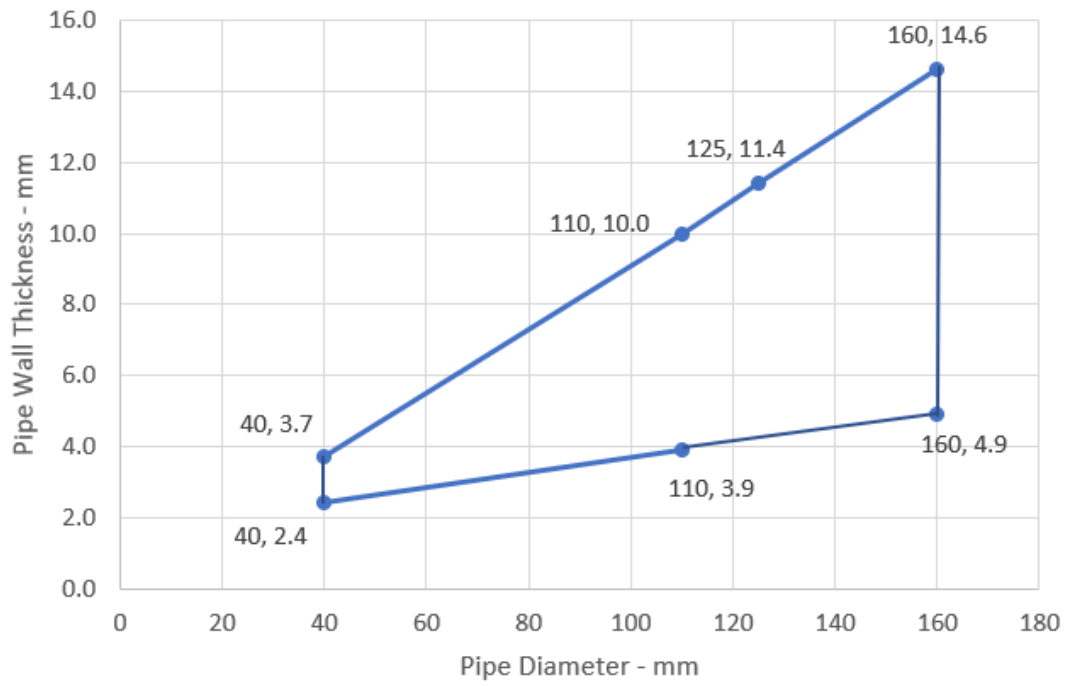
### PP Pipes - E 120 U/U



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## PE Pipes - EI 120 U/U



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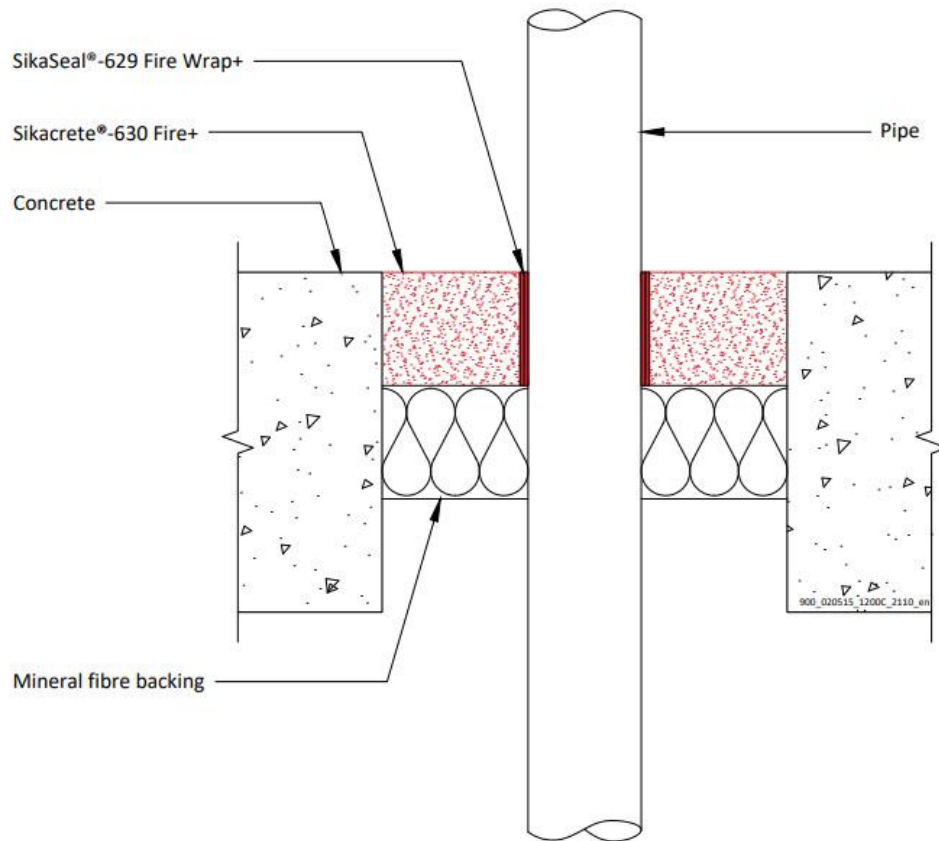
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**A.2.8 SikaSeal-629 Fire Wrap+ penetration seals, in 50 mm deep Sikacrete-630 Fire+ seals, backed with 50 mm stone wool, in rigid floors, with plastic pipes**

**Penetration Seal:** Plastic pipes (single) fitted at any position within the aperture (min. separation 30 mm from seal edges and 30 mm from other services), with 50 mm Sikacrete-630 Fire+ flush with the top of floor, backed with 50 mm stone wool 150 kg/m<sup>3</sup>. SikaSeal-629 Fire Wrap+ are required to be fitted into the mortar seal.

Construction details:



**A.2.8.1**

Services	Wrap	Maximum aperture	Classification
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>			
110 mm diameter / 4.3 mm wall	50 x 2 mm	2400 x 1200 mm	<b>EI 60 C/C</b>

**Declaration of Performance**

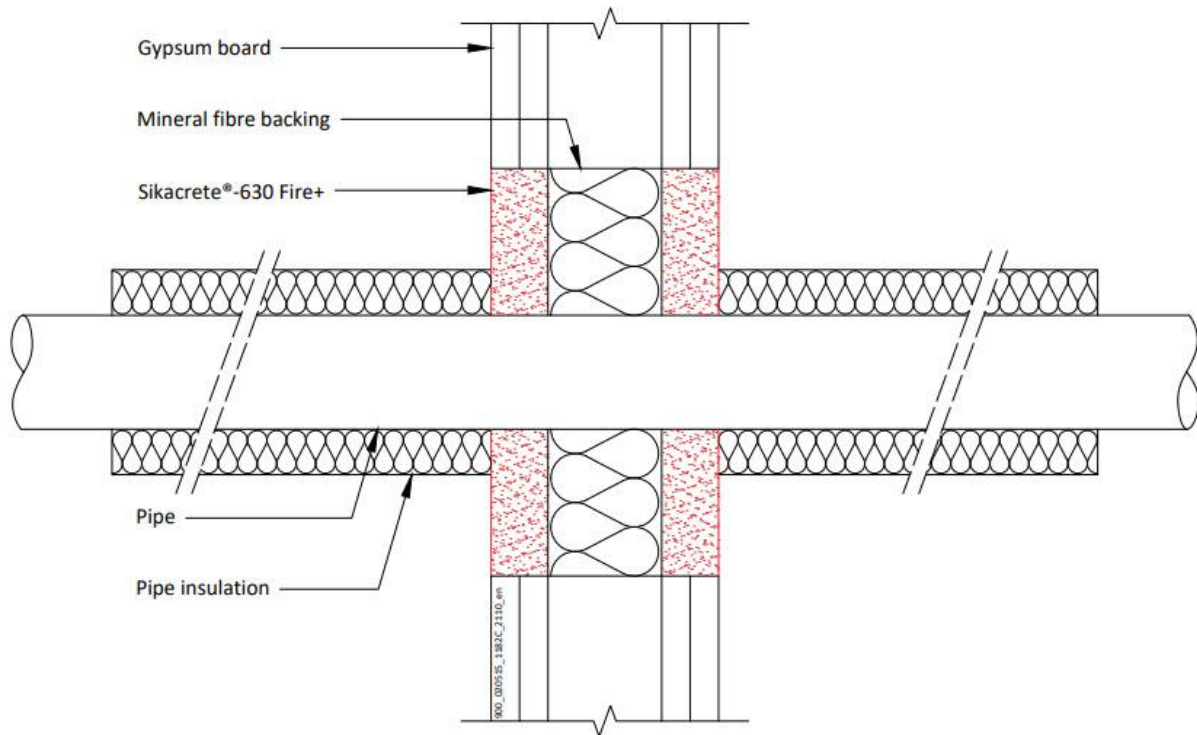
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### A.3 Flexible and rigid wall constructions with a minimum thickness 100 mm

#### A.3.1 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in seals comprising 25 mm deep Sikacrete-630 Fire+ to both faces backed with 50 mm mineral fibre board, installed within flexible or rigid wall

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges), with 25 mm Sikacrete-630 Fire+ to both sides of the wall, backed with 50 mm stone wool board 150 kg/m<sup>3</sup> or 50 mm Sikacrete-630 Fire+ to both sides of the wall without backing\*. SikaSeal-629 Fire Wrap+ are required to be fitted to both faces of the seal.

Construction details:



\* Maximum seal size of 2400 mm wide x 1200 mm high

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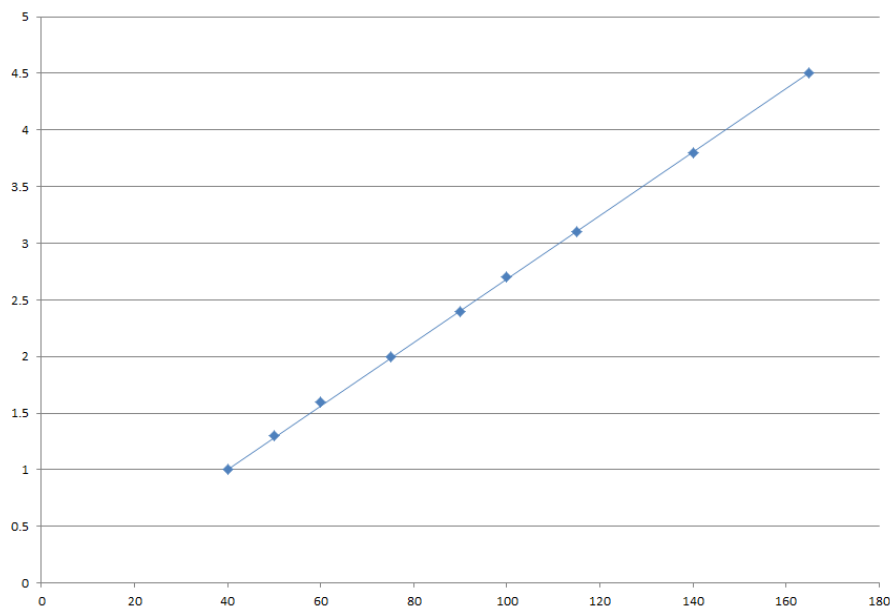


### A.3.1.1

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall	2 off 50 x 1.8 mm SikaSeal-629 Fire Wrap+, one fitted flush to each face of seal		EI 120 C/U
40 mm diameter/1-14.2 mm wall*		13 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 C/U, EI 60 C/U
50 mm diameter/1.3-14.2 mm wall*			
60 mm diameter/1.6-14.2 mm wall*			
75 mm diameter/2-14.2 mm wall*	2 off 50 x 3.6 mm SikaSeal-629 Fire Wrap+, one fitted flush to each face of seal		
90 mm diameter/2.4-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3.1-14.2 mm wall*			
140 mm diameter/3.8-14.2 mm wall*			
165 mm diameter/ 4.5-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

Pipe diameter vs Wall thickness



#### Declaration of Performance

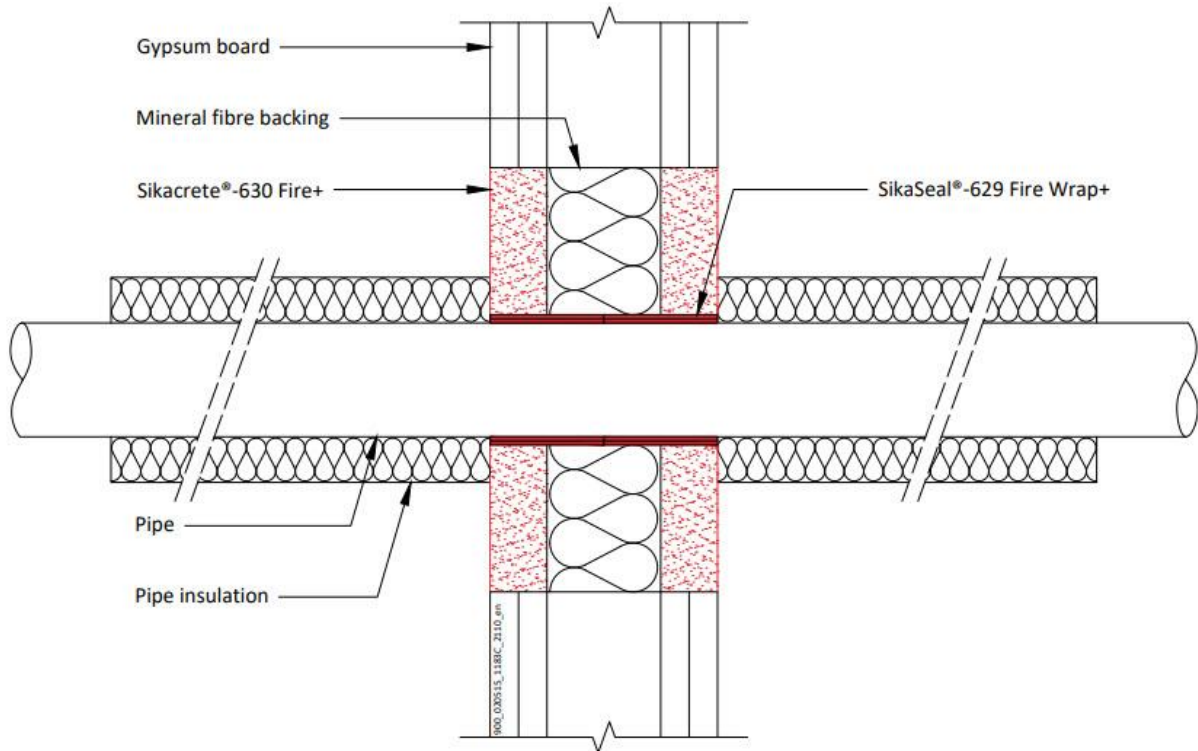
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**A.3.2 SikaSeal-629 Fire Wrap+ penetration seal for composite pipes, in seals comprising 25 mm deep Sikacrete-630 Fire+ to both faces backed with 50 mm mineral fibre board, installed within flexible or rigid wall**

**Penetration Seal:** 500 mm (min.)\* LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic ( and composite) pipes (single) fitted at any position within the aperture (min. separation 30 mm from seal edges and from other services), with 25 mm Sikacrete-630 Fire+ to both sides of the wall backed with 50 mm stone wool board 150 kg/m<sup>3</sup>. Maximum seal size 2400 mm wide x 1200 mm high

Construction details:



**A.3.2.1**

Services	Insulation	Classification
Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD) pipe	Minimum 20 mm stone wool, minimum 80 kg/m <sup>3</sup>	EI 120 C/C
16 mm diameter/2.25 mm wall		
20 mm diameter/2.5 mm wall		
26 mm diameter/3 mm wall		
32 mm diameter/3 mm wall		
40 mm diameter/3.5 mm wall		
50 mm diameter/4 mm wall		
63 mm diameter/4.5 mm wall		
75 mm diameter/4.7 mm wall		

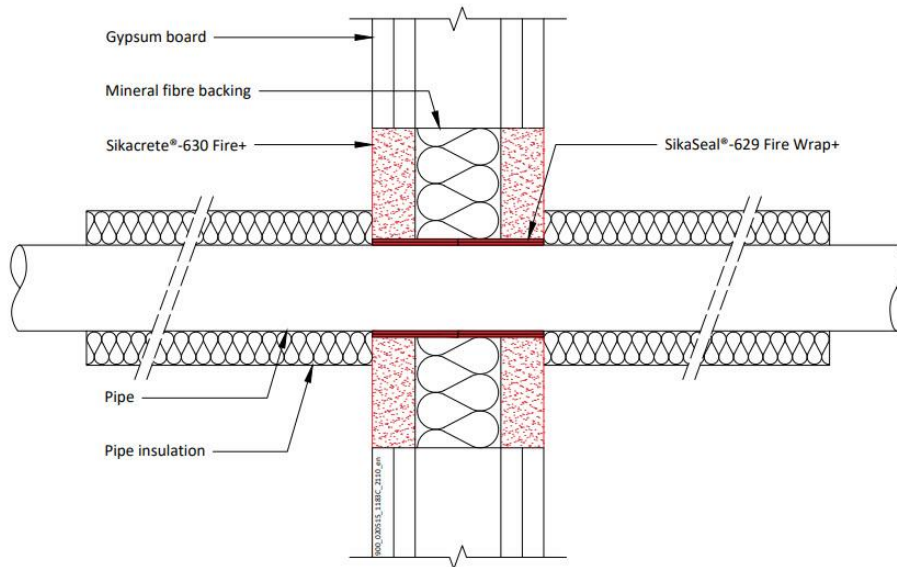
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**A.3.3 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal & composite pipes, in seals comprising 25 mm deep Sikacrete-630 Fire+ to both faces backed with 50 mm mineral fibre board, installed within flexible or rigid wall**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic and composite pipes fitted at any position within the aperture (min. separation 25 mm from seal edges), with 25 mm Sikacrete-630 Fire+ to both sides of the wall, backed with 25 mm stone wool 150 kg/m<sup>3</sup>\*. SikaSeal-629 Fire Wrap+ are required to be fitted to both faces of the seal. Maximum seal size 2400 mm wide x 1200 mm long

Construction details:



**A.3.3.1**

Services	Wrap	Insulation	Classification
Copper pipe			
12-54 mm diameter/1-1.2 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 C/C
Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD pipe)			
16 mm diameter/2.25 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 C/C
20 mm diameter/2.5 mm wall			
26 mm diameter/3 mm wall			
32 mm diameter/3 mm wall			
40 mm diameter/3.5 mm wall			
50 mm diameter/4 mm wall			
63 mm diameter/4.5 mm wall			
75 mm diameter/4.7 mm wall			

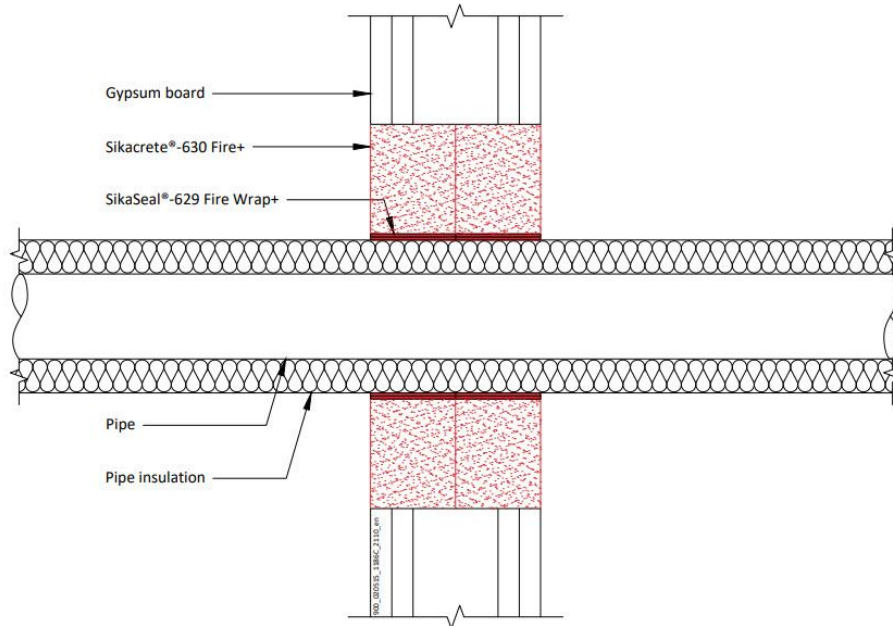
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**A.3.4 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in seals comprising 50 mm deep Sikacrete-630 Fire+ to both faces, installed within flexible or rigid wall**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture (min. separation 30 mm from seal edges), 50 mm Sikacrete-630 Fire+ to both sides of the wall without backing\*. SikaSeal-629 Fire Wrap+ are required to be fitted to both faces of the seal.

Construction details:



\* Maximum seal size of 2400 mm wide x 1200 mm high

**A.3.4.1**

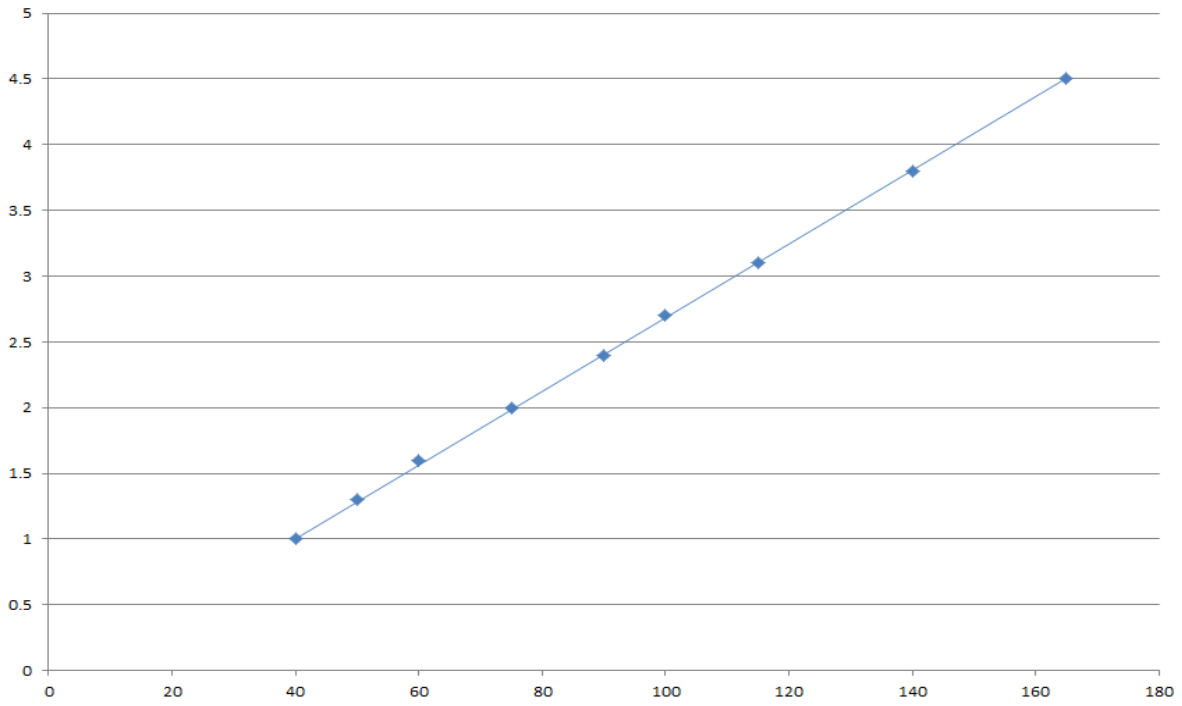
Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall*	2 off 50 x 3.6 mm SikaSeal-629 Fire Wrap+, one fitted flush to each face of seal	13 -32 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	<b>E 120 C/U, EI 60 C/U</b>
50 mm diameter/1.3-14.2 mm wall*			
60 mm diameter/1.6-14.2 mm wall*			
75 mm diameter/2-14.2 mm wall*			
90 mm diameter/2.4-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3.1-14.2 mm wall*			
140 mm diameter/3.8-14.2 mm wall*			
165 mm diameter/ 4.5-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

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**Pipe diameter vs Wall thickness**



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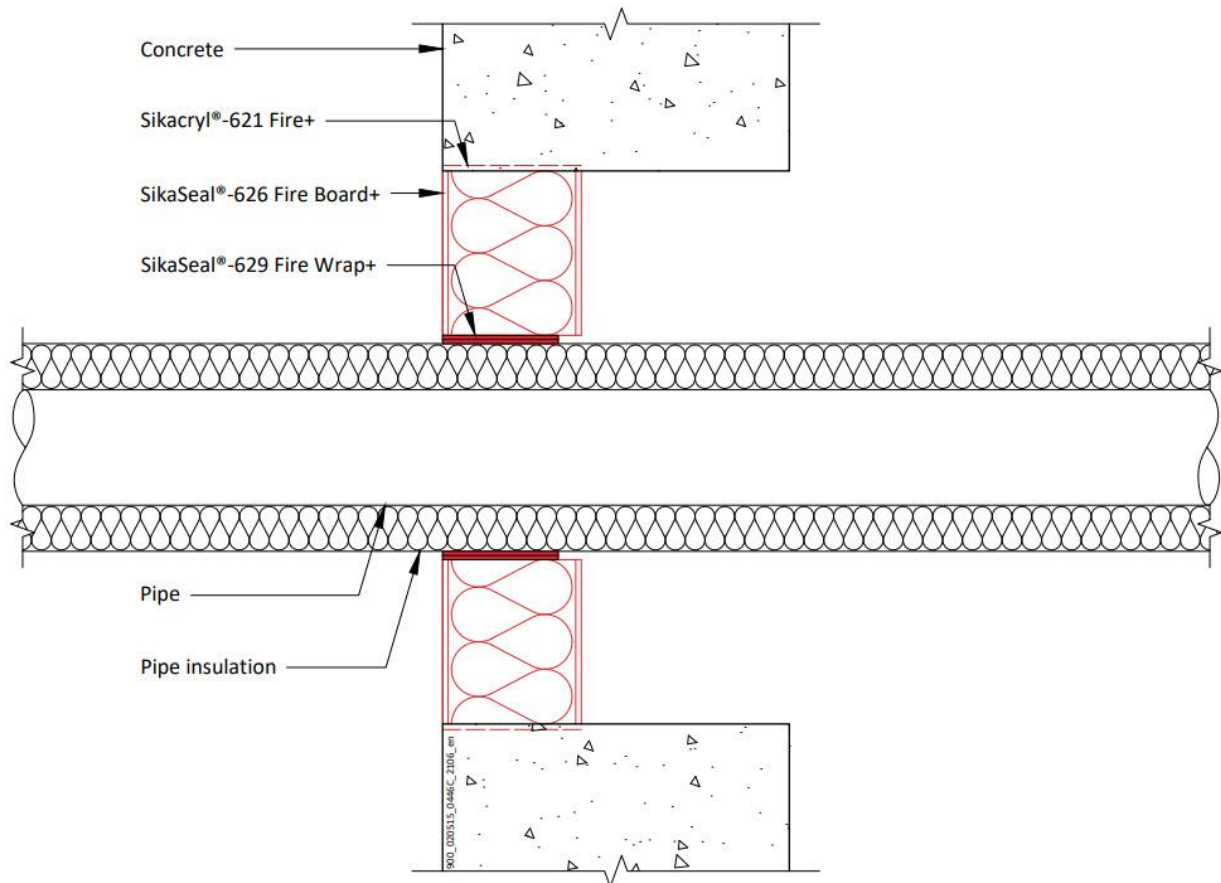


#### A.4 Rigid wall constructions with floor thickness of minimum 150 mm

##### A.4.1 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 1x SikaSeal-626 Fire Board+ 2-S seals, in rigid walls

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 60 mm SikaSeal-626 Fire Board+ 2-S to either side of the wall (or anywhere in between). SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation.

Construction details:



##### A.4.1.1

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
165 mm diameter/ 4.5-14.2 mm wall	50 x 1.8 mm SikaSeal-629 Fire Wrap+ fitted centrally	9-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 U/C, E 120 C/U, E 120 C/C, EI 45 U/C, EI 45 C/U, EI 45 C/C

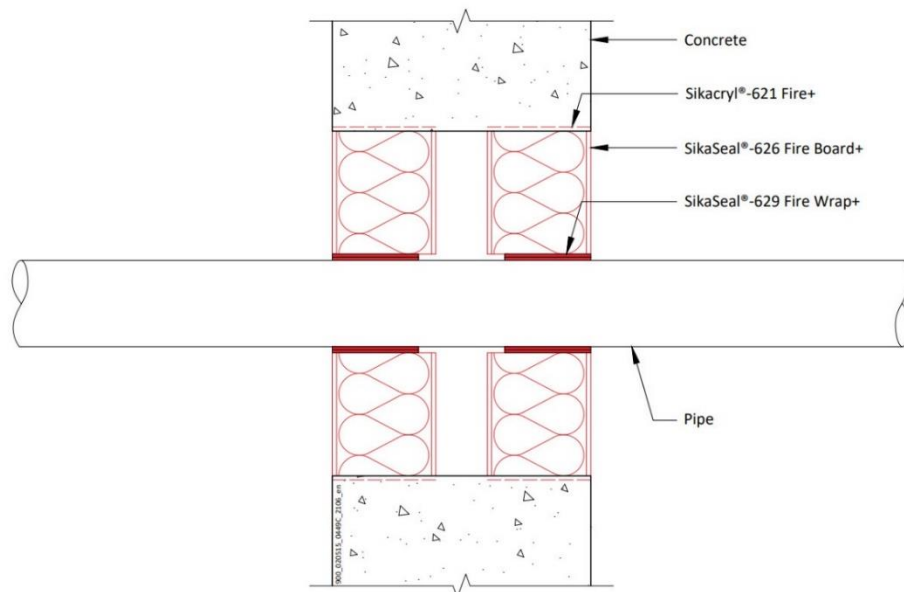
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#### A.4.2 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 2-S seals, in rigid walls

**Penetration Seal:** Plastic pipes fitted at any position within the aperture, with 60 mm SikaSeal-626 Fire Board+ 2-S to both sides of the wall. SikaSeal-629 Fire Wrap+ are required to be fitted around pipes. Min. 30 mm separation between pipes.

Construction details:



##### A.4.2.1

Services	Wrap	Classification
<b>PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1</b>		
Up to 40 mm diameter / 1.9-3.0 mm wall	50 x 1.8 mm	EI 240 U/C
Up to 110 mm diameter / 2.7-6.6 mm wall	50 x 3.6 mm	
Up to 125 mm diameter / 4.7-7.4 mm wall	50 x 7.2 mm	
Up to 160 mm diameter / 4.0-9.5 mm wall*	50 x 10.8 mm	
Up to 315 mm diameter/7.7-12.1 mm wall thickness*#	75 x 18 mm	EI 120 C/C
Up to 400 mm diameter/9.8-15.3 mm wall thickness*#	75 x 28.8 mm	EI 120 C/C
<b>PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1</b>		
Up to 40 mm diameter / 2.4-4.6 mm wall	50 x 1.8 mm	EI 240 U/C
Up to 110 mm diameter / 3.4-10.0 mm wall	50 x 3.6 mm	
Up to 125 mm diameter / 3.9-7.4 mm wall	50 x 7.2 mm	
Up to 160 mm diameter / 4.9-9.5 mm wall	50 x 10.8 mm	
<b>PP pipe according to EN 1451-1</b>		
Up to 40 mm diameter / 1.8-5.5 mm wall	50 x 1.8 mm	EI 240 U/C
Up to 110 mm diameter / 2.7-10.0 mm wall	50 x 3.6 mm	EI 240 C/C
Up to 125 mm diameter / 3.1-11.4 mm wall	50 x 7.2 mm	
Up to 160 mm diameter / 4.9-14.6 mm wall	50 x 10.8 mm	

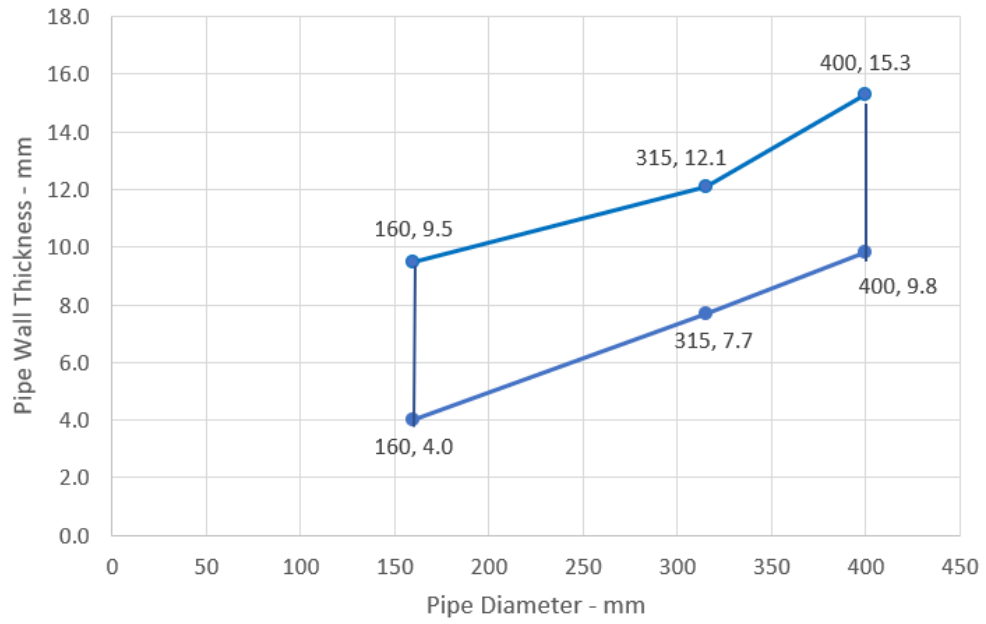
\* Typical pipe diameters shown, see below graph for intermediate sizes.

# Configuration 1 & 2

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### PVC-U Pipes - EI 120 C/C



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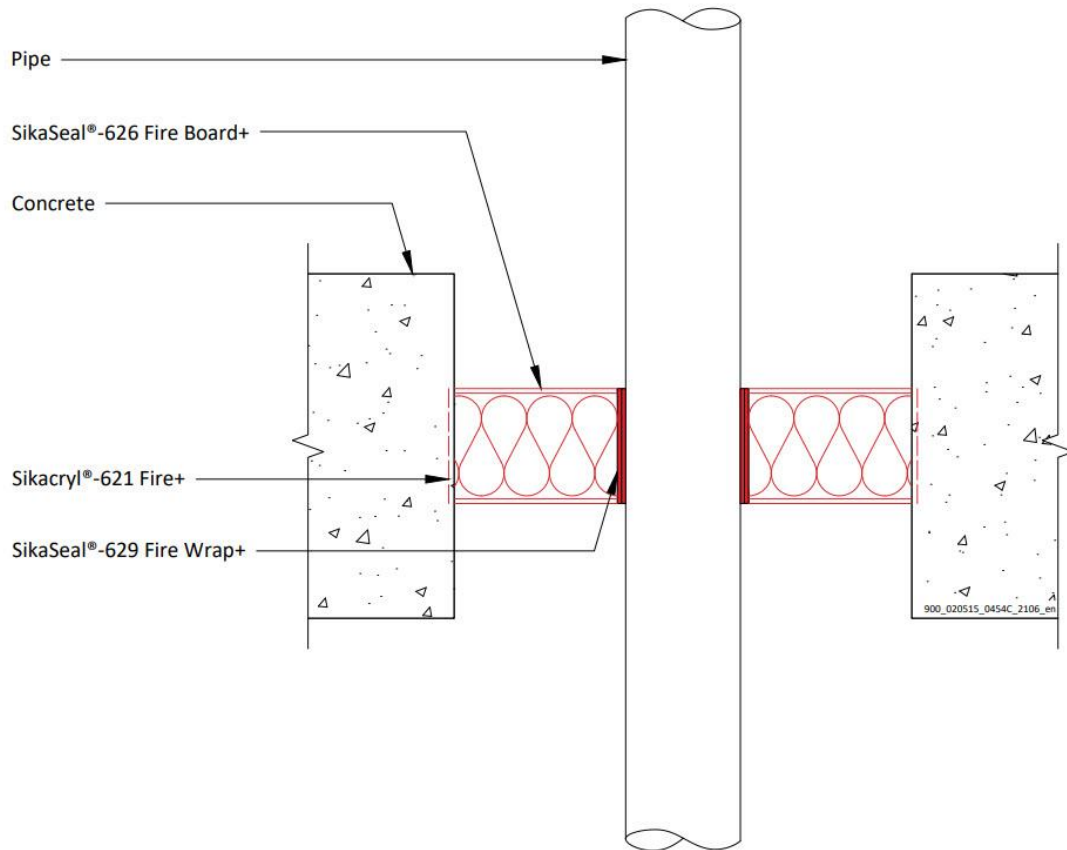


**A.5 Rigid floor constructions with floor thickness of minimum 150 mm**

**A.5.1 SikaSeal-629 Fire Wrap+ penetration seal for plastic pipes, in 1x SikaSeal-626 Fire Board+ 2-S, in rigid floors**

**Penetration Seal:** Combustible pipes fitted at any position within the aperture, with 50 mm SikaSeal-626 Fire Board+ 2-S at mid-depth of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation. Maximum aperture size 2400 mm x 1200 mm

Construction details:



**A.5.1.1**

Services	Wrap	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1* 110 mm diameter/ 3.4mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+	EI 90 U/C, EI 90 C/C

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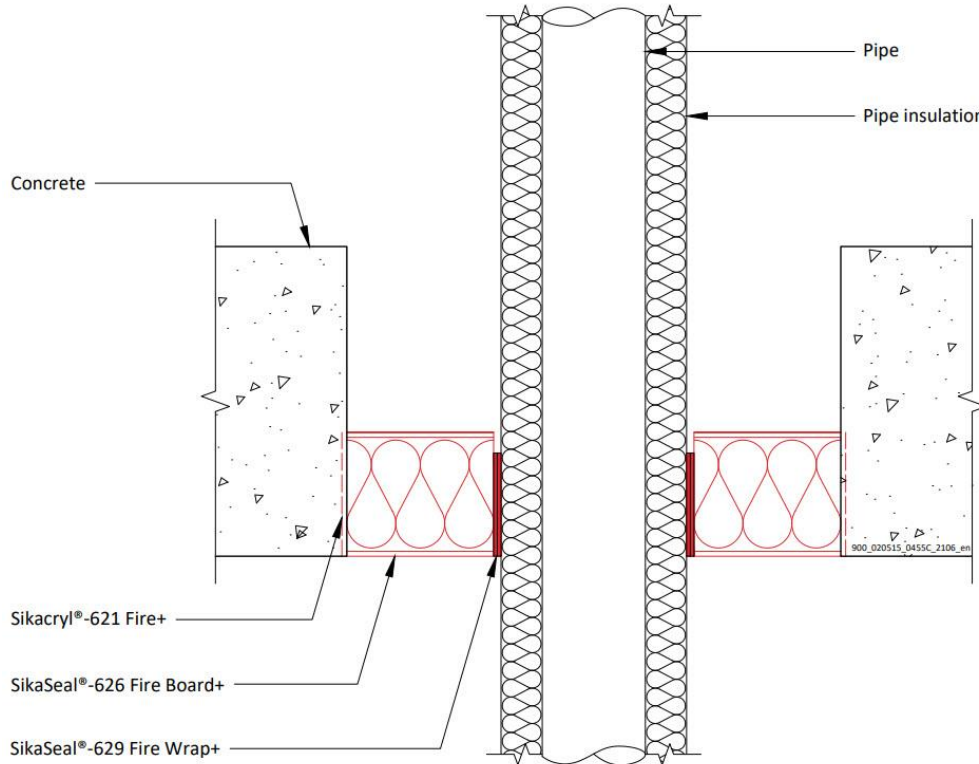
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**A.5.2 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 1x SikaSeal-626 Fire Board+ 2-S, in rigid floors**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 60 mm SikaSeal-626 Fire Board+ 2-S to either side of the floor (or anywhere in between). SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation. Maximum aperture size 2400 mm x 1200 mm

Construction details:



**A.5.2.1**

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
165 mm diameter/ 4.5-14.2 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted at bottom of seal	13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 90 C/U, EI 45 C/U</b>
		19 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>EI 90 C/U</b>

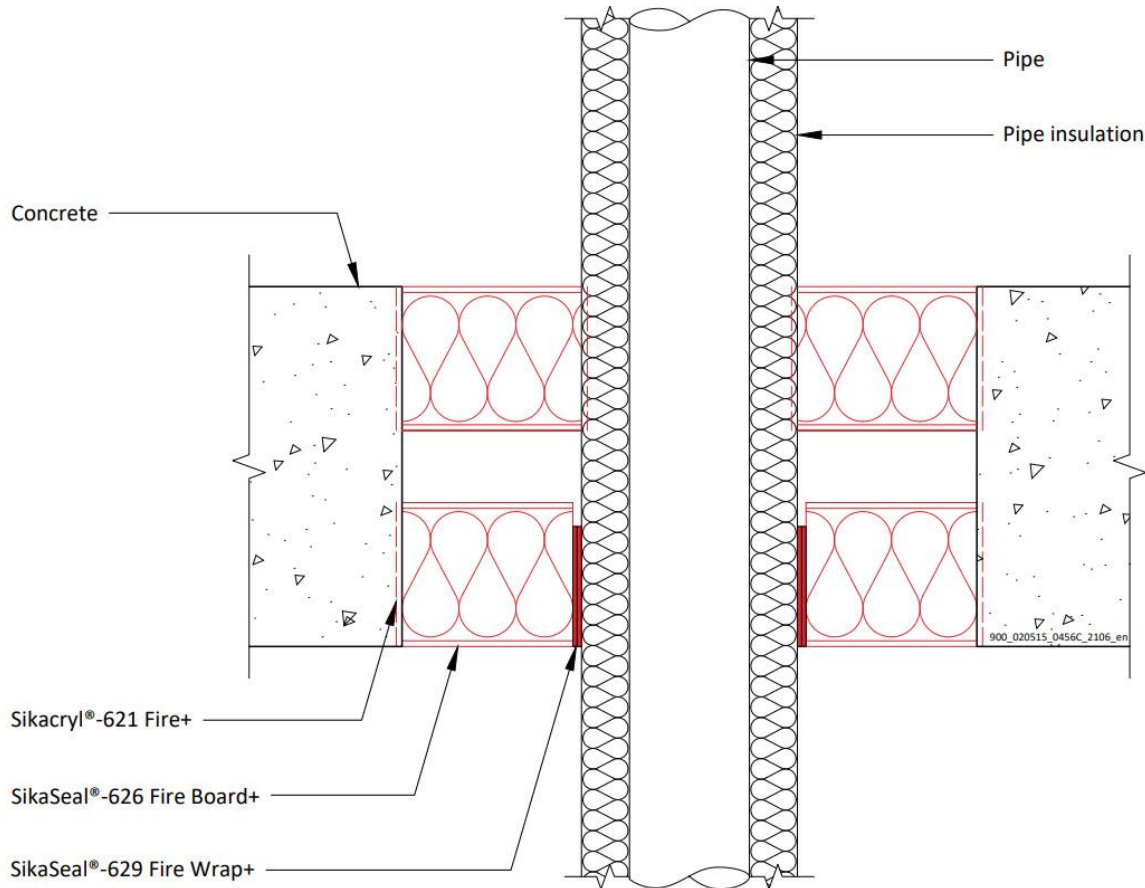
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### A.5.3 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes in 2x SikaSeal-626 Fire Board+ 2-S (separated), in rigid floors

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 60 mm SikaSeal-626 Fire Board+ 2-S to both sides of the floor. SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation at the soffit. Maximum aperture size 2400 mm x 1200 mm

Construction details:



#### A.5.3.1 Double side penetration seal with pipes

Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/ 1-14.2 mm wall	50 x 1.8 mm SikaSeal-629 Fire Wrap+	13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	<b>E 180 C/U, EI 120 C/U</b>

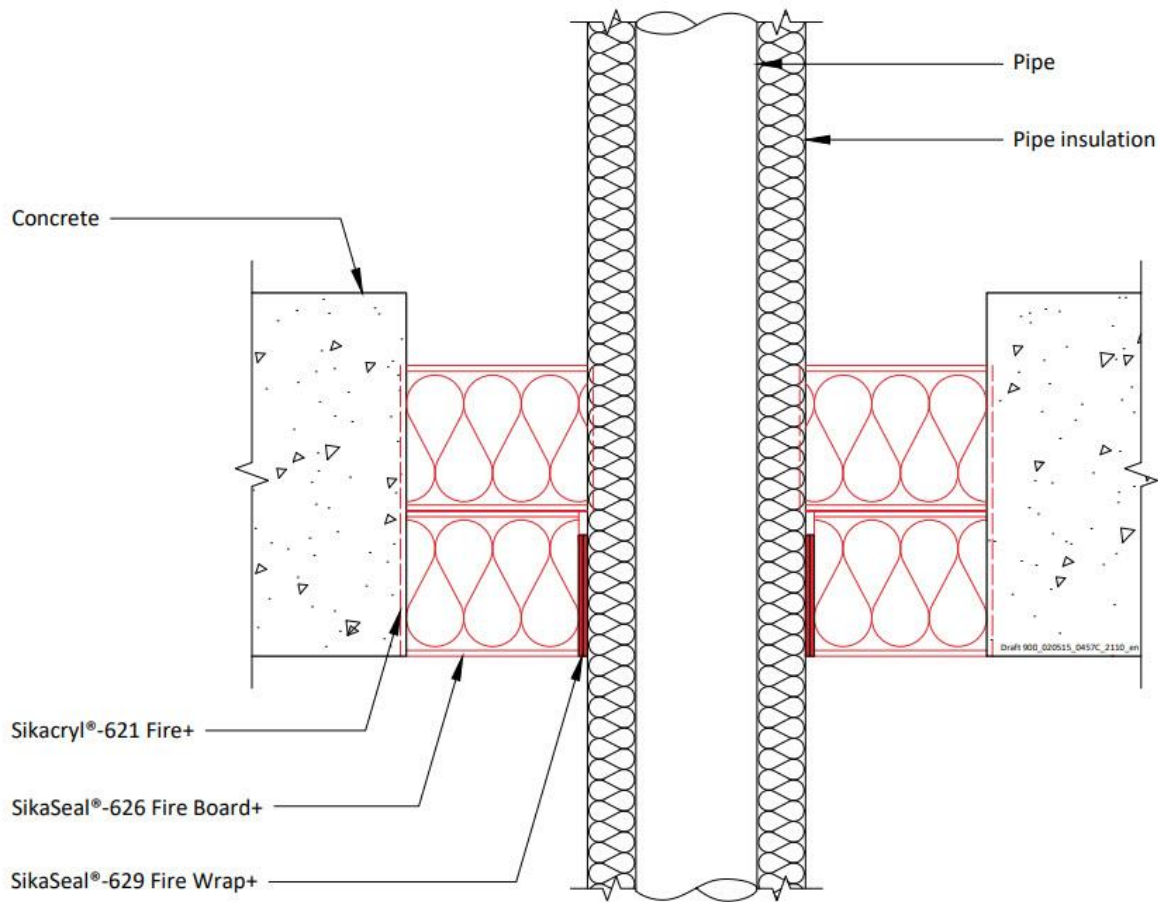
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#### A.5.4 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 2-S (back to back), in rigid floors

**Penetration Seal:** CS (Continuous Sustained) insulated metallic and composite pipes fitted at any position within the aperture, with two layers of 60 mm SikaSeal-626 Fire Board+ 1-S installed together to either side of the floor (or anywhere in between). SikaSeal-629 Fire Wrap+ are required to be fitted around combustible pipe insulation at the bottom of the seal. Maximum aperture size 2400 mm x 1200 mm

Construction details:



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### A.5.4.1

Services	Wrap	Insulation	Classification
Copper pipe			
12-54 mm diameter/1-1.2 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9-13 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	E240 C/C, EI 60 C/C
12-55 m diameter/1-1.2 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	E 180 C/C, EI 45 C/C
· Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD pipe)			
· 16 mm diameter/2.25 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	EI 120 C/C
· 20 mm diameter/2.5 mm wall			
· 26 mm diameter/3 mm wall			
· 32 mm diameter/3 mm wall			
· 40 mm diameter/3.5 mm wall			
· 50 mm diameter/4 mm wall			
· 63 mm diameter/4.5 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or foil faced Phenolic Foam insulation	E 60 C/C, EI 45 C/C
· 75 mm diameter/4.7 mm wall			
· 16 mm diameter/2.25 mm wall			
· 20 mm diameter/2.5 mm wall			
· 26 mm diameter/3 mm wall			
· 32 mm diameter/3 mm wall			
· 40 mm diameter/3.5 mm wall			
· 50 mm diameter/4 mm wall			
· 63 mm diameter/4.5 mm wall			
· 75 mm diameter/4.7 mm wall			

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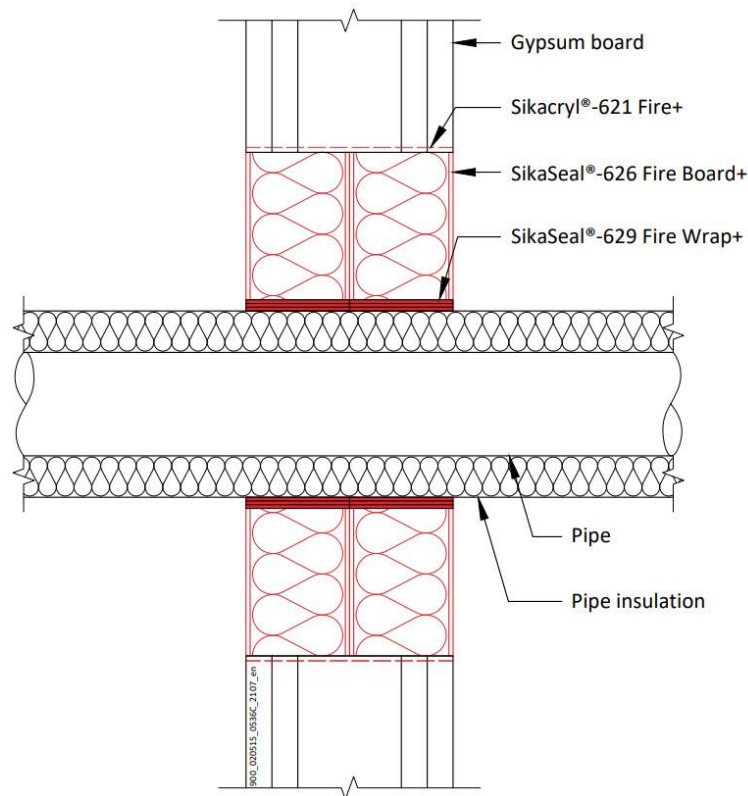
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## A.6 Flexible wall constructions according to 2. 1)

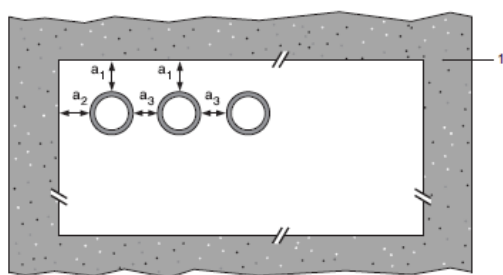
### A.6.1 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 1-S in flexible or rigid walls

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 50 mm SikaSeal-626 Fire Board+ 1-S to both sides of the wall. Minimum separation between penetration seals and seal edges of 30 mm. SikaSeal-629 Fire Wrap+ are required to be fitted around the pipe insulation.

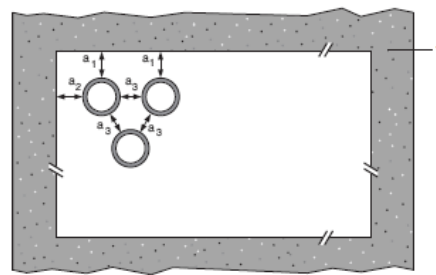
Construction details:



#### Configuration 1



#### Configuration 2



#### Key

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

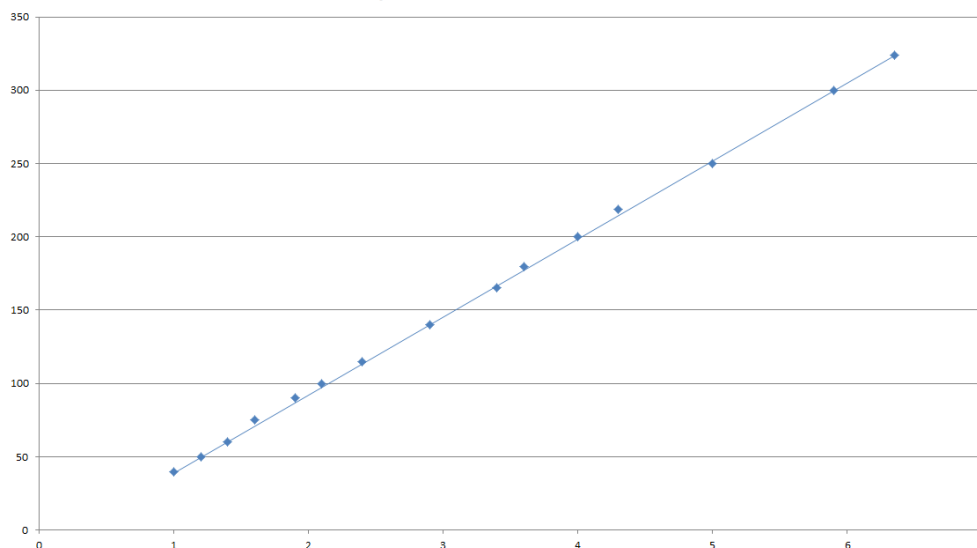
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**A.6.1.1**

Mild or stainless steel pipe	Insulation	SikaSeal-629 Fire Wrap+	Classification
40 mm diameter/1-14.2 mm wall*	32-50 mm thick Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	3 layers 50 x 1.8 mm	EI 90 C/U
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.6-14.2 mm wall*			
90 mm diameter/1.9-14.2 mm wall*			
100 mm diameter/2.1-14.2 mm wall*			
115 mm diameter/2.4-14.2 mm wall*			
140 mm diameter/2.9-14.2 mm wall*			
165 mm diameter/ 3.4-14.2 mm wall*			
180 mm diameter/ 3.6-14.2 mm wall*			
200 mm diameter/ 4.0-14.2 mm wall*			
219 mm diameter/ 4.3-14.2 mm wall*			
250 mm diameter/ 5.0-14.2 mm wall*			
300 mm diameter/ 5.9-14.2 mm wall*			
324 mm diameter/ 6.35-14.2 mm wall*			

Pipe Diameter vs wall thickness



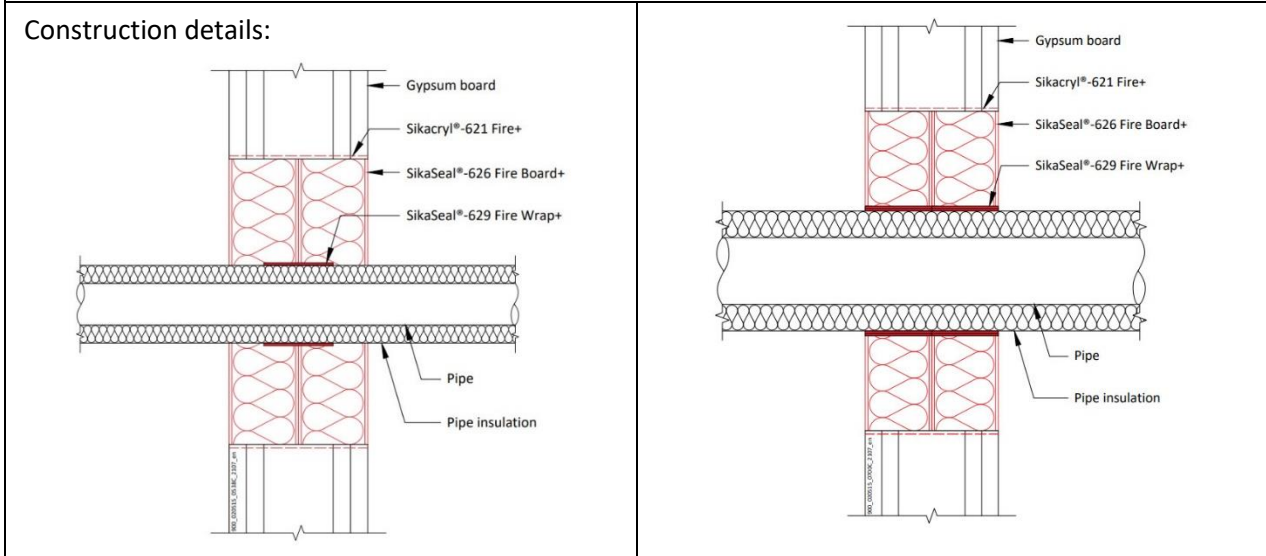
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**A.6.2 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 1-S, in flexible or rigid walls**

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes fitted at any position within the aperture, with 50 mm SikaSeal-626 Fire Board+ 1-S to both sides of the wall. SikaSeal-629 Fire Wrap+ are required to be fitted around the pipe insulation.



**A.6.2.1**

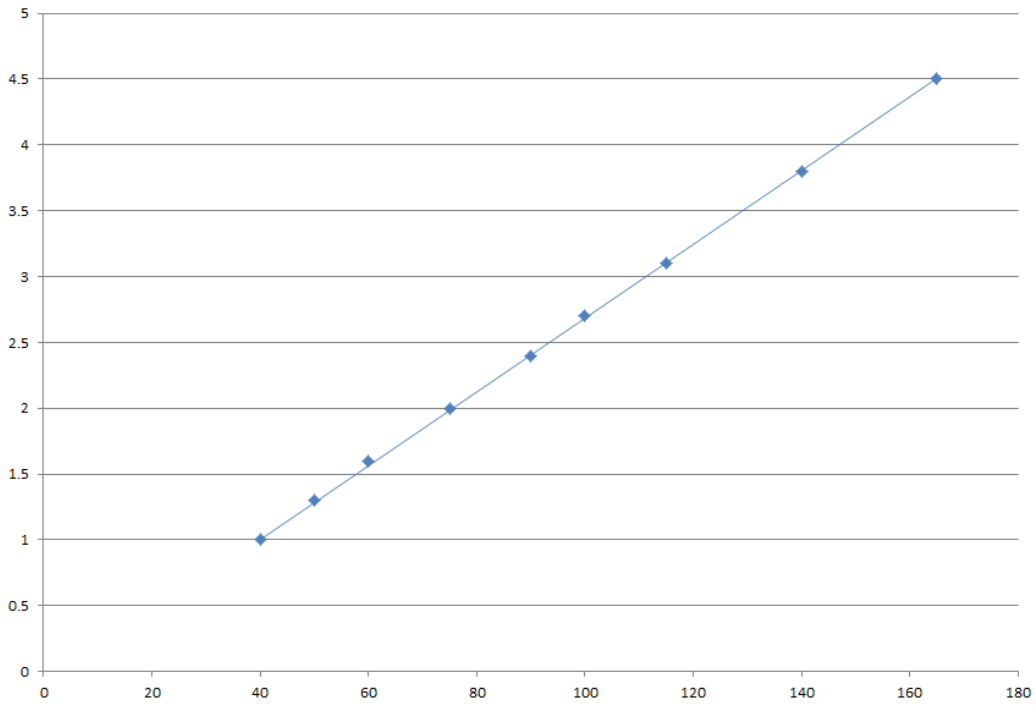
Services	Wrap	Insulation	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall	50 x 1.8 mm SikaSeal-629 Fire Wrap+ fitted centrally	13 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 U/C, EI 120 U/U, EI 120 C/U, EI 120 C/C
40 mm diameter/1-14.2 mm wall*	2 off 50 x 3.6 mm SikaSeal-629 Fire Wrap+, one fitted flush to each face of seal	13 - 32mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 U/C, E 120 U/U, E 120 C/U, E 120 C/C, EI 60 U/C, EI 60 U/U, EI 60 C/U, EI 60 C/C
50 mm diameter/1.3-14.2 mm wall*			
60 mm diameter/1.6-14.2 mm wall*			
75 mm diameter/2-14.2 mm wall*			
90 mm diameter/2.4-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3.1-14.2 mm wall*			
140 mm diameter/3.8-14.2 mm wall*			
165 mm diameter/ 4.5-14.2 mm wall*			

\* Typical pipe diameters shown, see below graph for intermediate sizes

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**Pipe diameter vs Wall thickness**



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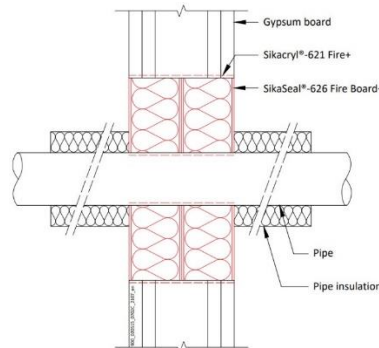




### A.6.3 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 1-S, in flexible or rigid walls

**Penetration Seal:** LS (Local Sustained) or CS (Continuous Sustained) insulated metallic and composite pipes (single) fitted at any position within the aperture, with 50 mm SikaSeal-626 Fire Board+ 1-S to both sides of the wall. SikaSeal-629 Fire Wrap+ are required to be fitted around the pipe to both sides of the seal.

Construction details:



#### A.6.3.1

Services	Wrap	Insulation	Classification
Copper pipe			
12 mm diameter/1 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 C/C
12-54 mm diameter/1-1.2 mm wall		9-13 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 C/C, EI 90 C/C
12-54 mm diameter/1-1.2 mm wall		13-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	E 120 C/C, EI 60 C/C
Geberit Mepla MLC (PE-Xb/Aluminium/PE-HD pipe)*			
16 mm diameter/2.25 mm wall	50 x 3.6 mm SikaSeal-629 Fire Wrap+ fitted to both sides of the seal	9-25 mm Elastomeric insulation minimum class B-s3,d0 or PE Foam insulation	EI 120 C/C
20 mm diameter/2.5 mm wall			
26 mm diameter/3 mm wall			
32 mm diameter/3 mm wall			
40 mm diameter/3.5 mm wall			
50 mm diameter/4 mm wall			
63 mm diameter/4.5 mm wall			
75 mm diameter/4.7 mm wall			

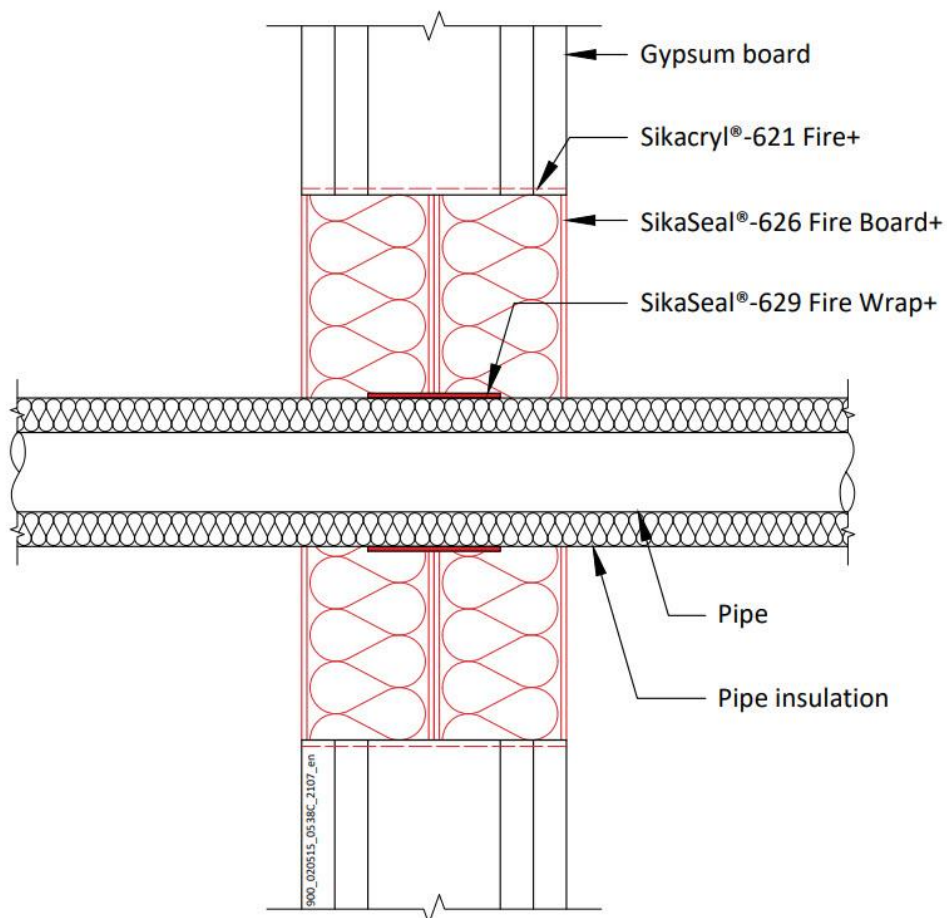
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#### A.6.4 SikaSeal-629 Fire Wrap+ penetration seal for insulated metal pipes, in 2x SikaSeal-626 Fire Board+ 1-S, in flexible or rigid walls

**P Penetration Seal:** Combustible pipes (single) fitted central within the aperture, with SikaSeal-626 Fire Board+ 1-S to both sides of the wall. SikaSeal-629 Fire Wrap+ are required to be fitted around the pipe.

Construction details:



##### A.6.4.1

Services	Pipe Wrap	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1  315 mm Ø/9.2 mm wall	SikaSeal-629 Fire Wrap+ 75 x 18 mm fitted centrally around the pipe	EI 45 C/C

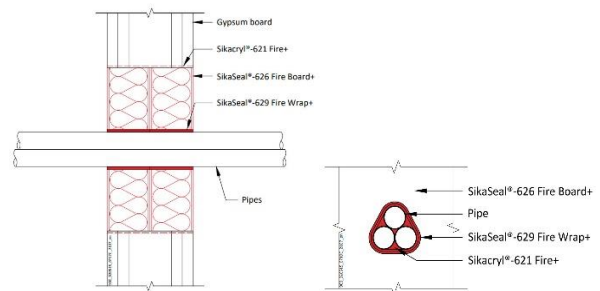
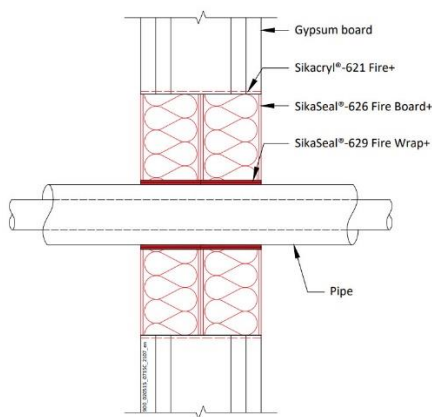
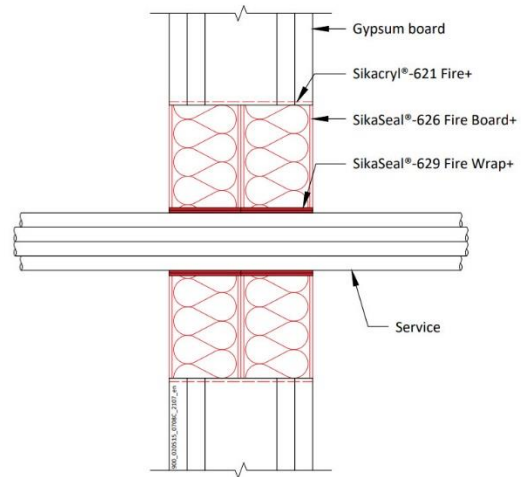
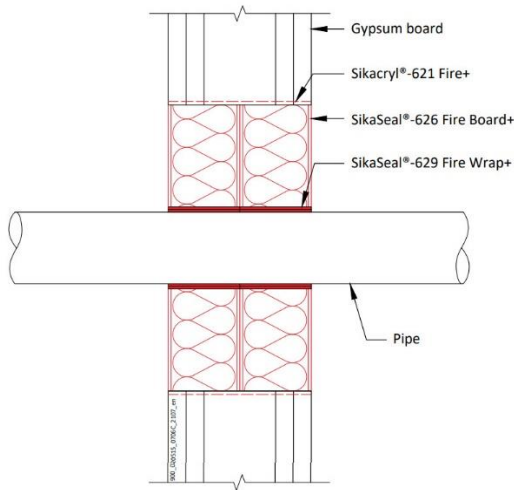
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**A.6.5 SikaSeal-629 Fire Wrap+ penetration seal for plastic pipes, in 2x SikaSeal-626 Fire Board+ 1-S, in flexible or rigid walls**

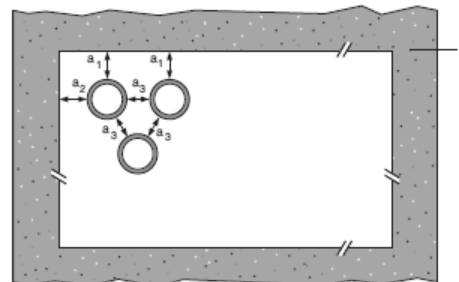
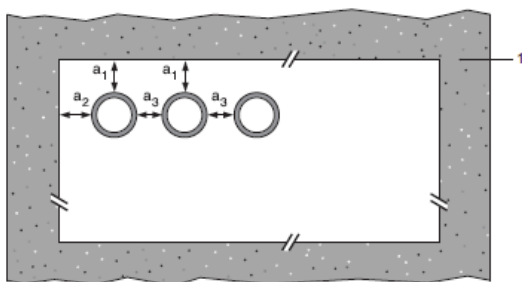
**Penetration Seal:** Combustible pipes sealed with SikaSeal-629 Fire Wrap+, to both sides of the wall. Minimum separation between penetration seals and seal edges of 30 mm. (Configuration 1 & 2).

Construction details:



**Configuration 1**

**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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### A.6.5.1

Services	Wraps (both sides)	Permitted configuration for seal separation	Classification
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1 and PVC-C according to EN 1566-1			
Diameter up to 40 mm, wall thickness 1.9 – 3.0 mm	50 x 1.8 mm (1 layer)	1 & 2 between	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 2.7 – 6.6 mm	50 x 3.6 mm (2 x 1.8 layer)	PVC-U/PVC-C,	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 3.7 – 7.4 mm	50 x 5.4 mm (3 x 1.8 layer)	PE/ABS/SAN +PVC and PP	
Diameter up to 160 mm, wall thickness 9.5 mm *	50 x 7.2 mm (4 x 1.8 layer)	pipes in any combination	
Diameter up to 315 mm, wall thickness 7.7-12.1 mm*	50 x 18 mm (10 x 1.8 layers)	n/a	EI 90 C/C
Diameter up to 400 mm, wall thickness 9.8-15.3 mm*	50 x 28.8 mm (16 x 1.8 layers)	n/a	EI 90 C/C
Diameter up to 110 mm, wall thickness 2.7–6.6 mm, fully or partially filled conduits with cables up to 14 mm diameter	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	E 120 U/C, EI 90 U/C
PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1			
Diameter up to 40 mm, wall thickness 2.4 – 3.7 mm	50 x 1.8 mm (1 layer)	1 & 2 between	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 4.2 – 10 mm	50 x 3.6 mm (2 x 1.8 layer)	PVC-U/PVC-C,	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 4.8 – 12 mm	50 x 5.4 mm (3 x 1.8 layer)	PE/ABS/SAN +PVC and PP	
Diameter up to 160 mm, wall thickness 14.6 mm	50 x 7.2 mm (4 x 1.8 layer)	pipes in any combination	
Diameter up to 110 mm, wall thickness 4.2–10 mm, fully or partially filled conduits with cables up to 14 mm diameter	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	E 120 U/C, EI 90 U/C
PP pipe according to EN 1852-1: 2009			
Diameter up to 40 mm, wall thickness 1.8 – 5.5 mm	50 x 1.8 mm (1 layer)	1 & 2 between	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 2.7 – 15.1 mm	50 x 3.6 mm (2 x 1.8 layer)	PVC-U/PVC-C,	EI 90 U/U, EI 90 C/U, EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 3.1 – 17.1 mm	50 x 5.4 mm (3 x 1.8 layer)	PE/ABS/SAN +PVC and PP	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter up to 160 mm, wall thickness 21.9 mm	50 x 7.2 mm (4 x 1.8 layer)	pipes in any combination	
Diameter up to 110 mm, wall thickness 2.7–15.1 mm, fully or partially filled conduits with cables up to 14 mm diameter	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	E 120 U/C, EI 90 U/C
Uponor Wirsbo PEX pipe in pipe system according to ISO 15875			
Diameter up to 54 mm/4.0 mm wall thickness (outer pipe), 28 mm diameter/0.4 mm wall thickness (inner pipe)	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	EI 120 C/C

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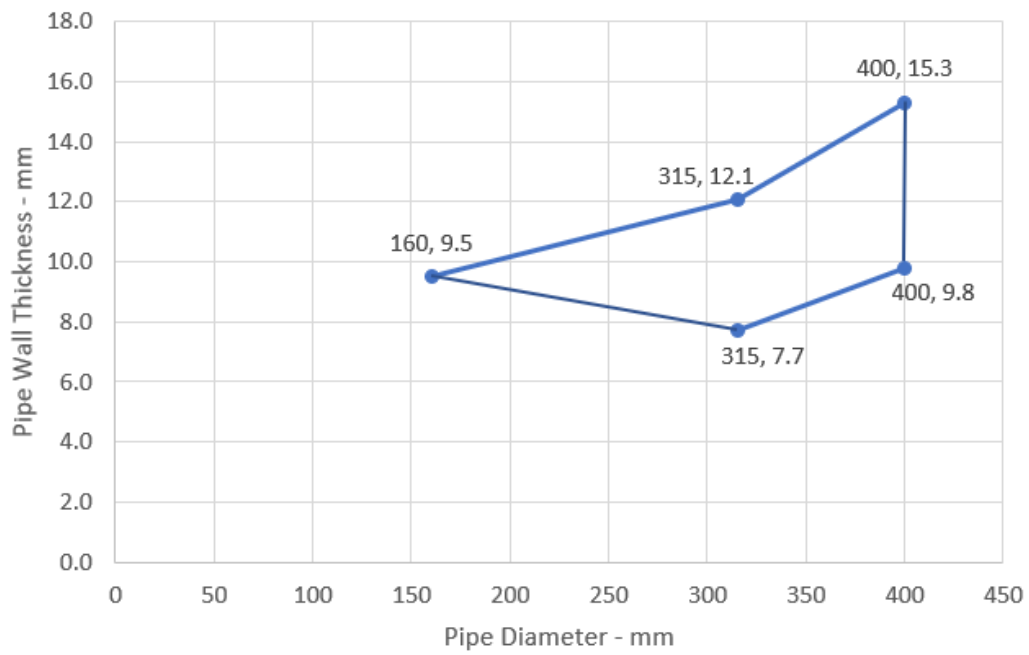
<b>Uponor Wirsbo PEX double pipe in pipe system</b>			
Diameter up to 25 mm pipes, wall thickness 0.6 mm, in bundles up to 50 mm	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 90 C/C</b>
<b>BluePower Multilayer pipe according to EN 1451-1</b>			
32-50 mm diameter/1.8 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 90 U/U</b>
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 90 C/U</b>
<b>Rehau Raupiano Plus PP-DD according to DIN 4102</b>			
40-50 mm diameter/1.8-2.7 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/U</b>
75-110 mm diameter/2.7 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
125 mm diameter/3.9 mm wall thickness	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
160 mm diameter/3.9 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
<b>Polo-Kal NG Poloplast PP-MV according to DIN 4102</b>			
32-50 mm diameter/2.0-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/U</b>
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
125 mm diameter/3.9 mm wall thickness	50 x 7.2 mm (4 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
160 mm diameter/4.9 mm wall thickness	50 x 10.8 mm (6 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>
<b>Aquatherm Green SDR9 MF PP-RP according to ISO 21003</b>			
32 mm diameter/3.0 mm wall thickness	50 x 1.8 mm (1 x 1.8 layer)	1 & 2	<b>E 120 C/C, EI 90 C/C</b>
40-50 mm diameter/5.6-12.3 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>E 120 C/C, EI 90 C/C</b>
63-110 mm diameter/12.3 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>E 120 C/C, EI 90 C/C</b>
<b>Wavin SiTech + PP-M B according to EN 13501-1</b>			
32-50 mm diameter/1.8-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>E 120 U/U, EI 90 U/U</b>
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>E 120 U/C, EI 60 U/C</b>
<b>Gilbert Silent PP according to DIN 4102</b>			
32-50 mm diameter/1.8-3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/U</b>
75-110 mm diameter/3.4 mm wall thickness*	50 x 3.6 mm (2 x 1.8 layers)	1 & 2	<b>EI 120 U/C</b>

\*See below graph for interpolation pipe sizes

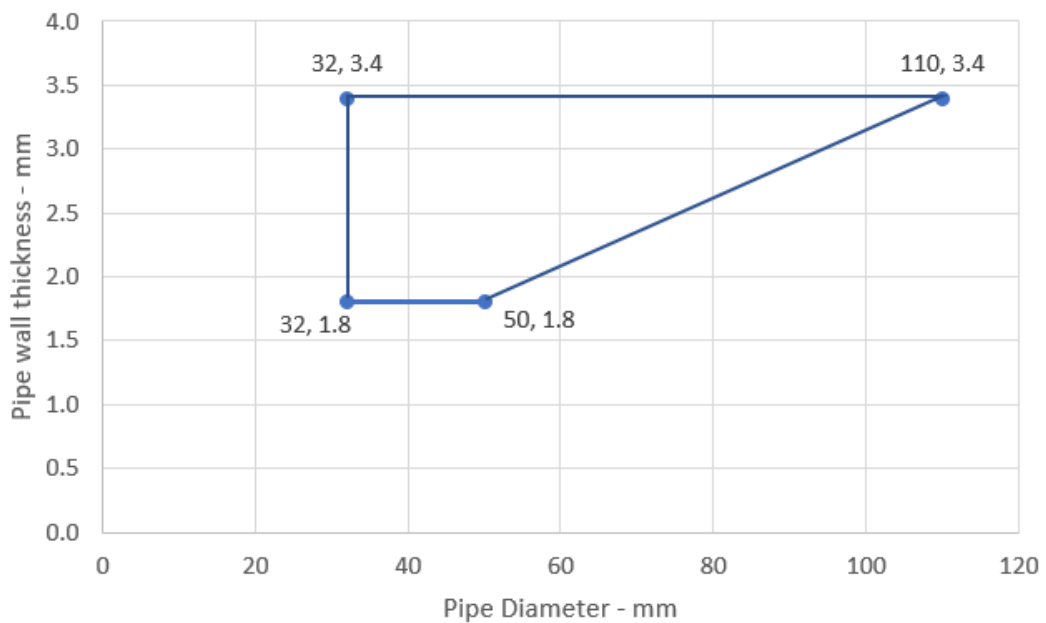
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### PVC-U Pipes - E 90 C/C, EI 60 C/C



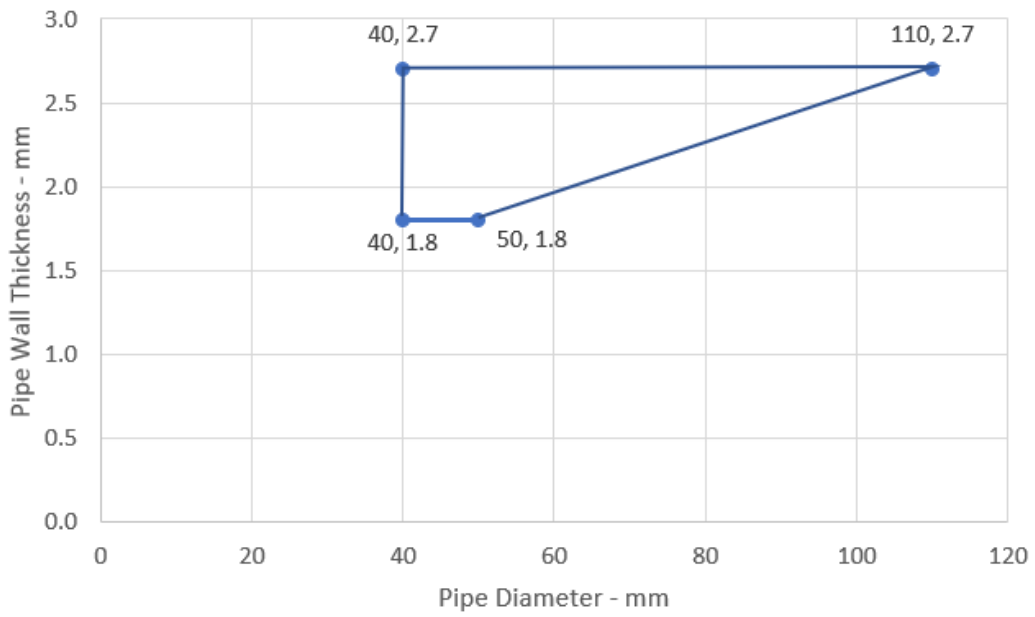
### BluePower - EI 90 C/U



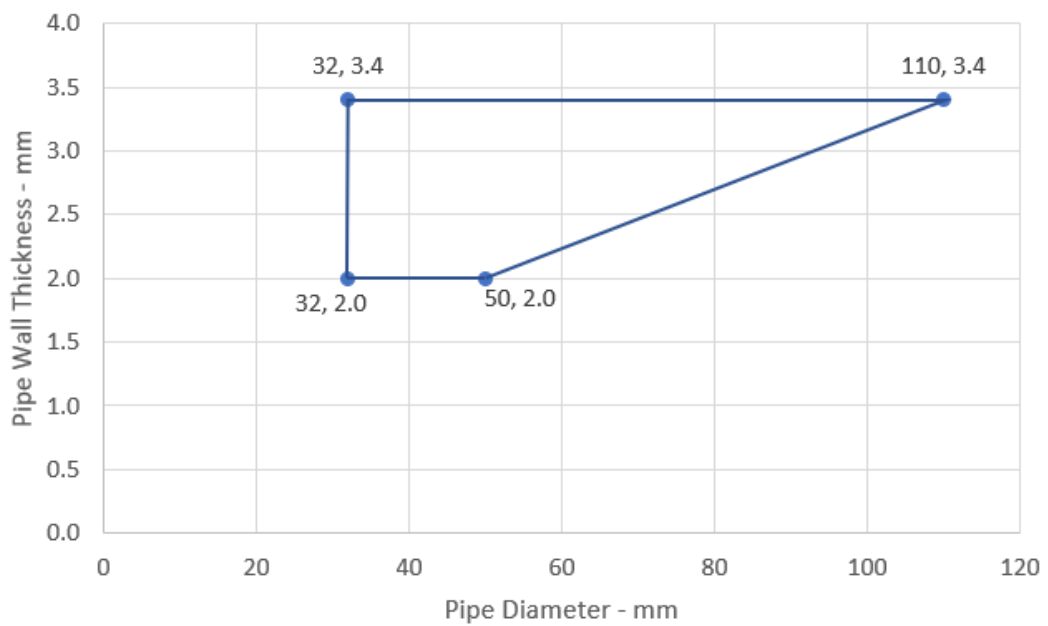
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### Rehau Raupiano Plus -EI 120 U/C



### Polo-Kal NG - EI 120 U/C

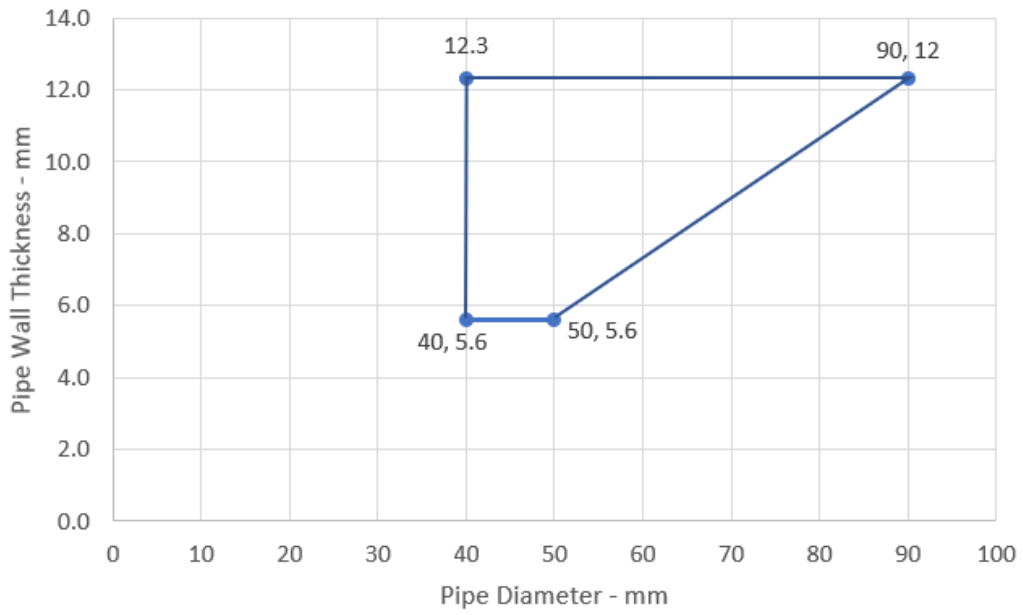


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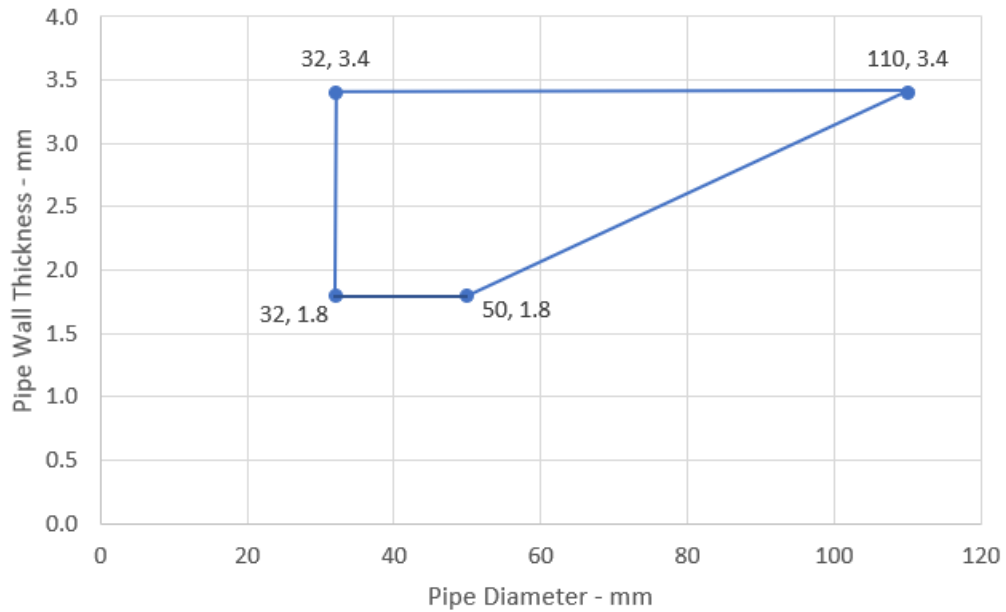
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### Aquatherm Green - E 120 C/C, EI 90 C/C



### Wavin SiTech Pipes - E120 C/C, EI 60 C/C

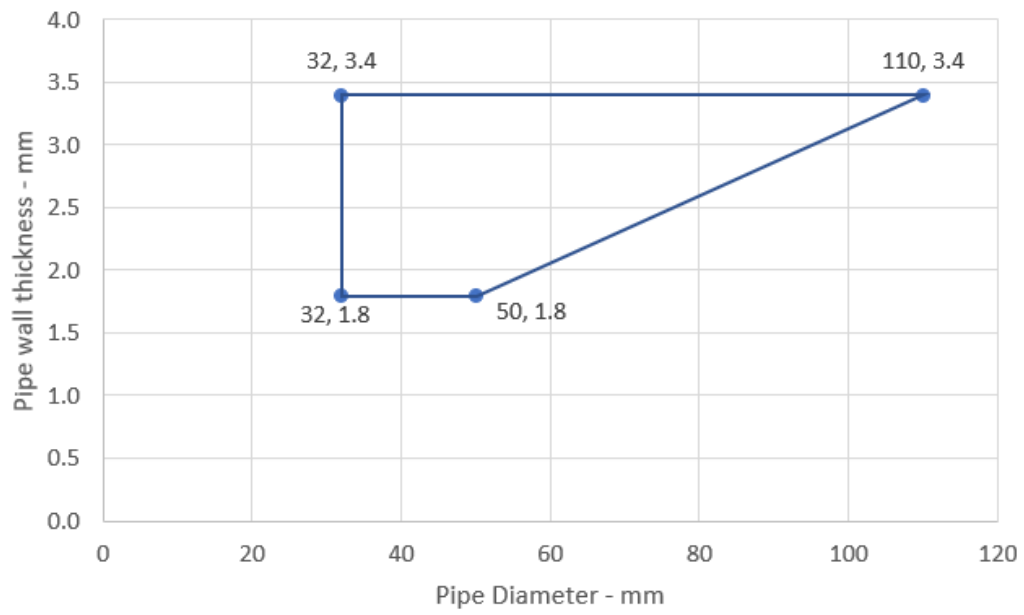


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### Gilbert Silent PP - EI 120 U/C



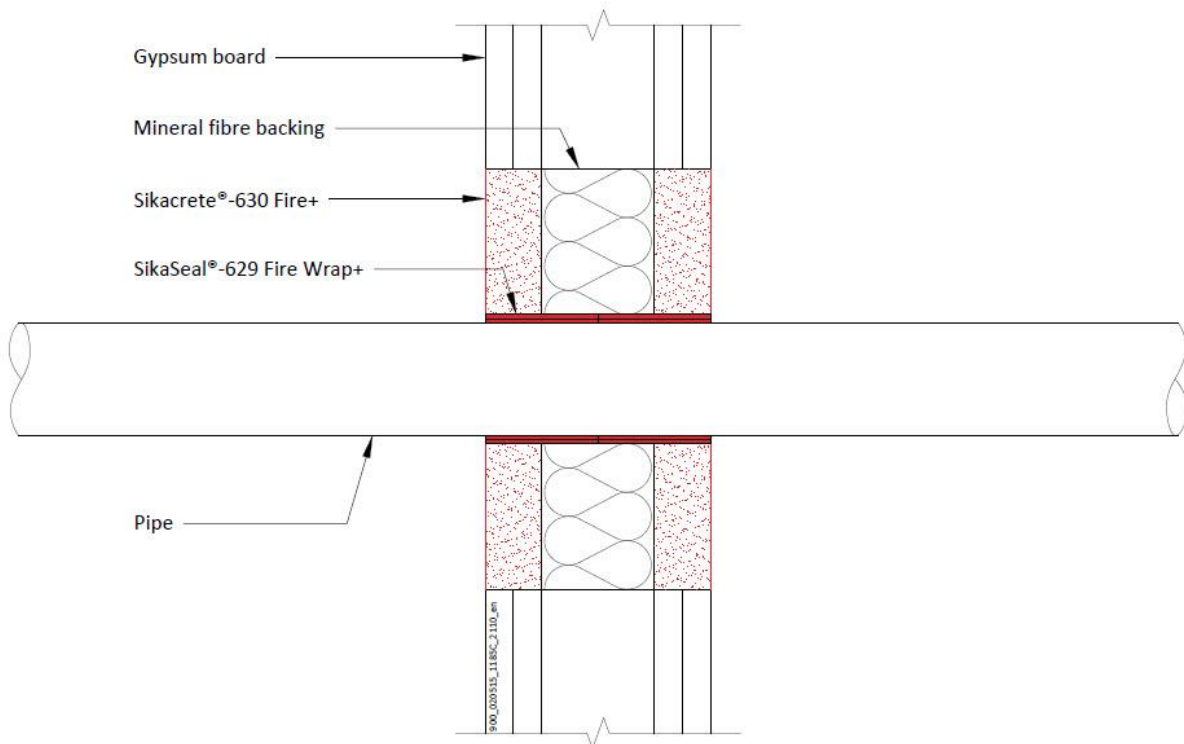
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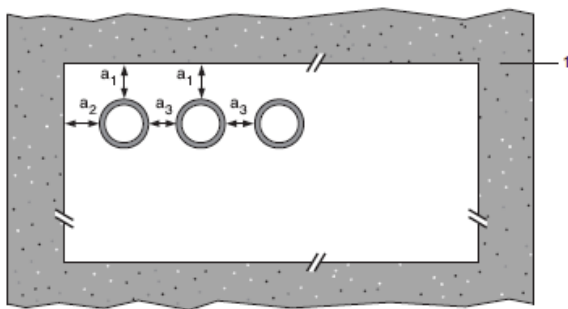
**A.6.6 Penetration seal in Sikacrete-630 Fire+ seals, in flexible\* and rigid walls minimum 100 mm thick**

**Penetration Seal:** Combustible pipes sealed with SikaSeal-629 Fire Wrap+, installed into Sikacrete-630 Fire+ seals. Minimum separation between penetration seals and seal edges of 30 mm.

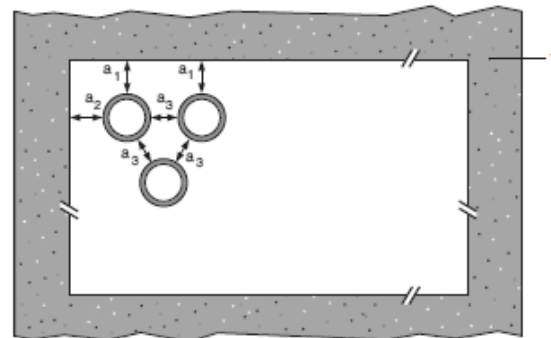
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

\* Partition wall must incorporate a full fill core insulation of Stonewool (35kg/m3 density)

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### A.6.6.1

Services	Wraps (both sides)	Permitted configuration for seal separation	Classification
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1 and PVC-C according to EN 1566-1			
Diameter up to 40 mm, wall thickness 3.0 – 4.3 mm	50 x 1.8 mm (1 layer)	1 & 2 between PVC-U/PVC-C, PE/ABS/SAN+PVC and PP pipes in any combination	E 120 U/C, E 120 C/U, EI 60 U/C, EI 60 C/C
Diameter up to 110 mm, wall thickness 2.7 - 6.6 mm	50 x 3.6 mm (2 x 1.8 layer)		E 120 U/C, E 120 C/C, EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 3.7 – 7.4 mm	50 x 5.4 mm (3 x 1.8 layer)		EI 120 U/C, EI 120 C/C
Diameter up to 160 mm, wall thickness 3.2 - 9.5 mm	50 x 7.2 mm (4 x 1.8 layer)		EI 60 U/C, EI 60 C/C
PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1			
Diameter up to 40 mm, wall thickness 3.2 – 3.7 mm	50 x 1.8 mm (1 layer)	1 & 2 between PVC-U/PVC-C, PE/ABS/SAN+PVC and PP pipes in any combination	EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 4.2 - 10 mm	50 x 3.6 mm (2 x 1.8 layer)		EI 60 U/C, EI 60 C/C
Diameter up to 125 mm, wall thickness 12 mm	50 x 5.4 mm (3 x 1.8 layer)		EI 120 U/C, EI 120 C/C
Diameter up to 160 mm, wall thickness 4.9 – 12.0 mm	50 x 7.2 mm (4 x 1.8 layer)		E 120 U/C, E 120 C/C
Diameter up to 160 mm, wall thickness 12.0 mm			EI 90 U/C, EI 90 C/C
PP pipe according to EN 1852-1: 2009			
Diameter up to 40 mm, wall thickness 4.0 – 5.5 mm	50 x 1.8 mm (1 layer)	1 & 2 between PVC-U/PVC-C, PE/ABS/SAN+PVC and PP pipes in any combination	EI 120 U/C, EI 120 C/C
Diameter up to 110 mm, wall thickness 6.6 mm	50 x 3.6 mm (2 x 1.8 layer)		E 120 U/C, E 120 C/C, EI 90 U/C, EI 90 C/C
Diameter up to 125 mm, wall thickness 17.1 mm	50 x 5.4 mm (3 x 1.8 layer)		E 120 U/C, E 120 C/C, EI 90 U/C, EI 90 C/C
Diameter up to 160 mm, wall thickness 4.0 - 21.9 mm	50 x 7.2 mm (4 x 1.8 layer)		E 120 U/C, E 120 C/C
Diameter up to 160 mm, wall thickness 21.9 mm			EI 60 U/C, EI 60 C/C


EAD 350454-00-1104:2017
Notified Body 2531
Fire Stopping and Sealing Product: Penetration Seals

<http://dop.sika.com>

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## CE MARK TO BE PLACED ON THE LABEL

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Sika Services AG, Zurich, Switzerland
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For details see accompanying documents
EAD 350454-00-1104:2017
Notified Body 2531
Fire Stopping and Sealing Product: Penetration Seals

<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

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sikas recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the products suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika Services AG  
Tüffenwies 16-22  
8064 Zürich  
Switzerland  
[www.sika.com](http://www.sika.com)

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