

Sikacryl®-621 Fire+

DECLARATION OF PERFORMANCE No. 74951760

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT- TYPE:	74951760
2	INTENDED USE/S	Fire Stopping and Sealing Product: Penetration Seals
3	MANUFACTURER:	Sika Services AG Tüffenwies 16 8064 Zürich
4	SYSTEM/S OF AVCP:	1
5b	EUROPEAN ASSESSMENT DOCUMENT:	EAD 350454-00-1104, September 2017 Fire Stopping and Sealing Product: Penetration Seals
	European Technical Assessment:	ETA 23/0964 of 30/04/2024
	Technical Assessment Body:	UL International (Netherlands) B.V.
	Notified body/ies:	2531

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

6 DECLARED PERFORMANCE/S

Essential Characteristics	Performance	AVCP	Harmonised Technical Specification
Reaction to fire	Class B-s1, d0	System 1	EAD 350454-00-1104: 2017
Resistance to fire	Annex A	System 1	
Air permeability	Annex B	System 1	
Water permeability	NPD	System 1	
Content, emission and/or release of dangerous substances	Use categories: IA1, S/W2 Declaration of manufacturer	System 1	
Mechanical resistance and stability	NPD	System 1	
Resistance to impact/movement	NPD	System 1	
Adhesion	NPD	System 1	
Durability	Z ₂	System 1	
Airborne sound insulation	Rw(C;Ctr)= 62 (-1;-5) dB*	System 1	
Thermal properties	NPD	System 1	
Water vapour permeability	NPD	System 1	

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

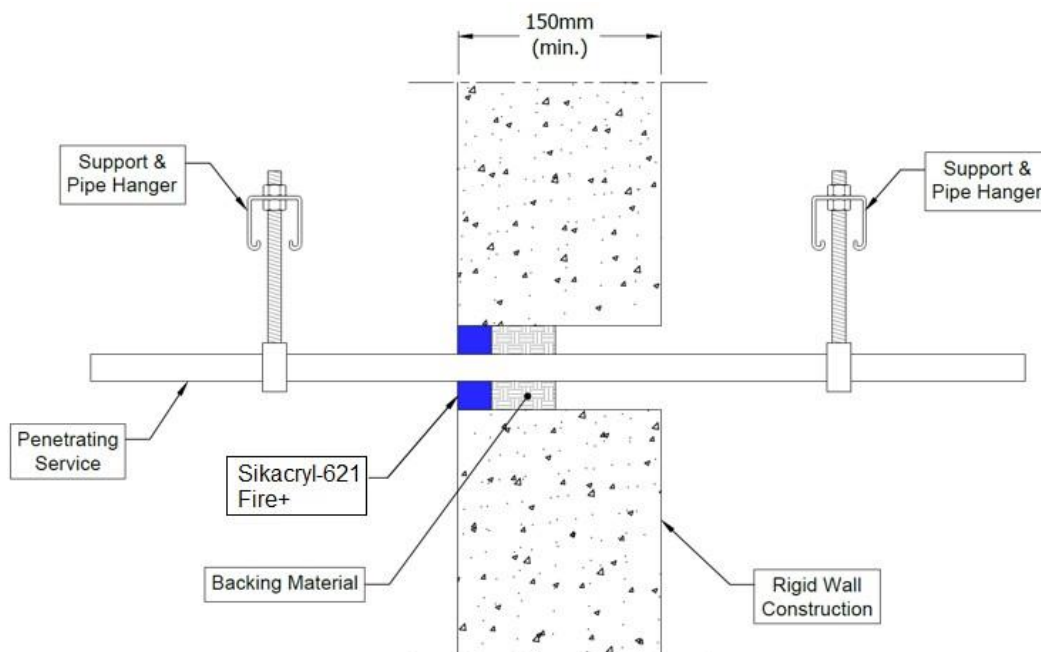
ANNEX A – Resistance to Fire Classification – Sikacryl-621 Fire+

A.1 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

A.1.1 Single side penetration seal with cables

Penetration Seal: Cables (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to either side of the wall (or at any position in between), backed with AES Fibre $\geq 128\text{kg/m}^3$. Minimum separation between cables and the edge of the seal of 7 mm.

Construction details:



A.1.1.1

Services	Sealant depth	Backing	Maximum seal size	Classification
Single electrical cables up to 21 mm $\varnothing$	25 mm	48 mm deep AES Fibre $\geq 128\text{kg/m}^3$	87 mm $\varnothing$	E 240, EI 90
Blank seals	25 mm	48 mm AES Fibre $\geq 128\text{kg/m}^3$ insulation	300 x 300 mm	E 240, EI 60
Electric cables up to 21 mm diameter, single.			35 x 35 mm / 36 mm $\varnothing$	E 240, EI 120
Blank seals				
Electric cables up to 21 mm diameter, single.				

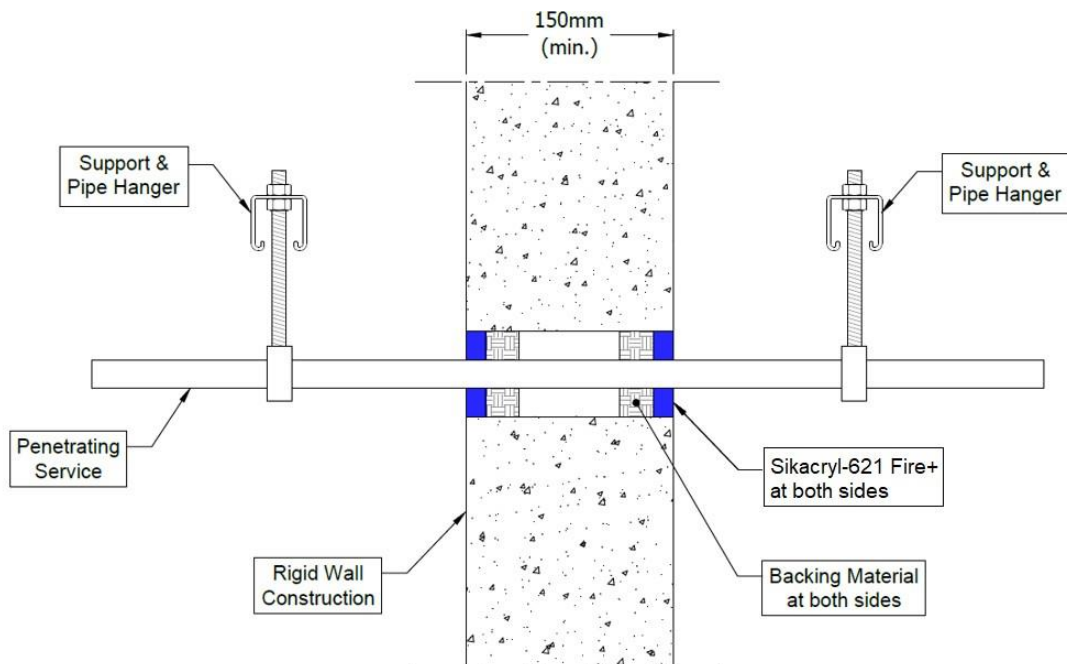
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.2 Double side penetration seal with cables

Penetration Seal: Cables fitted with Sikacryl-621 Fire+ to both sides of the wall, backed with stone wool or mineral fibre insulation. Maximum seal size of 300 x 300 mm and minimum separation between cables and the edge of the seal of 10 mm.

Construction details:



A.1.2.1

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Blank seals	15 mm	25 mm Stone wool 35 kg/m³	None	EI 240
Electric cables up to 21 mm diameter, single or in a bundle.				E 240, EI 120
Electric cables 22-80 mm diameter, single or in a bundle.				E 120, EI 60
Blank seals	25 mm	48 mm AES Fibre ≥ 128kg/m³		EI 240
Electric cables up to 80 mm diameter, single or in a bundle.				E 240, EI 60
Cables up to 21 mm diameter, single or in a bundle up to 100 mm diameter				EI 240

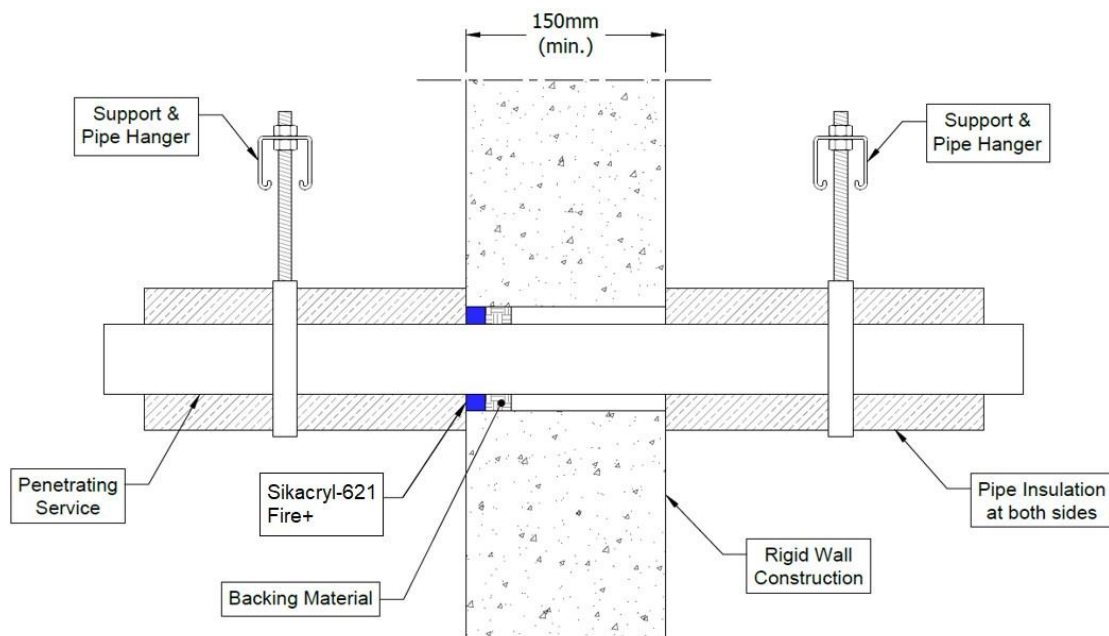
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.3 Single side penetration seal with metallic (and composite) pipes

Penetration Seal: LI (Local Interrupted) of minimum length stated below or CI (Continuous Interrupted) insulated metallic and composite pipes (single) fitted at any position within the aperture, with 15 mm deep Sikacryl-621 Fire+ to either side of the wall (or at any position between), backed with 20 mm deep minimum 40 kg/m³ stone wool insulation*.

Construction details:



A.1.3.1

Services	Seal width around pipe	Insulation (minimum)	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	8-9 mm	1000 mm length 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 180 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall	8 mm		EI 240 C/U
Alupex composite pipe 75 mm diameter/7.5 mm wall	30 mm	25 mm AES Fibre ≥ 128kg/m ³ insulation, 600 mm long (min.)	EI 120 C/U

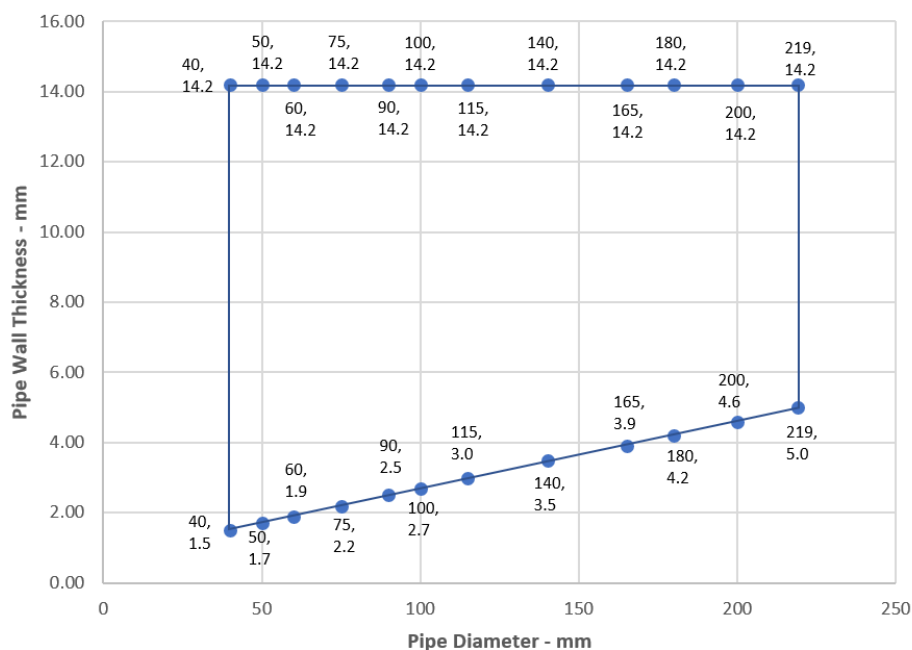
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Seal width around pipe	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	6-18 mm	1000 mm length of 20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1.5-14.2 mm wall*		1000 mm length of 30 mm Stone wool insulation 80 kg/m ³	E 180 C/U, EI 90 C/U
50 mm diameter/1.7-14.2 mm wall*			
60 mm diameter/1.9-14.2 mm wall*			
75 mm diameter/2.2-14.2 mm wall*			
90 mm diameter/2.5-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3-14.2 mm wall*			
140 mm diameter/3.5-14.2 mm wall*			
165 mm diameter/ 3.9-14.2 mm wall*			
180 mm diameter/ 4.2-14.2 mm wall*			
200 mm diameter/ 4.6-14.2 mm wall*			
219 mm diameter/ 5.0-14.2 mm wall*			

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

Steel Pipes with Mineral Wool Insulation - C/U



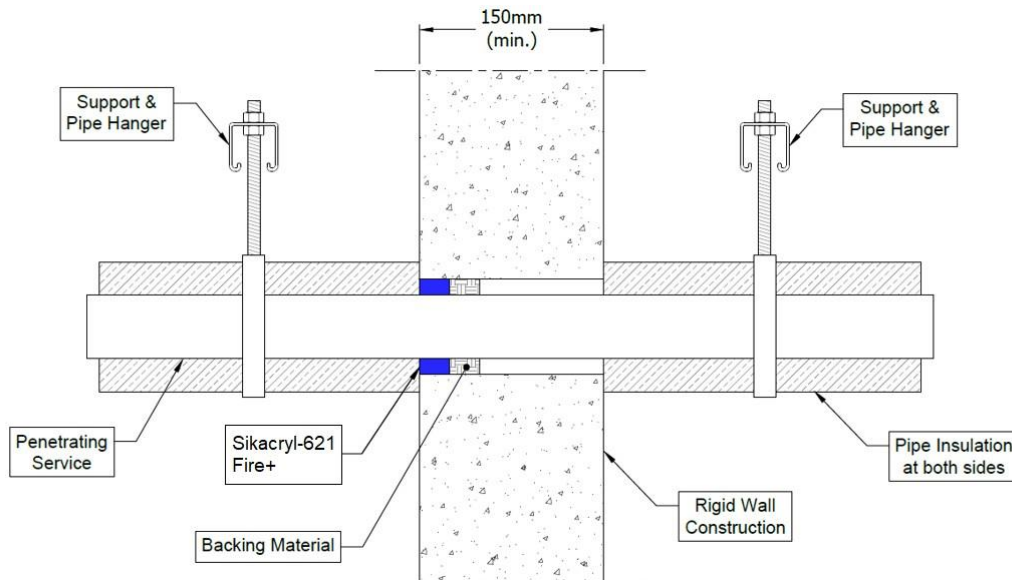
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.4 Single side penetration seal with metallic (and composite) pipes

Penetration Seal: LI (Local Interrupted) of minimum length stated below or CI (Continuous Interrupted) insulated metallic and composite pipes (single) fitted at any position within the aperture, with 25 mm deep Sikacryl-621 Fire+ to either side of the wall (or at any position between), backed with 25 mm deep minimum 40 kg/m³ stone wool insulation*.

Construction details:



A.1.4.1

Services	Maximum Seal size	Insulation (minimum)	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	300 x 300 mm	1000 mm length 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 60 C/U
Alupex composite pipe 75 mm diameter/7.5 mm wall		25 mm AES Fibre ≥ 128kg/m ³ insulation, 600 mm long (min.)	

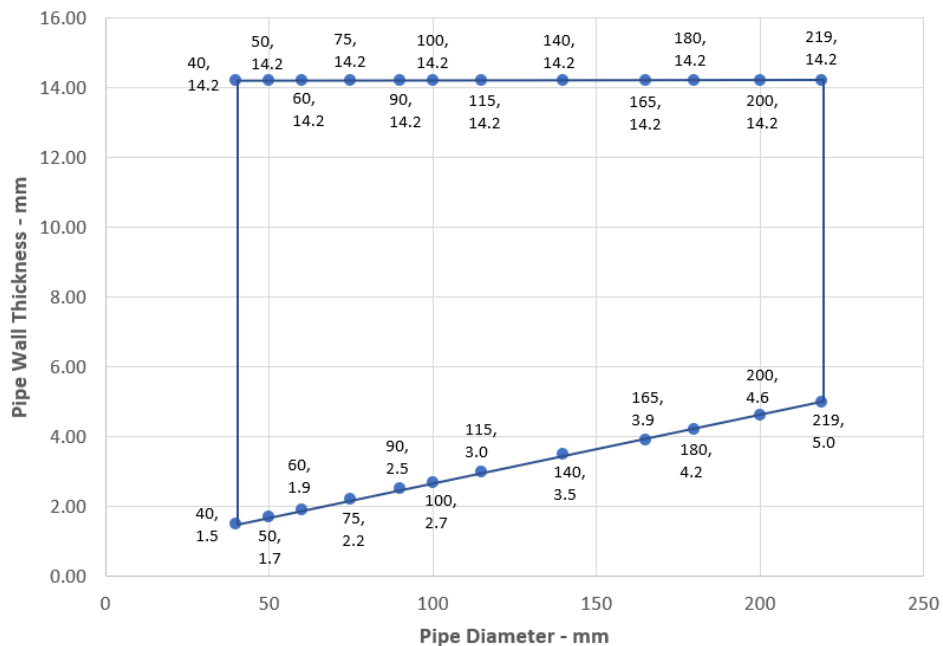
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	300 x 300 mm	1000 mm length of 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 60 C/U
40 mm diameter/1.5-14.2 mm wall*		1000 mm length of 30 mm Stone wool insulation 80 kg/m ³	
50 mm diameter/1.7-14.2 mm wall*			
60 mm diameter/1.9-14.2 mm wall*			
75 mm diameter/2.2-14.2 mm wall*			
90 mm diameter/2.5-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3-14.2 mm wall*			
140 mm diameter/3.5-14.2 mm wall*			
165 mm diameter/ 3.9-14.2 mm wall*			
180 mm diameter/ 4.2-14.2 mm wall*			
200 mm diameter/ 4.6-14.2 mm wall*			
219 mm diameter/ 5.0-14.2 mm wall*			

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

Steel Pipes with Mineral Wool Insulation - C/U



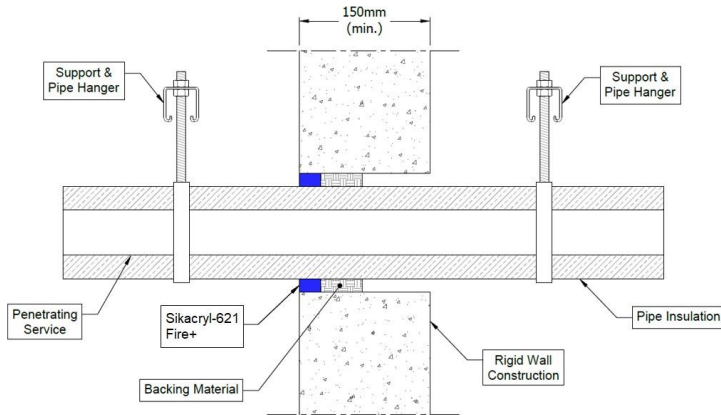
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.5 Single side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic (single), with 25 mm deep Sikacryl-621 Fire+ to either side of the wall (or at any position between), backed with 48 mm deep AES Fibre $\geq 128\text{kg/m}^3$ insulation. Minimum annular space 10 mm and minimum separation between penetrations seals of 30 mm. Maximum seal size 300 x 300 mm or 504 mm $\varnothing$.

Construction details:



A.1.5.1 Single side penetration seal with pipes

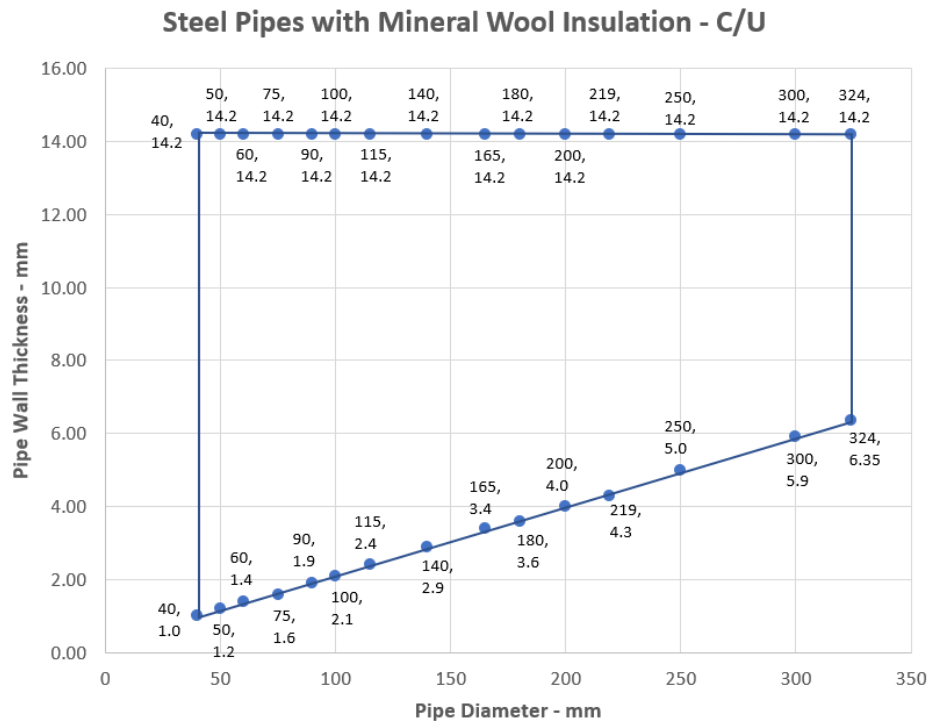
Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m^3	EI 240 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m^3	EI 180 C/U
50 mm diameter/1.2-14.2 mm wall*		
60 mm diameter/1.4-14.2 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*		

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

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Declaration of Performance

Sikacryl®-621 Fire+

74951760

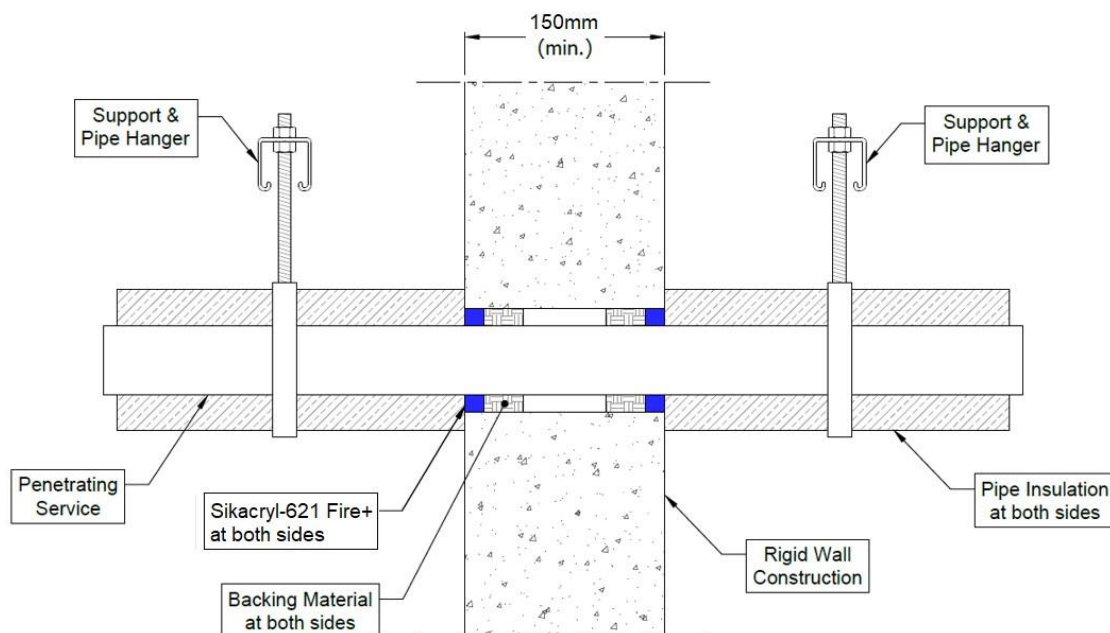
2025.01. , ver. 1

1549

A.1.6 Double side penetration seal with metallic pipes

Penetration Seal: 1000 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm deep Sikacryl-621 Fire+ to both sides of the wall, backed with 20 or 30 mm deep minimum 40 kg/m³ stone wool insulation.

Construction details:



A.1.6.1

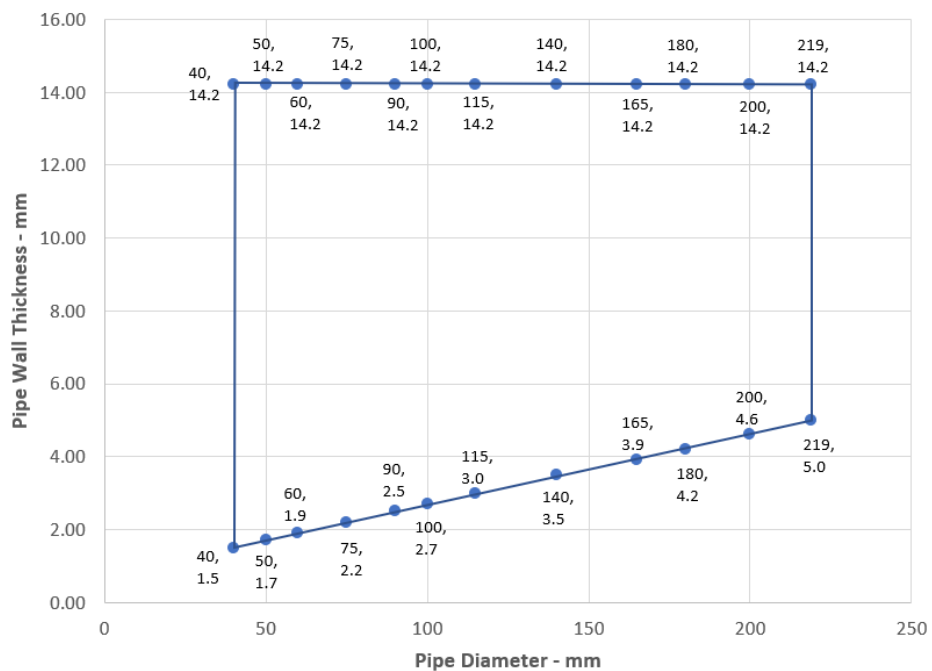
Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	300 x 300 mm	20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1.5-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m ³	E 240, EI 120 C/U
50 mm diameter/1.7-14.2 mm wall*			
60 mm diameter/1.9-14.2 mm wall*			
75 mm diameter/2.2-14.2 mm wall*			
90 mm diameter/2.5-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3-14.2 mm wall*			
140 mm diameter/3.5-14.2 mm wall*			
165 mm diameter/ 3.9-14.2 mm wall*			
180 mm diameter/ 4.2-14.2 mm wall*			
200 mm diameter/ 4.6-14.2 mm wall*			
219 mm diameter/ 5.0-14.2 mm wall*			

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Mineral Wool Insulation - C/U



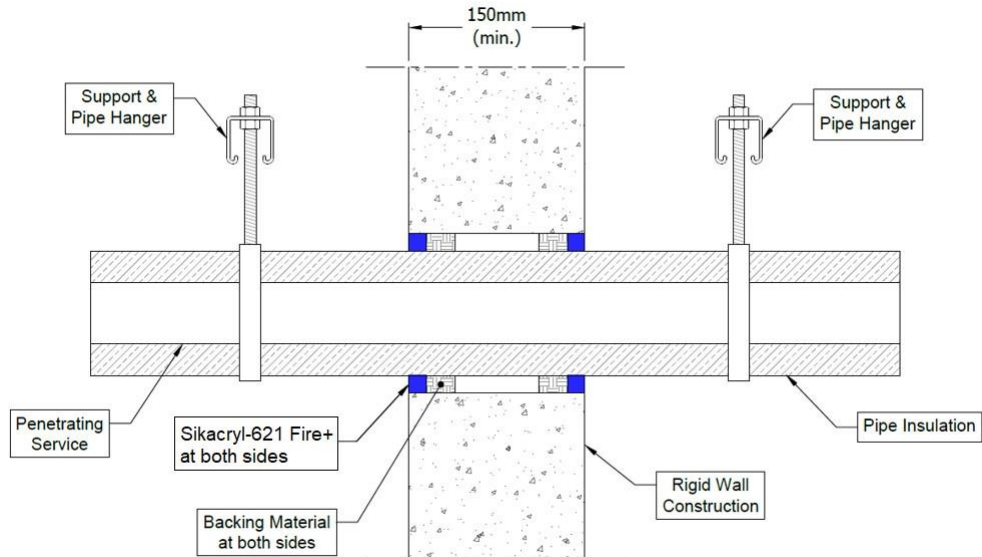
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.7 Double side penetration seal with metallic pipes

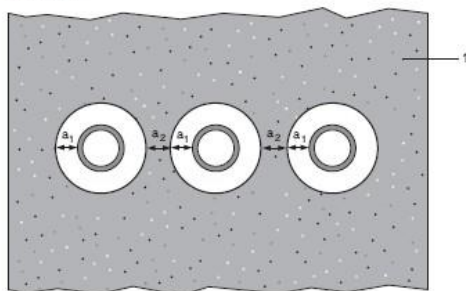
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 504 mm Ø

Construction details:



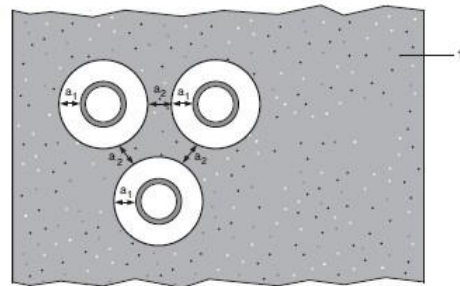
Configuration 1:

Option 1



Configuration 2:

Option 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

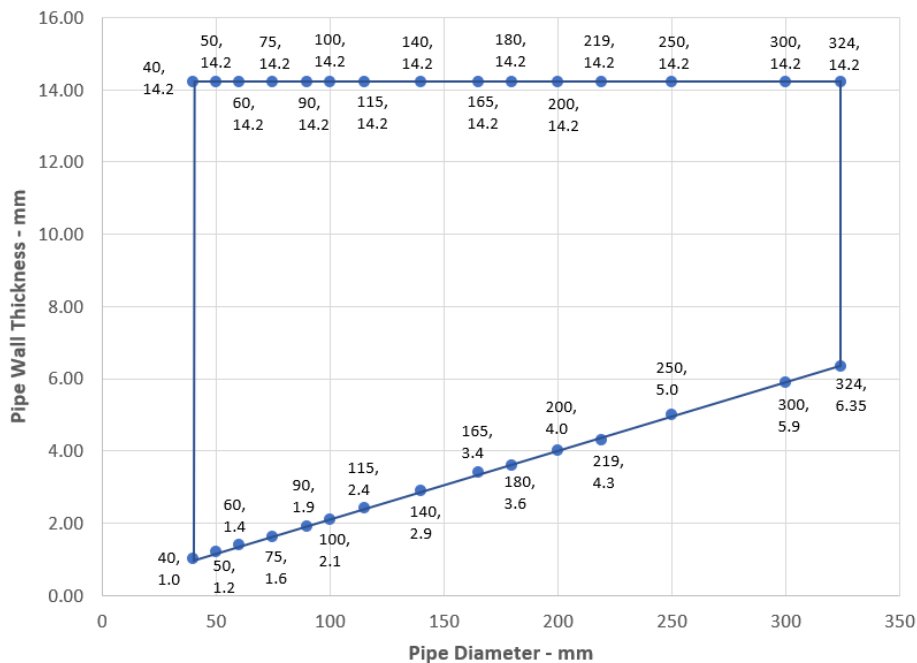
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.7.1 Double side penetration seal with pipes

Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	
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*		

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

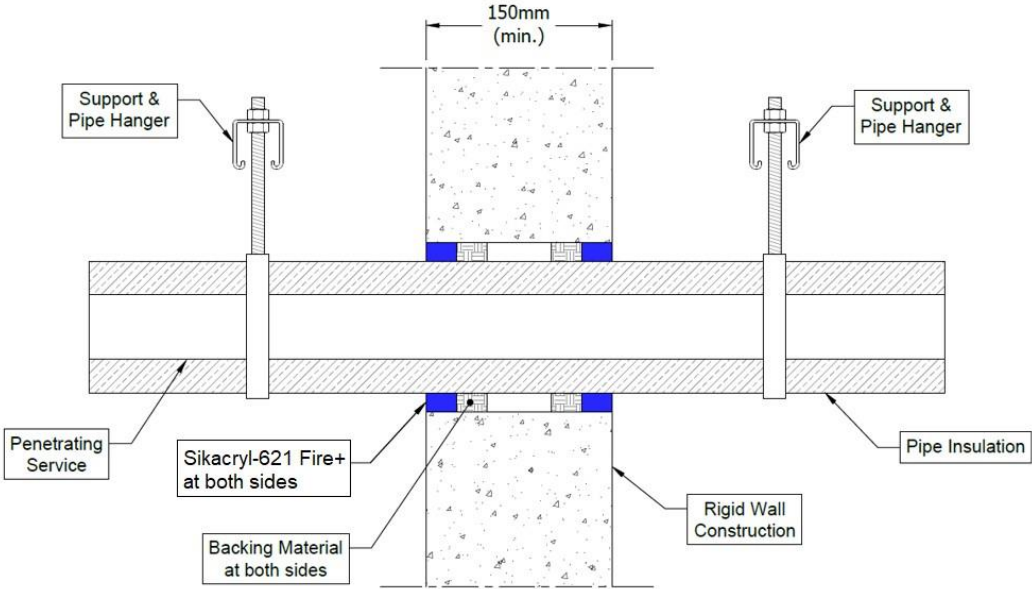
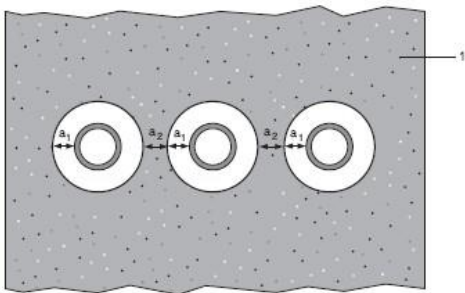
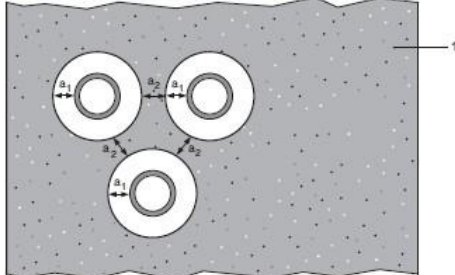
Steel Pipes with Mineral Wool Insulation - C/U



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.8 Double side penetration seal with metallic pipes with combustibles insulation

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 300 mm Ø	
Construction details: 	
Configuration 1: Option 1 	Configuration 2: Option 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

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

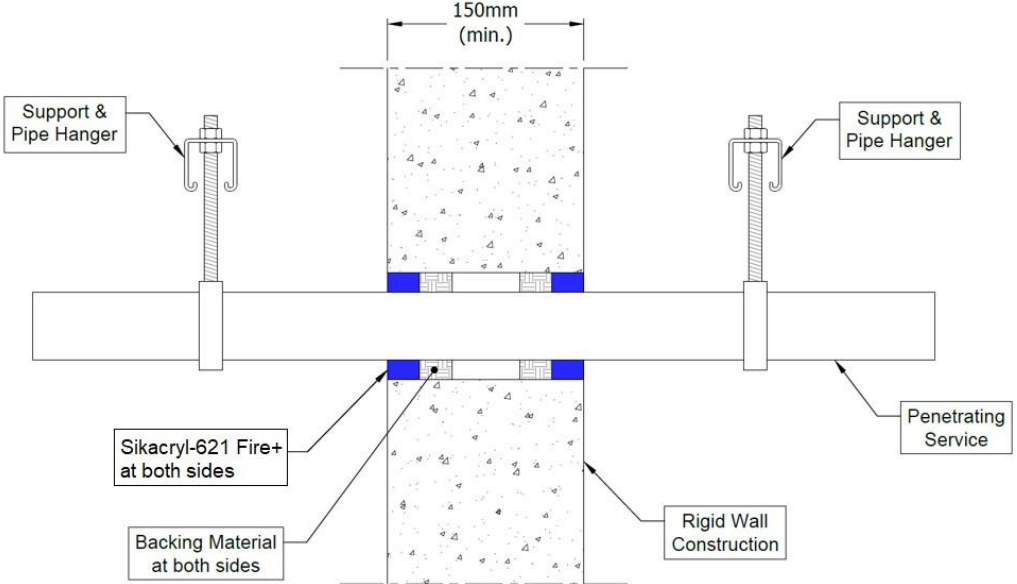
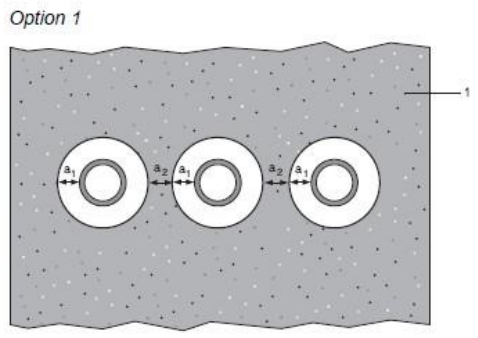
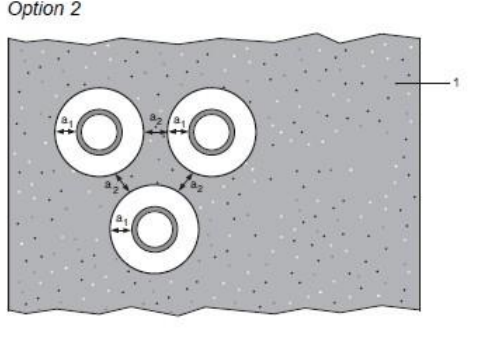
A.1.8.1 Double side penetration seal with metallic pipes with combustible insulation

Services	Insulation	Classification
Mild or stainless steel pipe		
22 mm diameter/2-11 mm wall	13 mm thick Elastomeric insulation minimum class B-s3,d0	E 240 C/U, EI 180 C/U
22-114 mm diameter/2-14.2 mm wall	13-25 mm thick Elastomeric insulation minimum class B-s3,d0	E 120 C/U, EI 90 C/U
22-114 mm diameter/2-14.2 mm wall	25-50 mm thick Elastomeric insulation minimum class B-s3,d0	EI 60 C/U

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.9 Double side penetration seal with plastic pipes

Penetration Seal: Plastic and metal pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 300 mm Ø	
Construction details: 	
Configuration 1: 	Configuration 2: 
Key 1 Supporting construction a1 Pipe / top edge of seal separation a2 Pipe / side edge of seal separation	

A.1.9.1 Double side penetration seal with plastic pipes

Pipe material	Size	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1	6-32 mm diameter/1.0-2.4 mm wall	EI 240 U/C
PVC with bundle of cables up to 21 mm diameter	6-32 mm diameter/1.0-2.4 mm wall	E 240 U/C, EI 120 U/C
PVC with bundle of cables up to 21 mm diameter	40 mm diameter/3.0 mm wall	E 240 U/C, EI 120 U/C
PP pipe according to EN 1451-1 or DIN 8077/8078	32 mm diameter/2.0-4.4 mm wall	EI 180 C/U
	12-32 mm diameter/1.8-4.4 mm wall	EI 240 C/U
PP with bundle of cables up to 21 mm diameter	12-32 mm diameter/1.8-4.4 mm wall	E 180 U/C, EI 120 U/C
PP with bundle of cables up to 21 mm diameter	40 mm diameter/3.7 mm wall	E 180 U/C, EI 120 U/C
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	20-32 mm diameter/2.0 mm wall	EI 240 C/U
	20-32 mm diameter/2.0-4.4 mm wall	EI 120 C/U
PE with bundle of cables up to 21 mm diameter	20-32 mm diameter/2.0-4.4 mm wall	EI 120 U/C
PE with bundle of cables up to 21 mm diameter	40 mm diameter/3.7 mm wall	EI 240 U/C
Copper and steel pipe	6-12 mm diameter/0.6-6.0 mm wall	E 240 C/C, EI 120 C/C
Steel pipe	4-65 mm diameter/1.0-14.2 mm wall	E 240 C/U, EI 20 C/U

Declaration of Performance

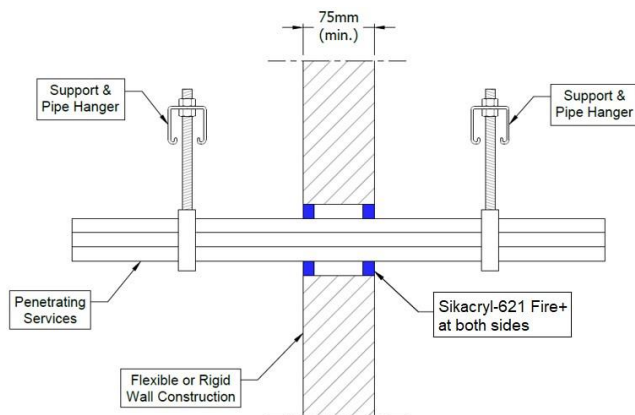
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.2 Flexible and rigid wall constructions according to 2. 2) with wall thickness of minimum 75 mm

A.2.1 Double side penetration seal with cables

Penetration Seal: Cables (single or bundles up to 100 mm Ø) and pipes fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2), maximum seal size 150 x 150 mm / 344 mm diameter (when incorporating a pipe of seal diameter -20 mm).

Construction details:



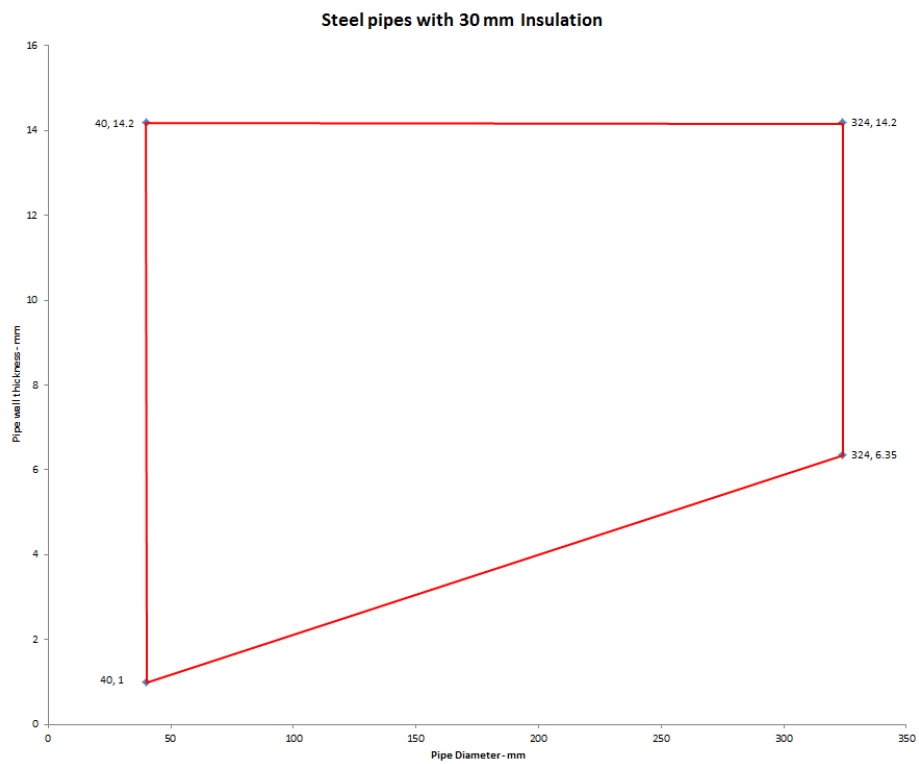
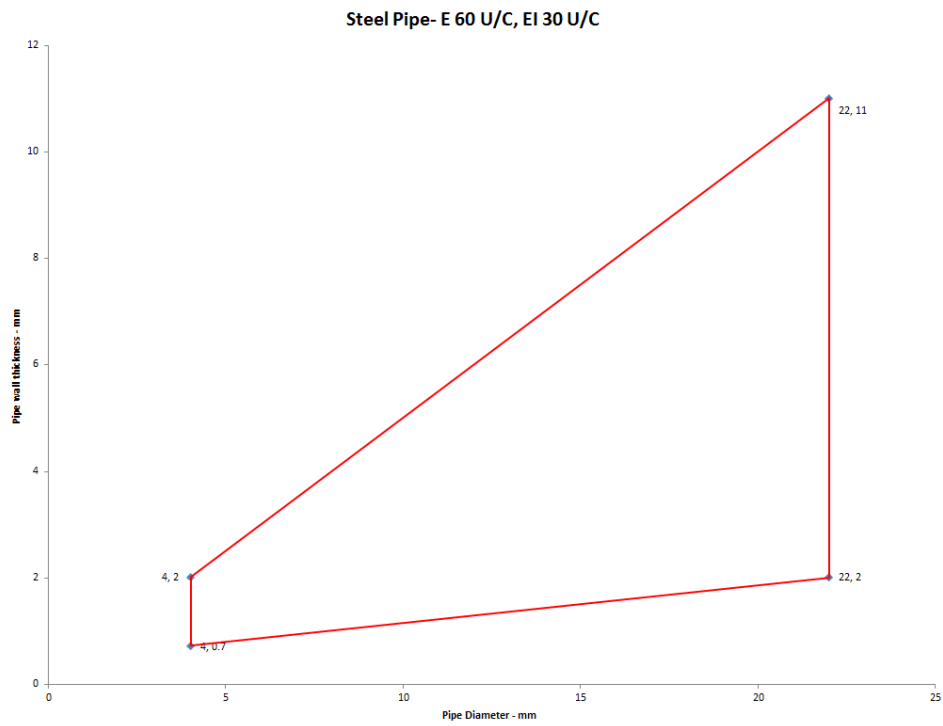
A.2.1.1

Services	Sealant depth	Backing	Classification
None (blank)	12.5 mm	Any material	EI 60
Cables up to 21 mm Ø, single		None	E 60, EI 45
Cables up to 21 mm Ø, in bundles up to 100 mm Ø			E 45, EI 30
Mild or stainless steel pipe			
4 mm diameter /0.7-2.0 mm wall	12.5 mm	None	E 60 C/U, EI 45 C/U
5-22 mm diameter /0.7-11 mm wall*			E 60 C/U, EI 30 C/U
Mild or stainless steel pipe with minimum 80 kg/m ³ density stone wool insulation Continuous Sustained (CS)			
40 mm diameter /1-14.2 mm wall, 20 mm insulation	12.5 mm	None	E 60 C/U, EI 45 C/U
40-324 mm diameter /1.0-14.2 mm wall, 30 mm insulation*			
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
6-32 mm Ø/1.0-1.8 mm wall, with bundle of cables up to 21 mm diameter*	12.5 mm	None	E 60 U/C, EI 45 U/C
PP pipe according to EN 1451-1 or DIN 8077/8078			
20 mm Ø/2.3 mm wall	12.5 mm	None	EI 45 U/C
21-32 mm Ø/2.3-4.4 mm wall*			EI 30 U/C
21-32 mm Ø/2.3-4.4 mm wall, with bundle of cables up to 21 mm diameter*			E 45 U/C, EI 30 U/C
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			
20 mm Ø/2.0 mm wall	12.5 mm	None	EI 45 U/C
21-32 mm Ø/2.0-3.0 mm wall*			EI 30 U/C
21-32 mm Ø/2.0-3.0 mm wall, with bundle of cables up to 21 mm* diameter			E 45 U/C, EI 30 U/C

* See below graphs for interpolated pipe sizes

Declaration of Performance

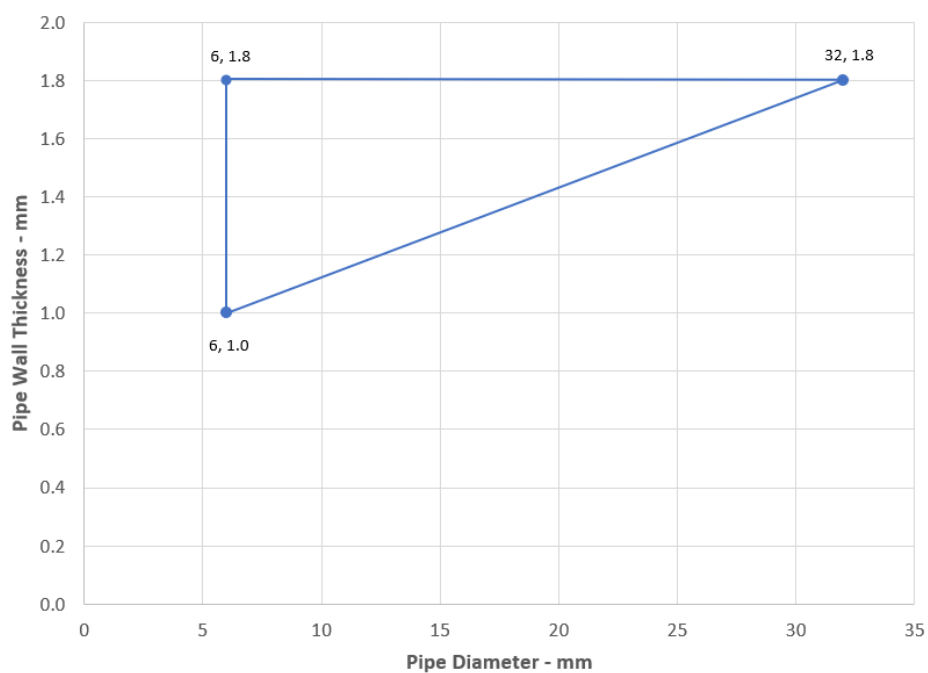
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549



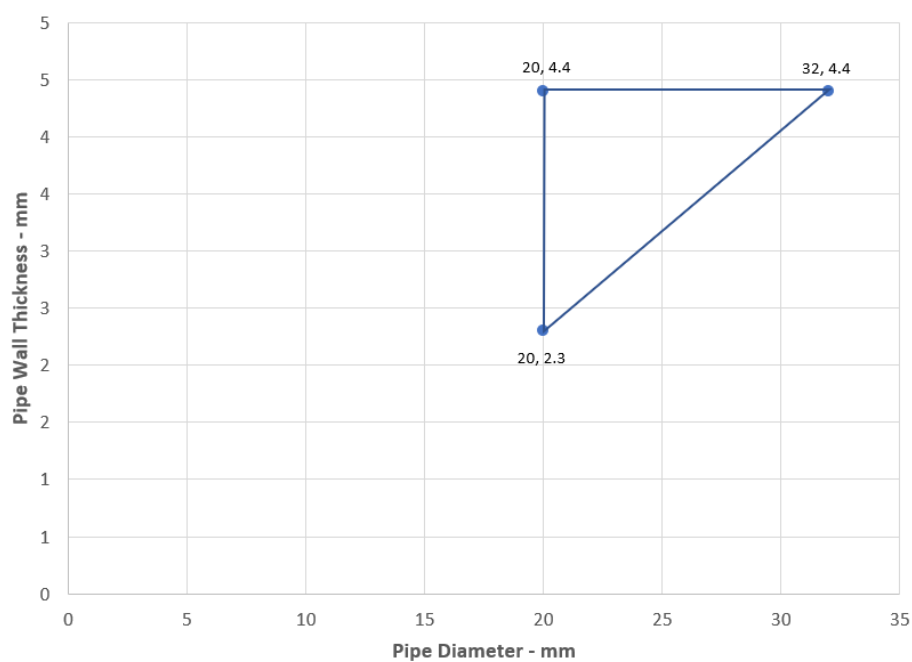
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PVC-U Pipes - U/C



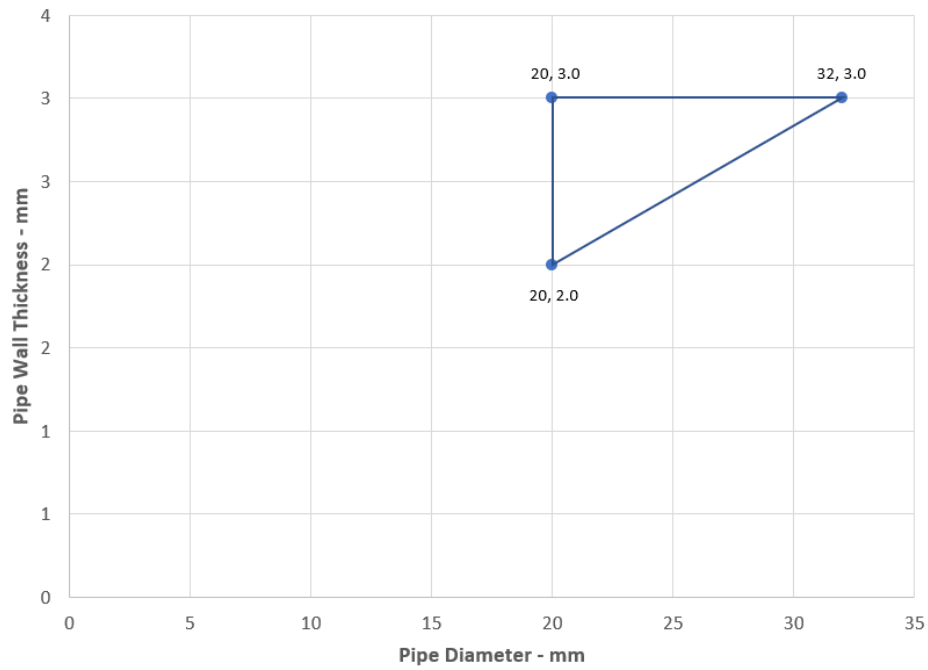
PP Pipes - EI 30 U/C



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PE Pipes - EI 30 U/C



Declaration of Performance

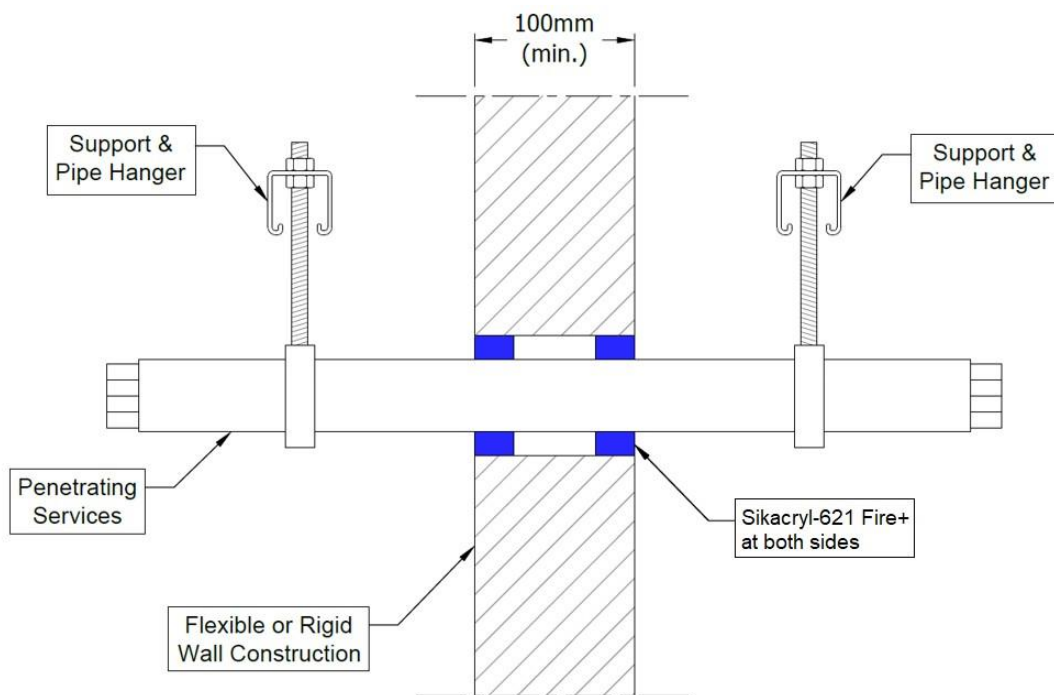
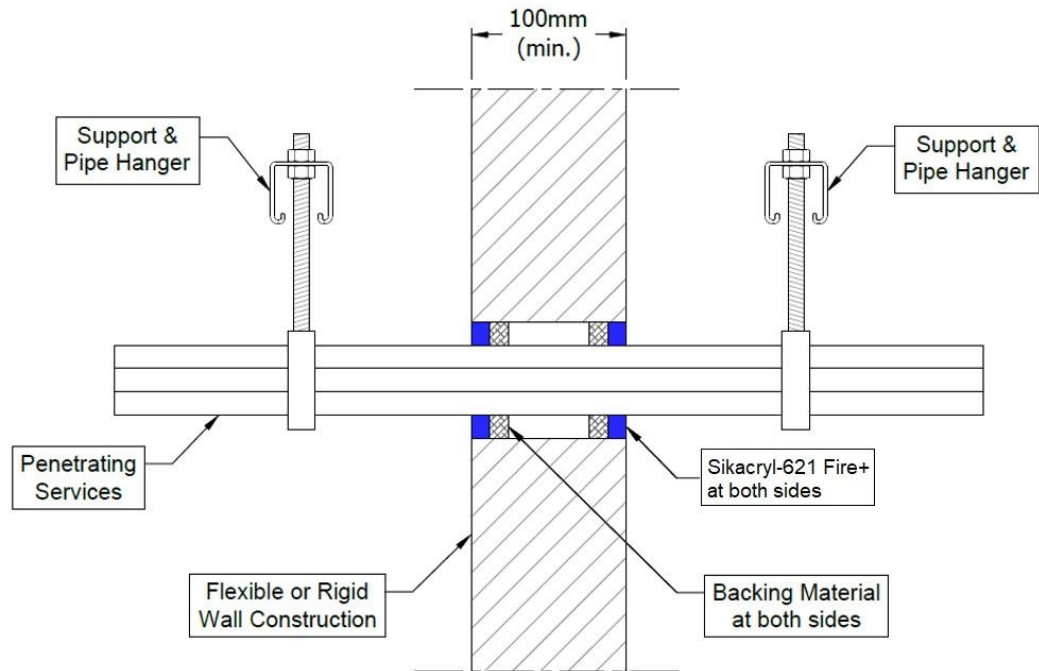
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 100 mm

A.3.1 Double side penetration seal with cables

Penetration Seal: Cables (single or bundles up to 100 mm $\varnothing$) and conduits fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall.

Construction details:



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.1.1

Services	Sealant depth	Backing	Maximum aperture	Classification
None (blank)	12.5 mm	Stone wool 20 mm deep 35-140 kg/m ³	300 x 300 mm*	EI 120
Cables up to 21 mm Ø, single or in bundles up to 50 mm Ø	12.5 mm	Stone wool 12.5 mm deep min. 33 kg/m ³		E 120, EI 90
Electrical cables up to 21 mm Ø, single or in bundles up to 100 mm Ø	25 mm	Stone wool 20 mm deep min. 40 kg/m ³		EI 120
Electrical cables up to 80 mm Ø, single or in bundles up to 100 mm Ø		25 mm AES Fibre ≥ 128kg/m ³		E 120, EI 60
Single 'E cable' - 1 x 185 mm ² core HD603.3 electrical cable with PVC insulation, PVC sheath and 23-27 mm diameter	12.5 mm	Stone wool 20 mm deep min. 140 kg/m ³		E 120, EI 60
Single or bundled electrical cables up to 21 mm Ø, with or without trays	12.5 mm	25 mm AES Fibre ≥ 128kg/m ³	600 x 600 mm	E 90, EI 60
Single or bundled electrical cables up to 80 mm Ø, with or without trays				E 90, EI 30
Single or bundled electrical conduits up to 32 mm Ø, with or without trays				E 60, EI 45

* Or 30 mm wide x 3000 mm high for cables up to 21 mm Ø

Services	Sealant depth	Backing	Maximum Annular space	Classification
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1				
Maximum diameter 40 mm, wall thickness 1.0-1.9 mm for PVC pipes, fully or partially filled conduits with cables up to 21 mm diameter	25 mm	none	30 mm	EI 120 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				
Maximum diameter 40 mm, wall thickness 2.0-3.0 mm for PE pipes, fully or partially filled conduits with cables up to 21 mm diameter	25 mm	none	30 mm	EI 90 U/C
PP pipe according to EN 1852-1: 2009 or DIN 8077/8078				
Maximum diameter 40 mm, wall thickness 1.8-2.2 mm for PP pipes, fully or partially filled conduits with cables up to 21 mm diameter	25 mm	none	30 mm	EI 90 U/C

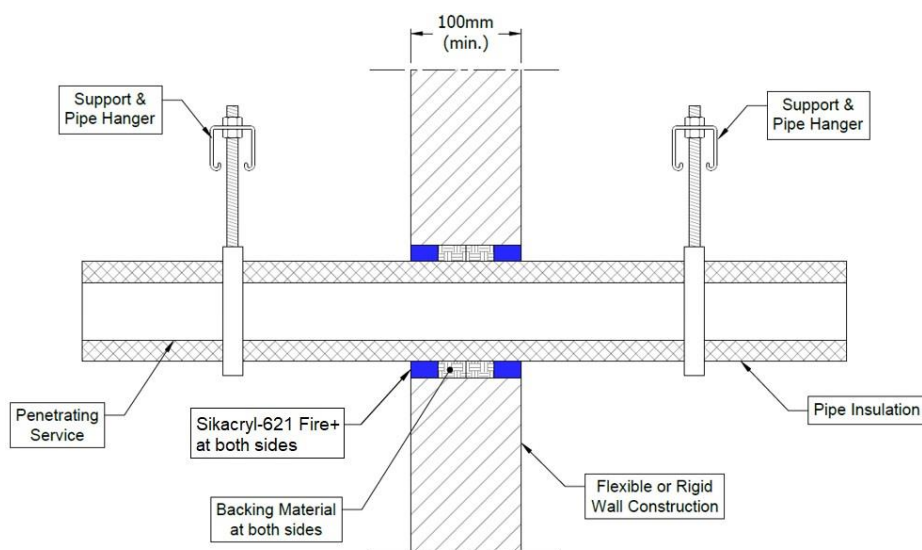
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.2 Double side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, backed with stone wool insulation or AES Fibre $\geq 128\text{kg/m}^3$, 300 x 300 mm maximum seal size.

Construction details:



A.3.2.1

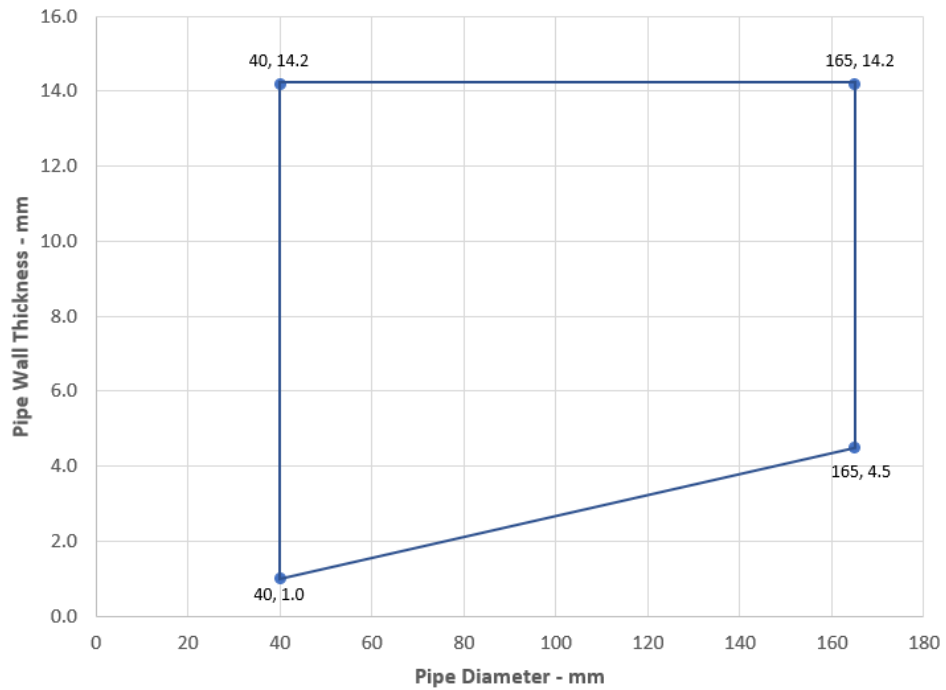
Services	Sealant depth	Backing (minimum)	Insulation	Classification
Mild or stainless steel pipe				
22 mm diameter/3-10 mm wall	25 mm	Stone wool 25 mm deep 35 kg/m ³	None	EI 120 C/C
Maximum 165 mm diameter/ wall*	12.5 mm	12.5 mm stone wool 33 kg/m ³	9 mm Elastomeric insulation minimum class D-s3, d0	E 90 C/U EI 45 C/U
			13 -25 mm Elastomeric insulation minimum class D-s3, d0	EI 60 C/U
40 mm diameter/1-14.2 mm wall*	12.5 mm	20 mm Stone wool 40 kg/m ³		EI 120 C/C
40 mm diameter/1-14.2 mm wall*	25 mm	25 mm AES Fibre $\geq 128\text{kg/m}^3$	13 -19 mm Elastomeric insulation minimum class B-s3,d0	E 120 C/C 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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Elastomeric Insulation - C/U



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

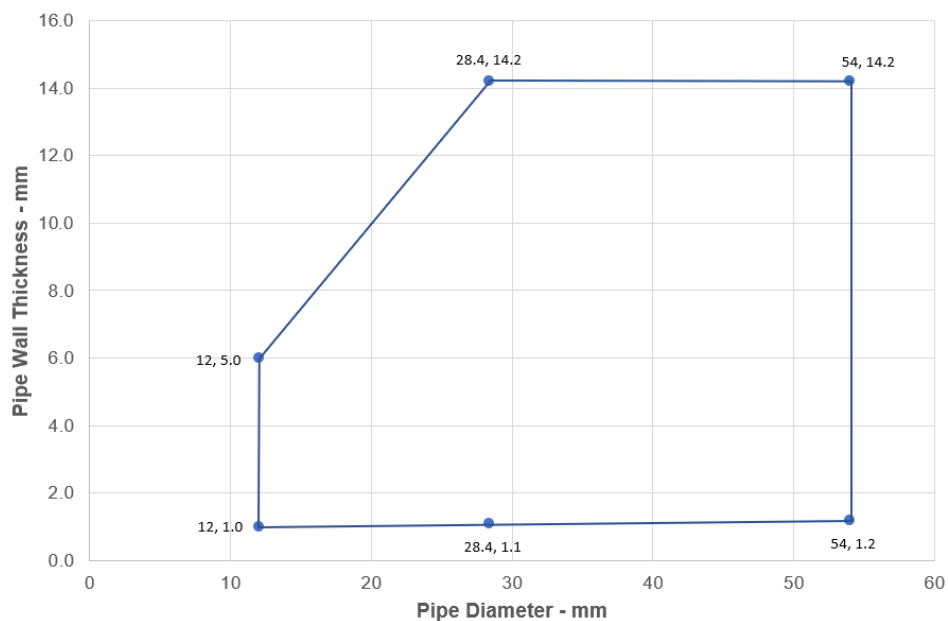
Services	Sealant depth	Backing	Insulation	Classification
Copper or steel pipe				
12 mm diameter/1-6 mm wall	25 mm	25 mm AES Fibre ≥ 128kg/m³	9 mm Elastomeric insulation minimum class B-s3,d0	EI 120 C/C
12-54 mm diameter/1-14.2 mm wall*			9-18 mm Elastomeric insulation minimum class B-s3,d0	E 120 C/C, EI 60 C/C
12-54 mm diameter/1-14.2 mm wall*			19 mm Elastomeric insulation minimum class B-s3,d0	E 120 C/C, EI 90 C/C
12-54 mm diameter/1-14.2 mm wall*			20-25 mm Elastomeric insulation minimum class B-s3,d0	EI 60 C/C
15-54 mm diameter/0.7-14.2 mm wall*		None required	15 mm Phenolic foam insulation	E 120 C/C, EI 60 C/C
15-54 mm diameter/0.7-14.2 mm wall*			16-30 mm Phenolic foam insulation	E 90 C/C, EI 60 C/C
15-159 mm diameter/0.7-14.2 mm wall*			15-100 mm Phenolic foam insulation	E 45 C/C, EI 30 C/C
15-159 mm diameter/0.7-14.2 mm wall*		25 mm around one layer of SikaSeal-629 Fire Wrap+ (1.8 x 50 mm)	100 mm Phenolic foam insulation	EI 60 C/C
Alupex Composite Pipe				
16 mm diameter/ wall*	12.5 mm	12.5 mm stone wool 33 kg/m³	9 mm Elastomeric insulation minimum class D-s3, d0	E 120 C/C EI 90 C/C
Maximum 75 mm diameter/ wall*				13-24 mm Elastomeric insulation minimum class D-s3, d0
			25 mm Elastomeric insulation minimum class D-s3, d0	EI 90 C/C
			16 mm diameter/2.25 mm wall	25 mm
16 mm diameter/2.25 mm wall	9-25 mm Elastomeric insulation minimum class B-s3,d0	EI 60 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				

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

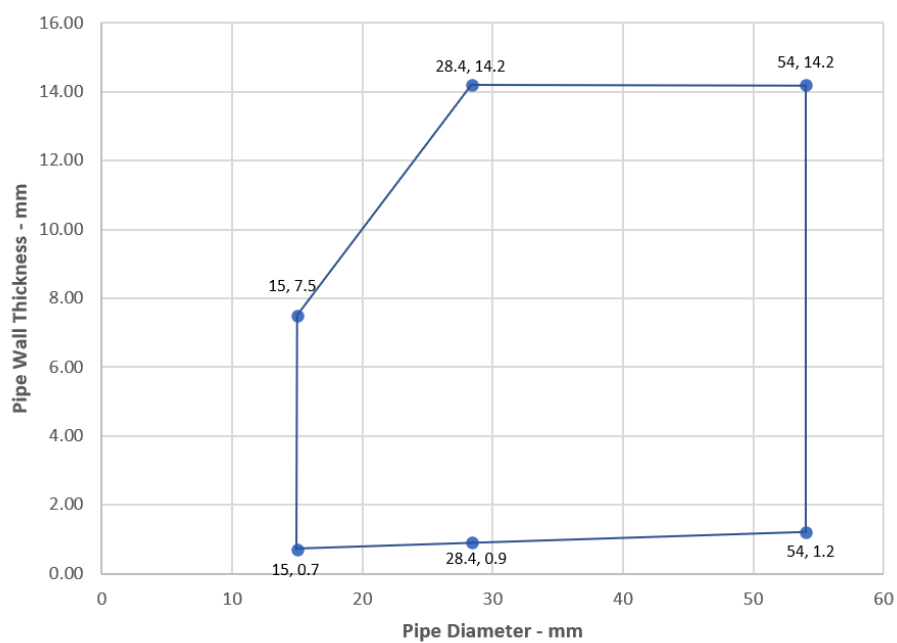
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Elastomeric Insulation - C/C



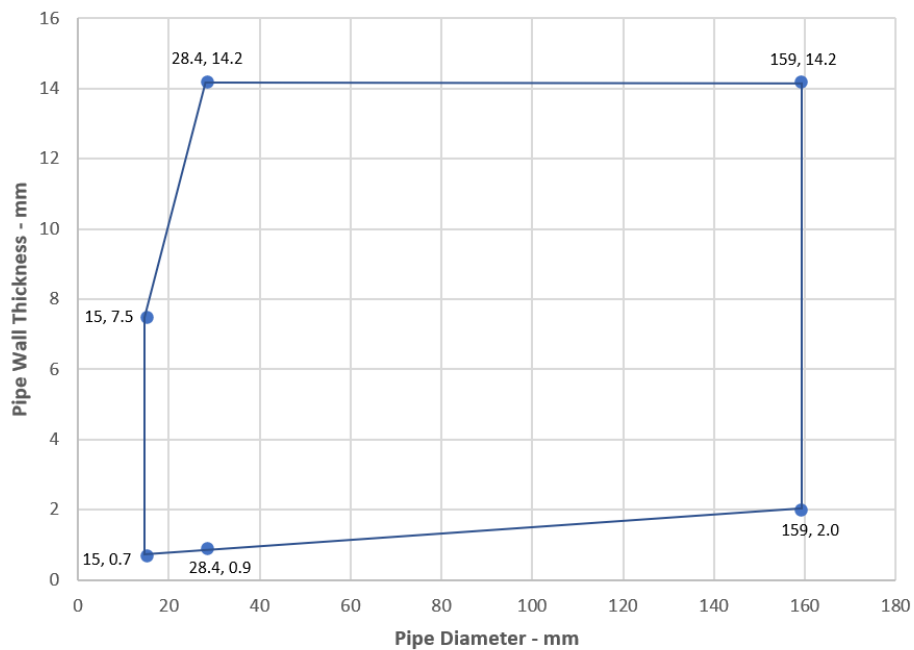
Copper or Steel Pipes with Phenolic Foam Insulation - C/C



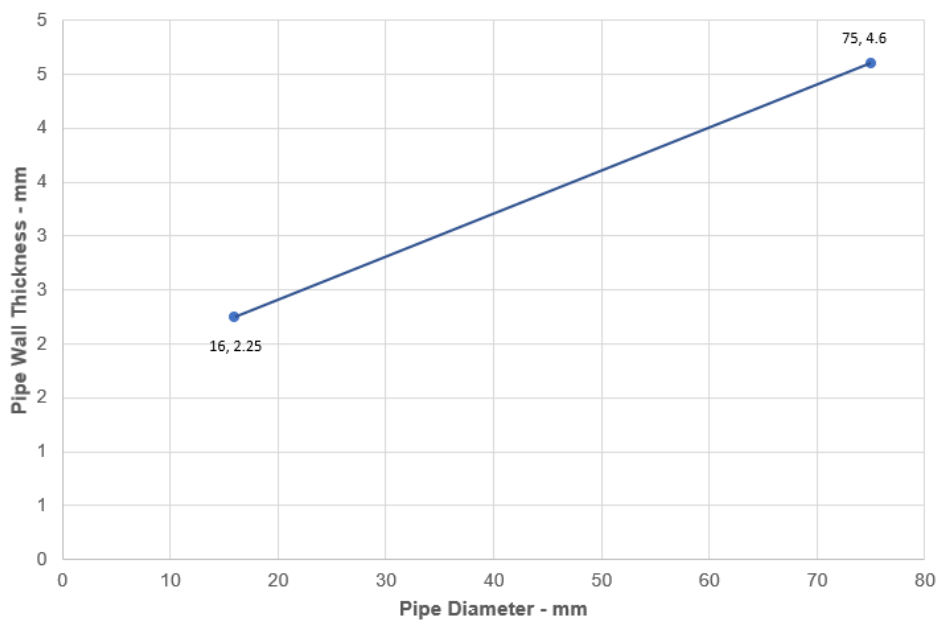
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Phenolic Foam Insulation - C/C



Alupex Pipes with Elastomeric Insulation - C/C



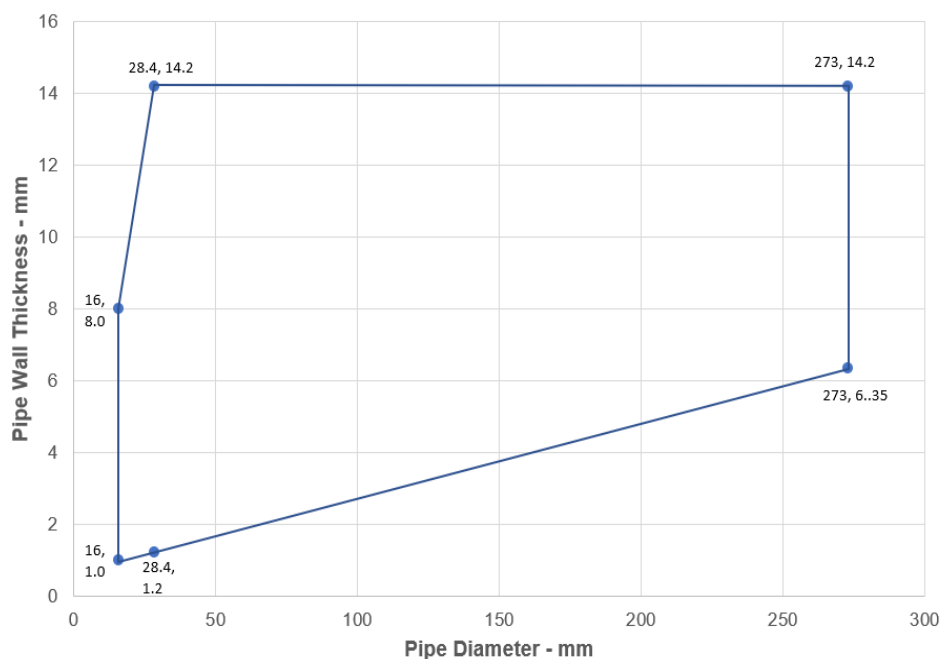
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Mild or stainless steel pipe				
16 mm diameter/ wall*	25 mm	None	15 mm thick phenolic insulation	EI 90 C/U
Maximum 273 mm/ wall*			25 mm thick phenolic insulation	E 90 C/U, EI 60 C/U
			26-100 mm thick phenolic insulation	EI 60 C/U

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

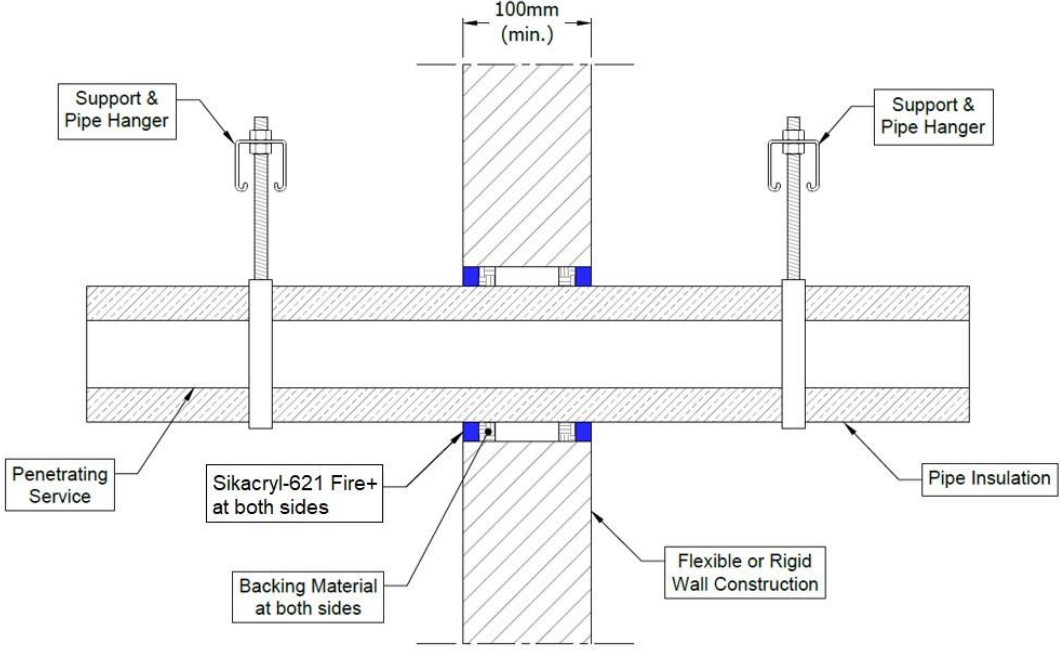
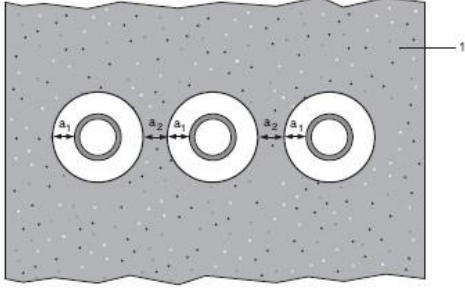
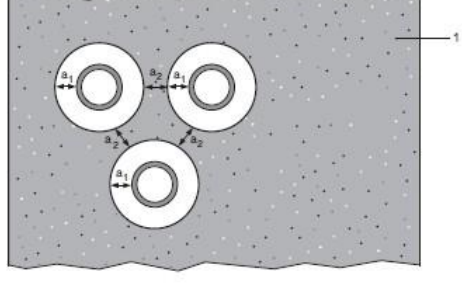
Steel Pipes with Phenolic Insulation - C/U



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.3 Double side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 12.5 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 12.5 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 504 mm Ø	
Construction details: 	
Configuration 1: <i>Option 1</i> 	Configuration 2: <i>Option 2</i> 
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

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

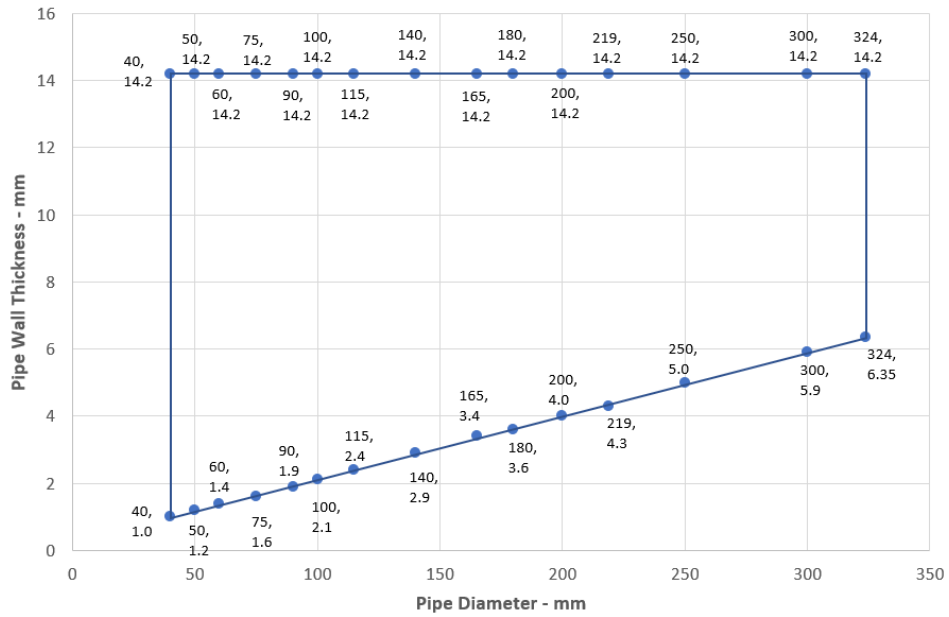
A.3.3.1 Double side penetration seal with pipes

Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	E 120 C/U EI 90 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	
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*		
12 mm diameter/0.6-6.0 mm wall	20 mm thick glass or stone, mineral wool min. 75 kg/m ³ (CS, or LS at 550 mm each side)	EI 60 C/C
40 mm diameter/1.1-14.2 mm wall*	30-60 mm thick glass or stone, mineral wool min. 75 kg/m ³ (CS, or LS at 550 mm each side)	
50 mm diameter/1.3-14.2 mm wall*		
60 mm diameter/1.4-14.2 mm wall*		
75 mm diameter/1.7-14.2 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/2.8-14.2 mm wall*		
165 mm diameter/ 3.2-14.2 mm wall*		
180 mm diameter/ 3.5-14.2 mm wall*		
200 mm diameter/ 3.8-14.2 mm wall*		
219 mm diameter/ 4.1-14.2 mm wall*		
250 mm diameter/ 4.6-14.2 mm wall*		
273 mm diameter/ 5.0-14.2 mm wall*		

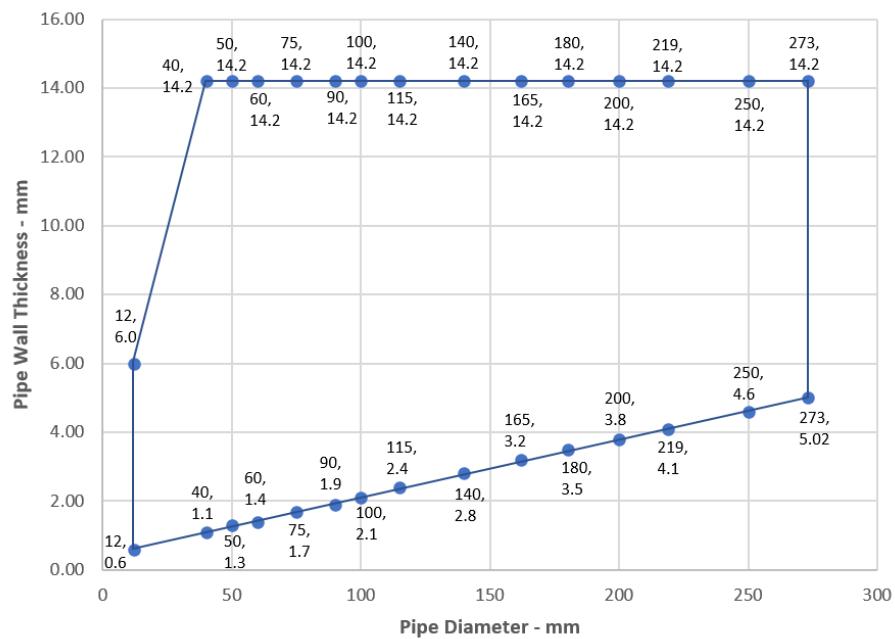
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Mineral Wool Insulation - C/U



Steel Pipes with Glass or Stone Wool Insulation - C/C

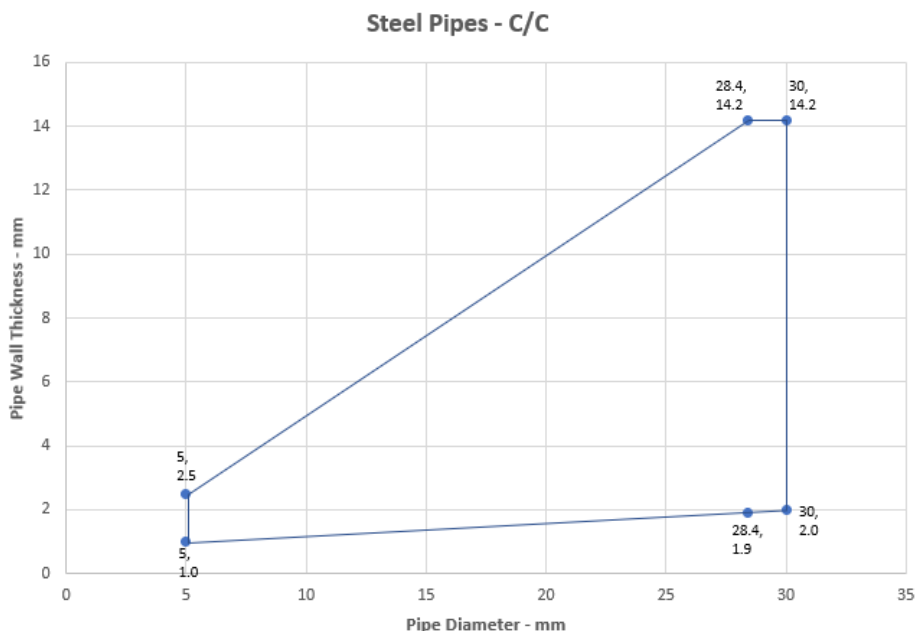


Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Insulation	Classification
PEX pipe in pipe system		
15 mm diameter x 2.5 mm wall inner /25mm diameter outer	None	EI 120 C/C
Alupex pipe		
16-20 mm diameter/2.0 mm wall	None	EI 120 C/C
16-75 mm diameter/2.25-4.6 mm	20-50 mm thick glass wool or stone, mineral wool min. 75 kg/m ³	EI 120 C/C
16-75 mm diameter/2.25-4.7 mm	60 mm thick glass wool or stone, mineral wool min. 75 kg/m ³	EI 60 C/C
Mild or Stainless Steel pipe		
4 mm diameter/1.0-2.0 mm wall	None	EI 90 C/C
5-30 mm diameter/1.0-14.2 mm wall*		
30 mm diameter/2.0-14.2 mm wall		EI 120 C/U
Copper or Steel pipe		
6-12 mm diameter/0.7-6.0 mm wall*	None	E 90 C/C, EI 60 C/C
13-22 mm diameter/0.7-11 mm wall*		E 90 C/C, EI 30 C/C
12-54 mm diameter/0.9-14.2 mm wall*	20-80 mm thick stone, mineral wool min. 80 kg/m ³	E 120 C/C, EI 60 C/C
12-54 mm diameter/0.6-14.2 mm wall*	20-60 mm thick glass wool or stone, mineral wool min. 75 kg/m ³ (CS, or LS at 550 mm each side)	EI 60 C/C

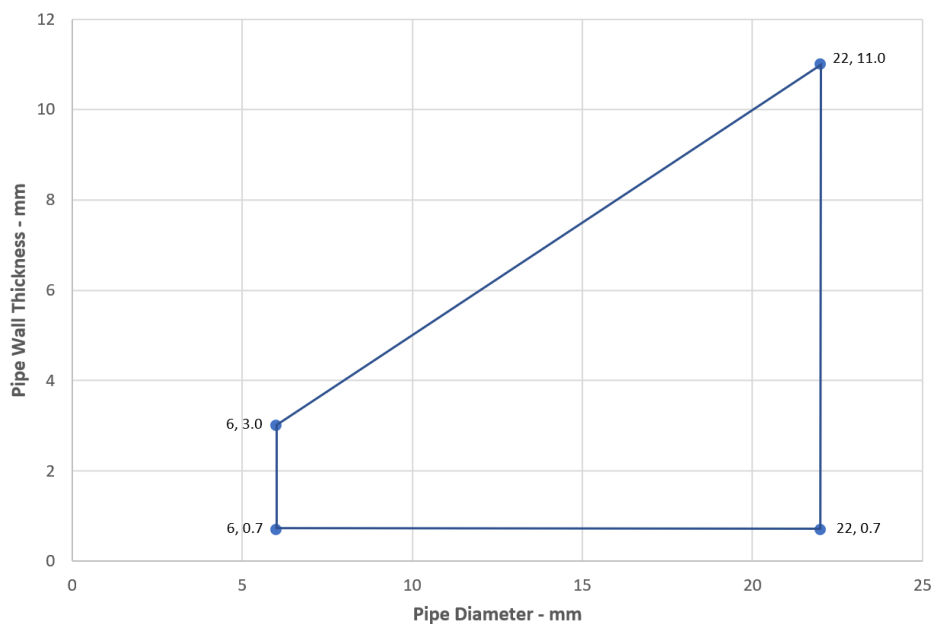
* See below graphs for interpolated pipe sizes



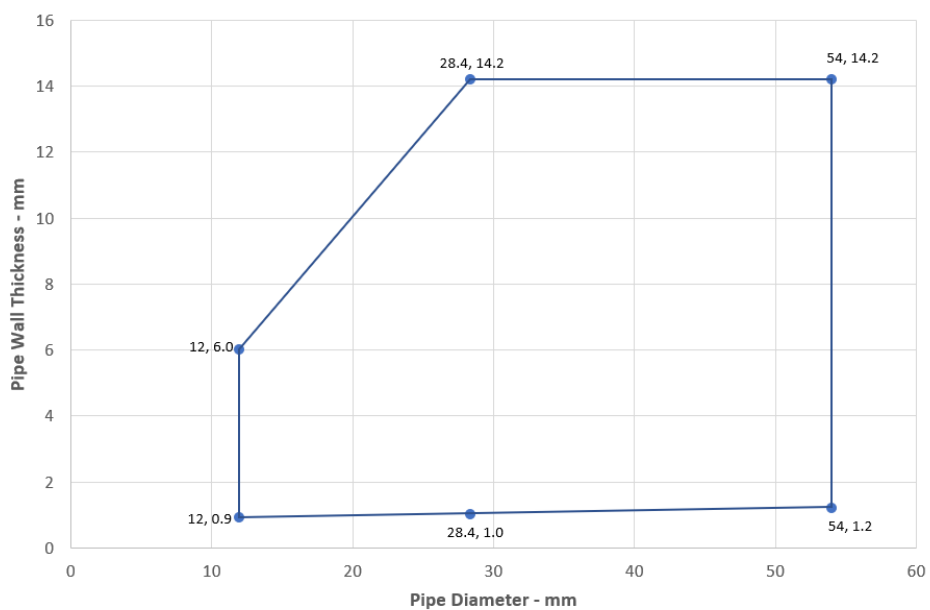
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes - C/C



Copper or Steel Pipes with Mineral Wool Insulation - C/C



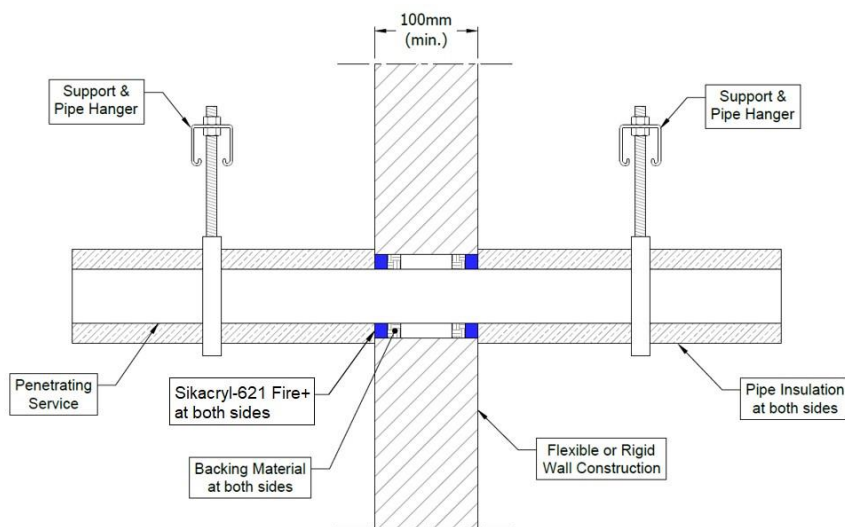
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.4 Double side penetration seal with composite pipes

Penetration Seal: CI (Continuous Interrupted) or LI (Locally Interrupted) insulated composite pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, minimum 10 mm seal width around service, maximum seal size 300 x 300 mm, backed with stonewool.

Construction details:



3.4.1

Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 mm wall	12.5 mm	12.5 mm stonewool 40 kg/m ³	20 mm stonewool 80 kg/m ³ , 500 mm length from both sides of the seal	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				
16 mm diameter/2.25 mm wall	12.5 mm	12.5 mm stonewool 33 kg/m ³	20 mm glass wool 75 kg/m ³ , 500 mm length from both sides of the seal	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				

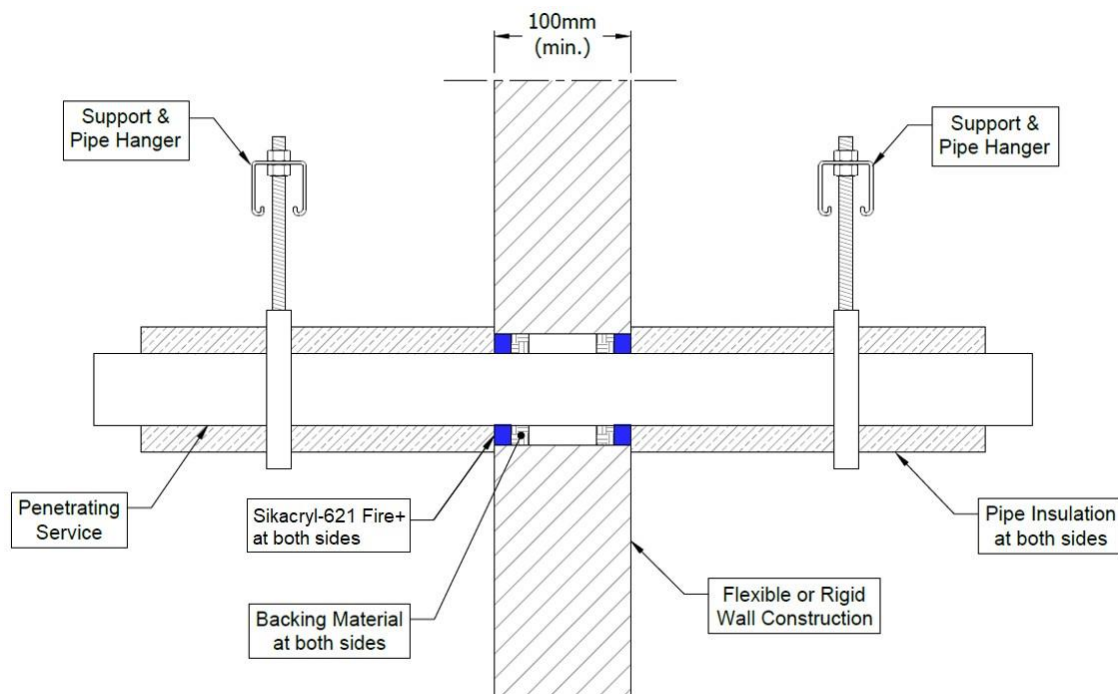
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.5 Double side penetration seal with metallic (and composite) pipes

Penetration Seal: LI (Local Interrupted) of minimum length stated below or CI (Continuous Interrupted) insulated metallic pipes and composite (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, min. 10 mm seal width around service, backed with stone wool insulation or AES Fibre $\geq 128\text{kg/m}^3$.

Construction details:



A.3.5.1

Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Maximum aperture size 300 x 300 mm				
Copper or steel pipe up to 54 mm diameter/1-14.2 mm wall	12.5 mm	20 mm Stone wool 40 kg/m ³	500 mm length of 20 mm stone wool 80 kg/m ³	EI 120 C/U
Copper or steel pipe up to 159 mm diameter/0.6-14.2 mm wall		12.5 mm stone wool 33 kg/m ³	1000 mm length of 30 mm stone wool 80 kg/m ³	EI 60 C/C
Copper or steel pipe up to 54 mm diameter/0.6-14.2 mm wall		12.5 mm stone wool 33 kg/m ³	500 mm length of 20 mm glass wool 75 kg/m ³	E 120 C/C, EI 60 C/C
Copper or steel pipe up to 108 mm diameter/0.6-14.2 mm wall		12.5 mm stone wool 33 kg/m ³	500 mm length of 30 mm glass wool 75 kg/m ³	E 120 C/C, EI 30 C/C
Alupex composite pipe 75 mm diameter/7.5 mm wall		20 mm Stone wool 140 kg/m ³	600 mm length of 25 mm AES Fibre $\geq 128\text{kg/m}^3$	EI 60 C/U

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

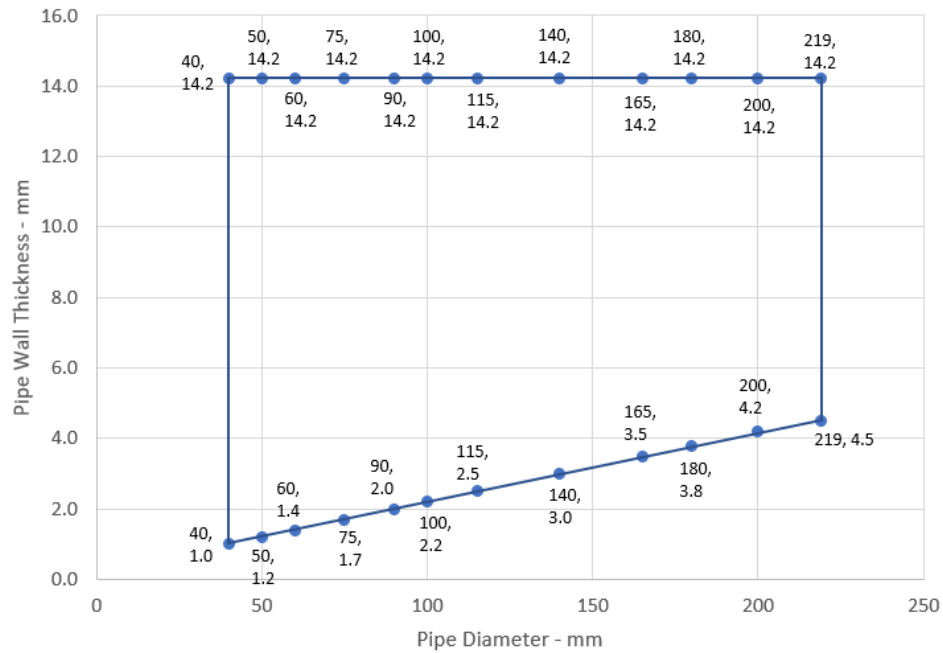
Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Mild or stainless steel pipe				
Maximum aperture size 300 x 300 mm				
40 mm diameter/1-14.2 mm wall	12.5 mm	20mm Stone wool 40 kg/m ³	500 mm length of 20 mm stone wool 80 kg/m ³	EI 120 C/U
40 mm diameter/1-14.2 mm wall*			500 mm length of 30 mm stone wool 80 kg/m ³	E 120 C/U, 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/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*	12.5 mm	20mm Stone wool 40 kg/m ³	500 mm length of 30 mm stone wool 80 kg/m ³	E 120 C/U, EI 90 C/U
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				
12 mm diameter/0.6-6.0 mm wall	12.5 mm	12.5mm Stone wool 33 kg/m ³	500 mm length of 30 mm glass wool 75 kg/m ³	E 120 C/C, EI 60 C/C
40 mm diameter/1.1-14.2 mm wall*				
50 mm diameter/1.3-14.2 mm wall*				
60 mm diameter/1.4-14.2 mm wall*				
75 mm diameter/1.7-14.2 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/2.8-14.2 mm wall*				
165 mm diameter/3.2-14.2 mm wall*				
180 mm diameter/3.5-14.2 mm wall*				
200 mm diameter/3.8-14.2 mm wall*				
219 mm diameter/4.1-14.2 mm wall*				
273 mm diameter/5.0-14.2 mm wall*				

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

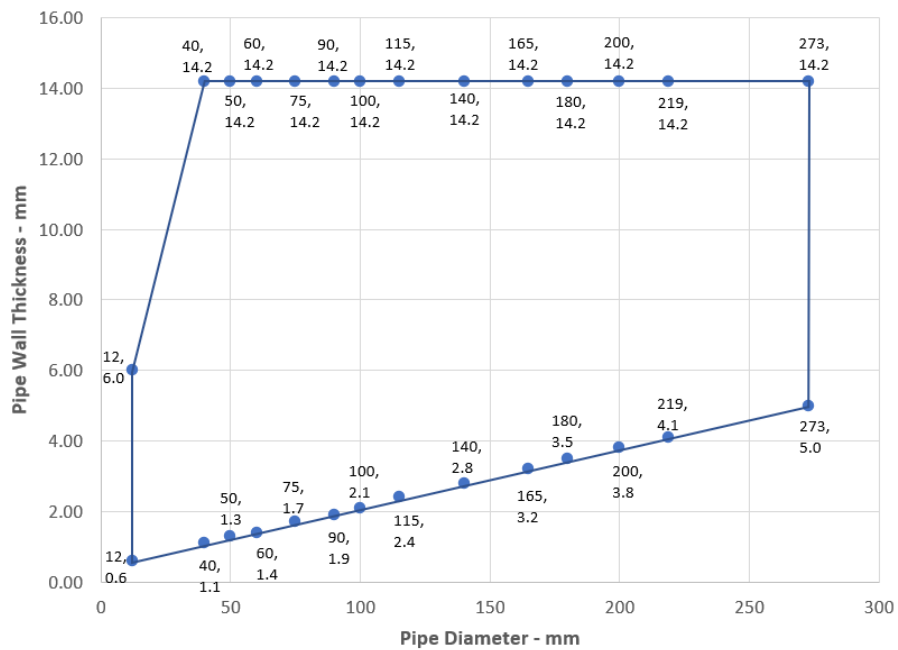
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Mineral Wool Insulation - C/U



Steel Pipes with Glass Wool Insulation - C/C



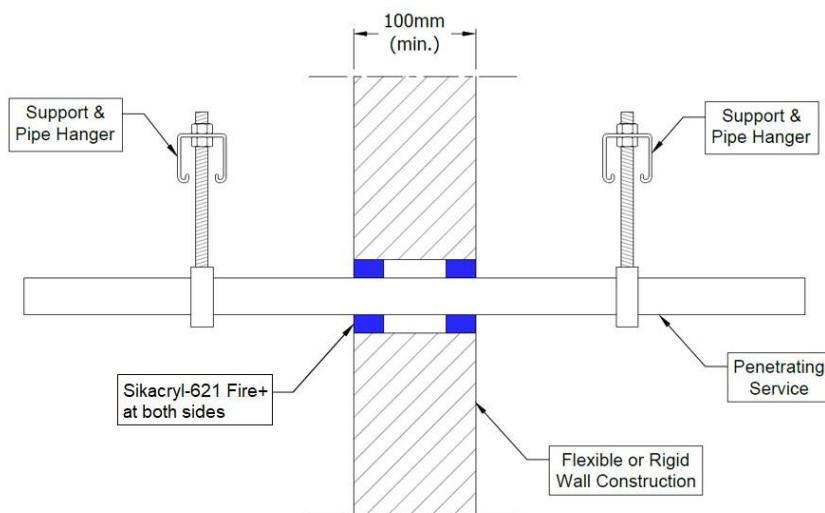
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.6 Double side penetration seal with plastic pipes

Penetration Seal: Combustible pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, Minimum annular space 10 mm and minimum separation between penetration seals 30 mm (a2).

Construction details:



A.3.6.1

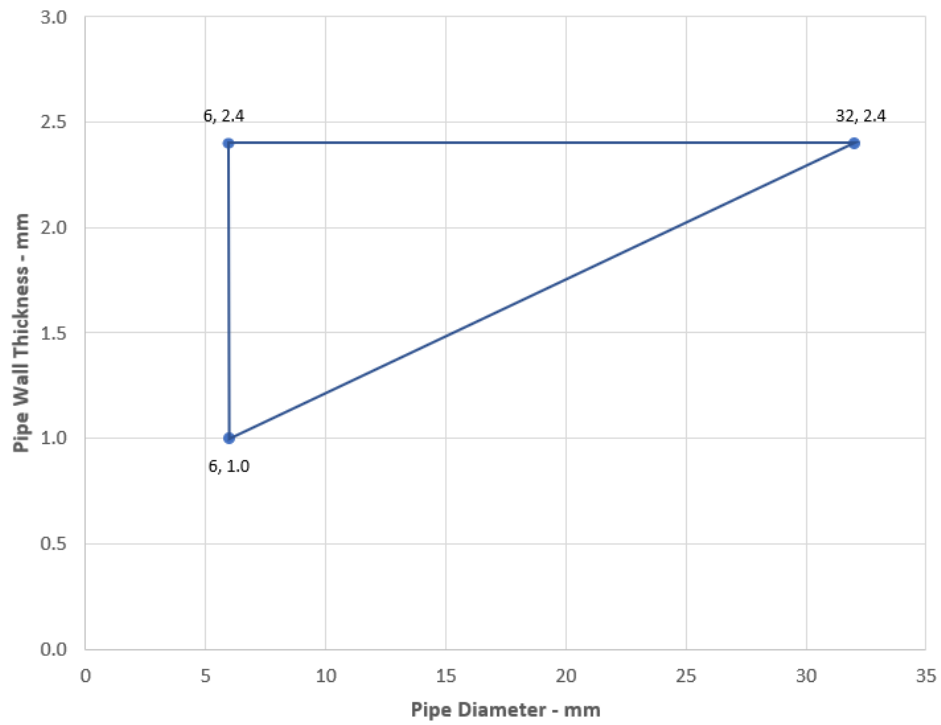
Pipe material	Sealant depth	Pipe size	Maximum Annular space	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1	25 mm	6-32 mm Ø/1.0-2.4 mm wall*	10 mm	EI 120 U/C
		6-32 mm Ø/1.0-1.6 mm wall	30 mm	E 120 U/C, EI 90 U/C
20 mm Ø/2.2 mm wall		EI 120 C/C		
PP pipe according to EN 1451-1 or DIN 8077/8078		20 mm Ø/2.2-4.4 mm wall	30 mm	EI 120 U/C
		20-32 mm Ø/1.8-4.4 mm wall		EI 60 U/C
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		20 mm Ø/2.0 mm wall	30 mm	EI 60 C/C
		20-32 mm Ø/2.0-3.0 mm wall	30 mm	EI 120 U/C
Uponor Wirsbo PEX pipe in pipe system according to ISO 15875		Diameter up to 54 mm/0.4 mm wall thickness (outer pipe), 28 mm diameter/4.0 mm wall thickness (inner pipe)	30 mm	EI 90 C/C
Insulated pipe in pipe system according to ISO 15875		Diameter up to 34 mm/1.0 mm wall thickness (outer pipe), 22 mm diameter/3.0 mm wall thickness (inner pipe), insulated with 9 mm thick polyethylene foam	30 mm	E 60 C/C, EI 45 C/C
			EI 45 C/C	

* See below graphs for interpolated pipe sizes

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PVC-U Pipes - U/C



Declaration of Performance

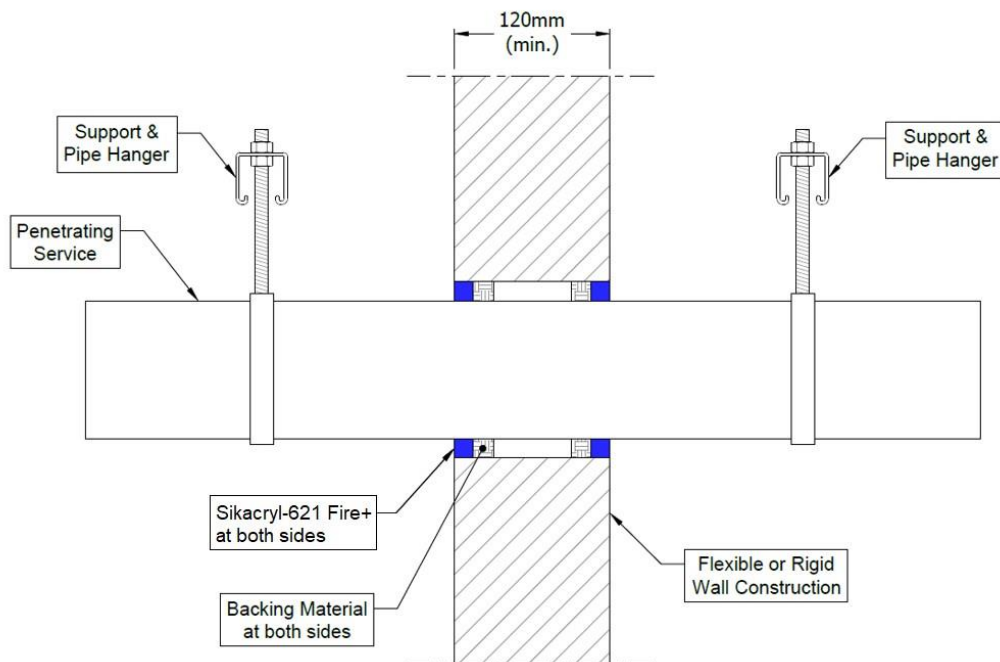
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74951760
2025.01. , ver. 1
1549

A.4 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 120 mm

A.4.1 Double side penetration seal with cables

Penetration Seal: Non-insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm deep Sikacryl-621 Fire+ to both sides of the wall, backed with stone wool insulation.

Construction details:



A.4.1.1

Services	Sealant depth	Backing	Classification
Mild or stainless steel pipe			
30 -324 mm diameter /1.6-14.2 mm wall	15 mm	15 mm stone wool	E 120 C/U
Copper or steel pipe			
12 -54 mm diameter /0.9-14.2 mm wall	15 mm	15 mm stone wool	E 120 C/C
Alupex Pipe			
16-75 mm diameter/2.0-4.6 mm wall	15 mm	15 mm stone wool	E 120 C/C, EI 30 C/C

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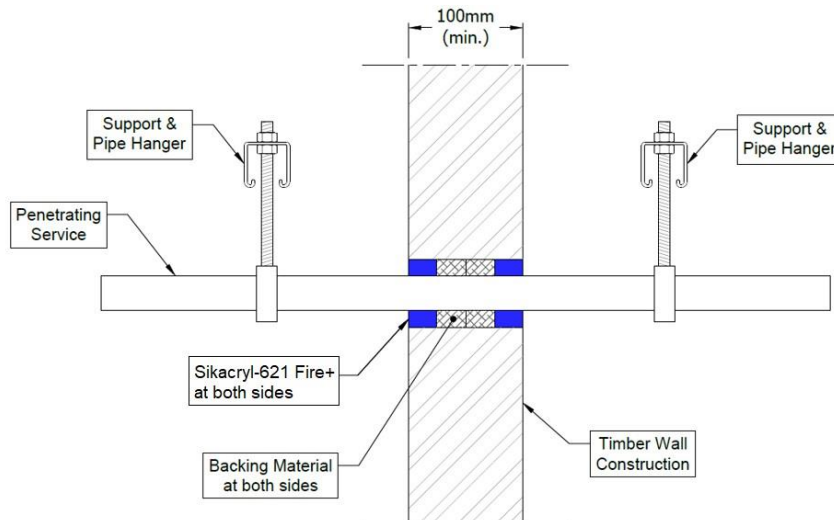
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.5. Timber wall constructions with wall thickness of minimum 100 mm

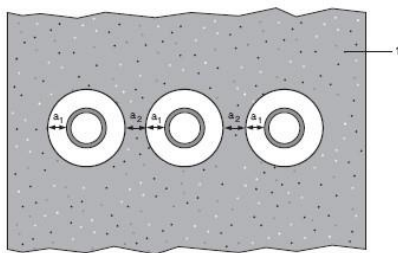
A.5.1 Double side penetration seal with cables

Penetration Seal: Cables fitted at any position within the aperture, sealed with Sikacryl-621 Fire+, minimum 25 mm deep to both sides of the wall and backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).

Construction details:



Configuration 1:



Key

1 Supporting construction

a1 Pipe / edge of seal separation (annular space)

a2 Separation between penetration seals

A.5.1.1

Services	Sealant depth	Backing	Maximum aperture	Classification
None (blank)	25 mm	Stone wool 25 mm deep min. 33kg/m ³	Ø 180 mm	EI 120
Cables up to 14 mm Ø, single or in bundles up to 100 mm Ø				EI 90
Cables up to 21 mm Ø, single or in bundles up to 100 mm Ø				E 90, EI 30
Cables up to 50 mm Ø, single or in bundles up to 100 mm Ø				E 90, EI 30
Telecom cables up to 14 mm Ø, single or in bundles up to 100 mm Ø				E 90, EI 60

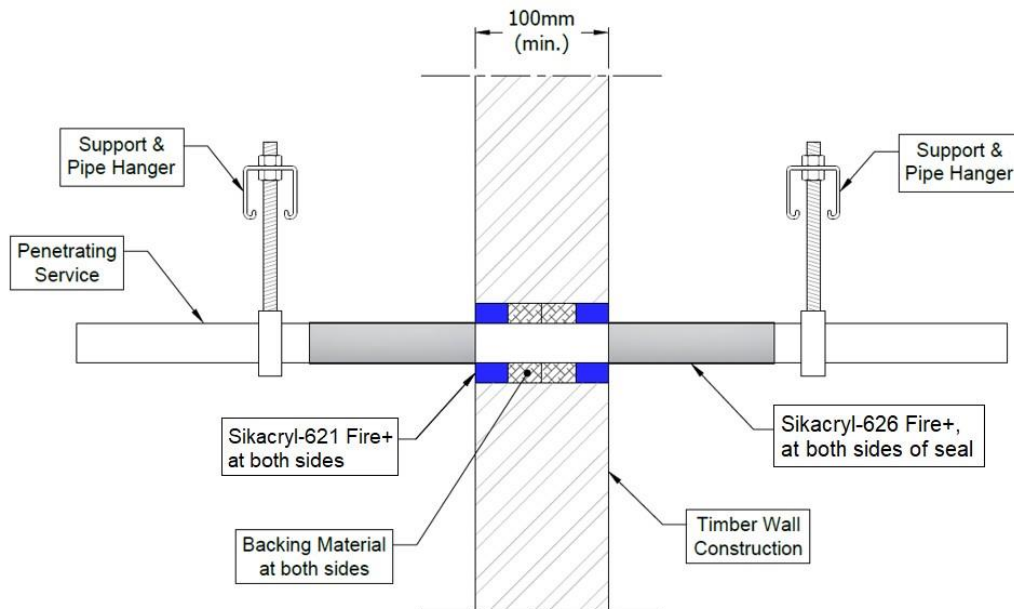
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

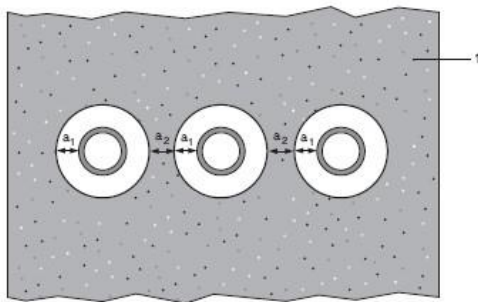
A.5.2 Double side penetration seal with cables and Sikacryl-626 Fire+

Penetration Seal: Cables fitted at any position within the aperture with Sikacryl-626 Fire+, sealed with Sikacryl-621 Fire+, minimum 25 mm deep to both sides of the wall and backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).

Construction details:



Configuration 1:



Key

- 1 Supporting construction
- a1 Pipe / edge of seal separation (annular space)
- a2 Separation between penetration seals

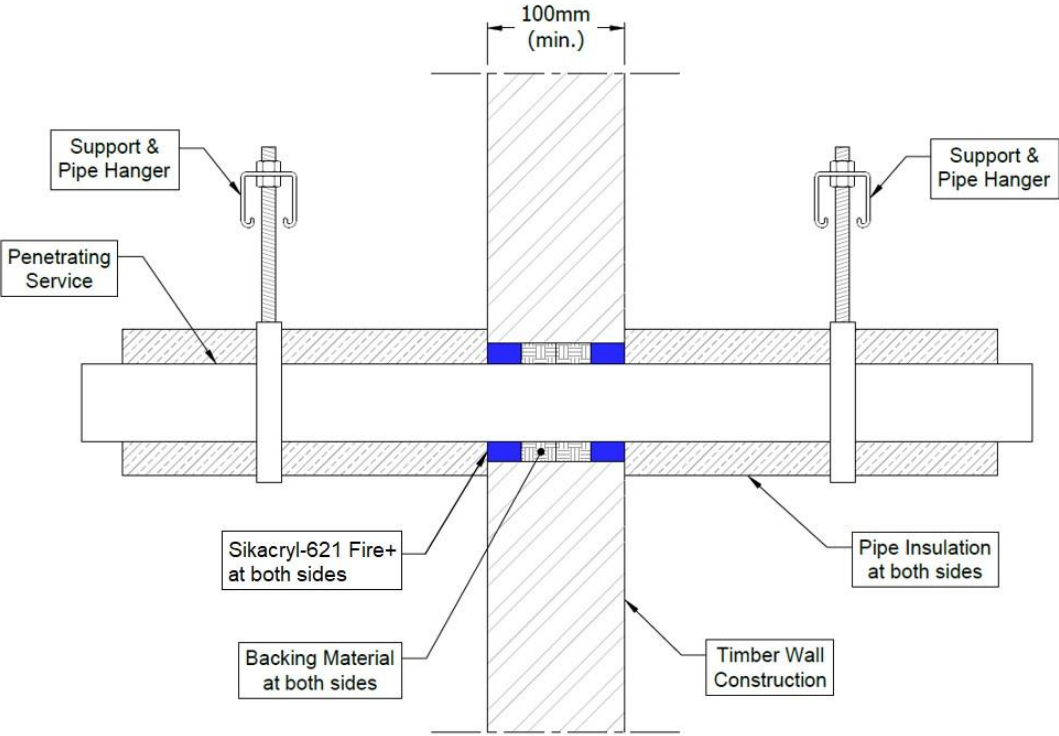
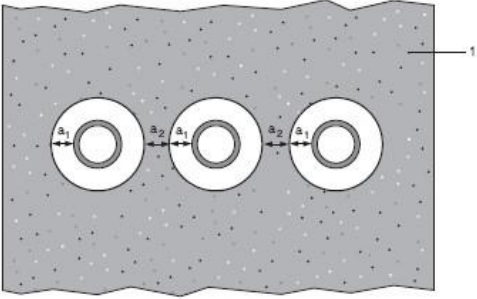
A.5.2.1

Services	Sealant depth	Backing	Maximum aperture	Insulation, minimum	Classification
None (blank)	25 mm	Stone wool 25 mm deep min. 33kg/m ³	Ø 180 mm	Sikacryl-626 Fire+, 260-micron DFT extending 150 mm from both sides of the seal	EI 120
Cables up to 21 mm Ø, single					EI 90
Cables up to 50 mm Ø, single or in bundles up to 100 mm Ø					E 90, EI 60

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.5.3 Double side penetration seal with metallic pipes

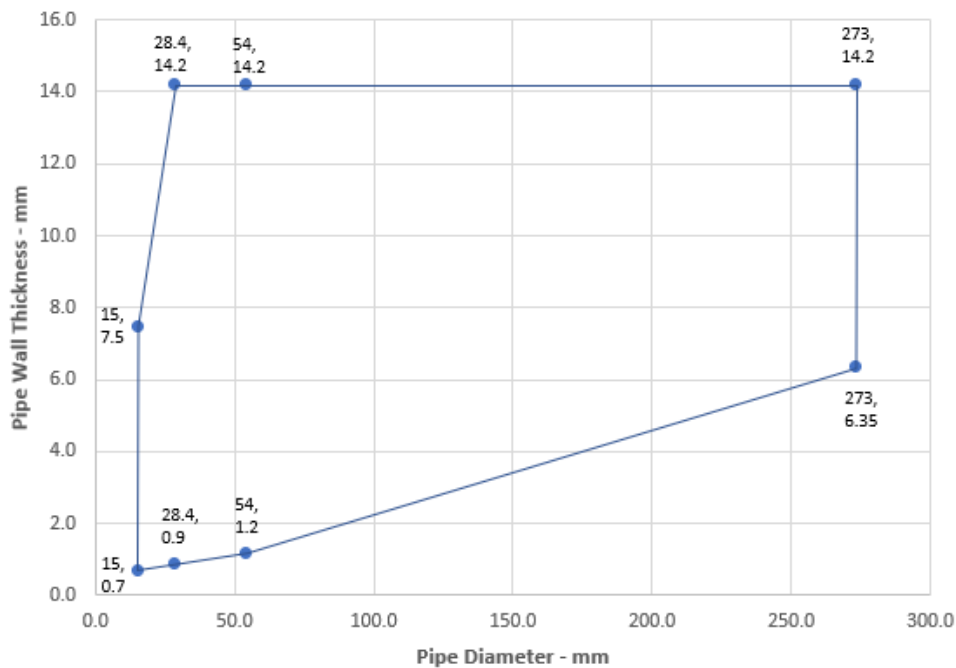
Penetration Seal: 500 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes and composite pipes (single) with glass wool or stone, mineral wool min. 75 kg/m³, fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
	Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals

A.5.3.1

Services	Maximum aperture	Sealant depth	Backing	Insulation, minimum	Classification
Mild or stainless steel pipe					
Maximum 273 mm diameter /6.35-14.2 mm wall*	Ø 293 mm	25 mm	Stone wool 25 mm deep min. 33kg/m ³	25 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 500 mm length from both sides of the seal	E 90 C/C, EI 60 C/C
Copper or steel pipe					
Maximum 54 mm diameter /1.2-14.2 mm wall*	Ø 180 mm	25 mm	Stone wool 25 mm deep min. 33kg/m ³	20 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 500 mm length from both sides of the seal	E 90 C/C, EI 60 C/C
Alupex Pipe					
Maximum 75 mm diameter/wall 2.25-4.6 mm wall*	Ø 180 mm	25 mm	Stone wool 25 mm deep min. 33kg/m ³	25 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 500 mm length from both sides of the seal	EI 90 C/C

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

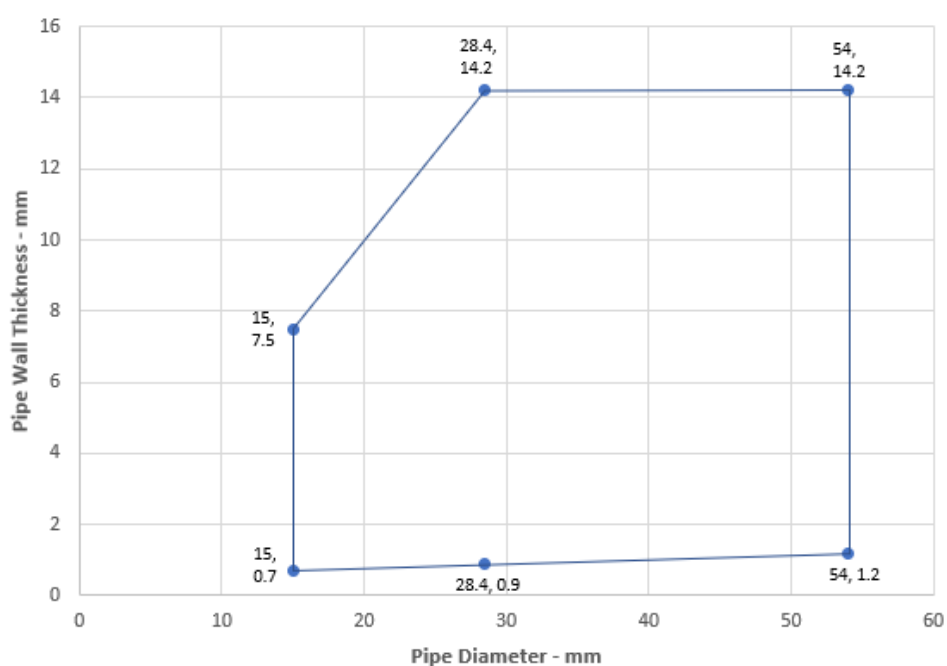
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



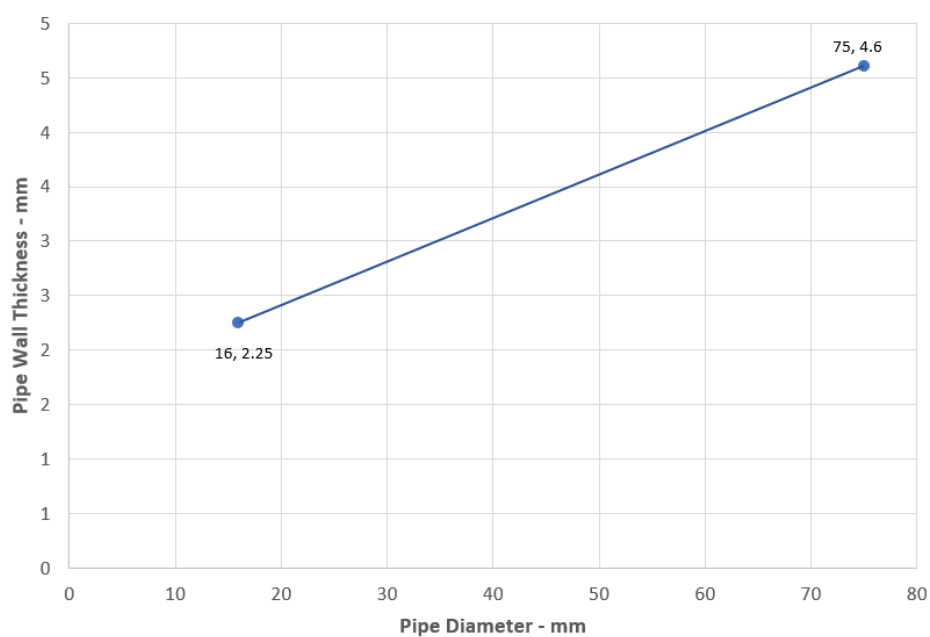
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



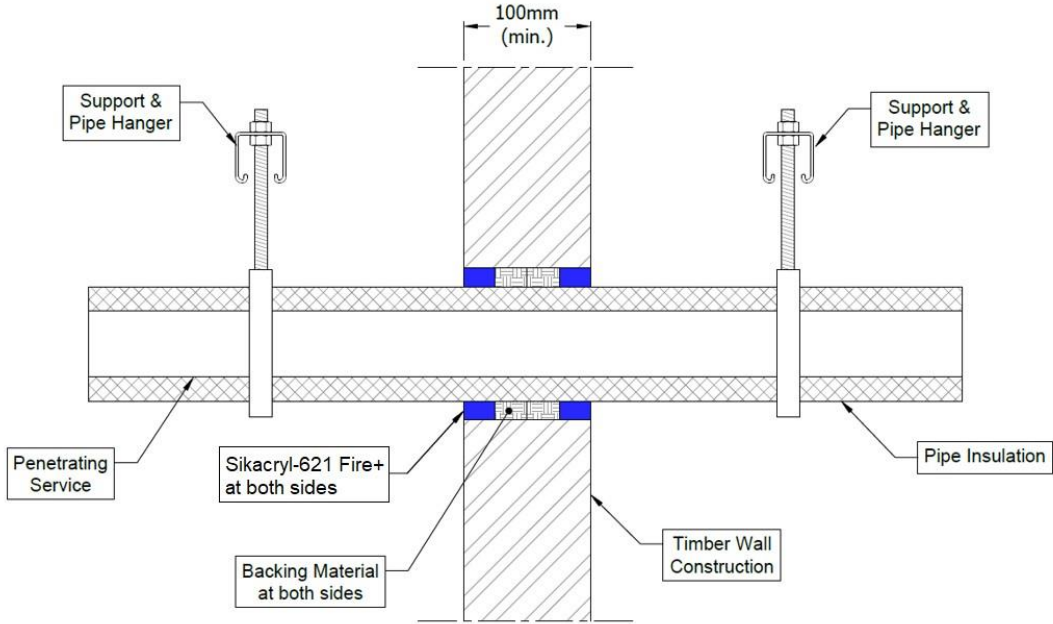
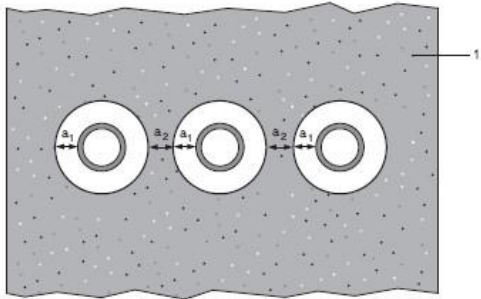
Alupex Pipes with Glass Wool or Mineral Wool Insulation - C/C



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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.5.4 Double side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, min. 10 mm seal width around service, backed with stone, mineral wool min. 33 kg/m³. Minimum annular space 10 mm and maximum 30 mm (a1), and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
	Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals

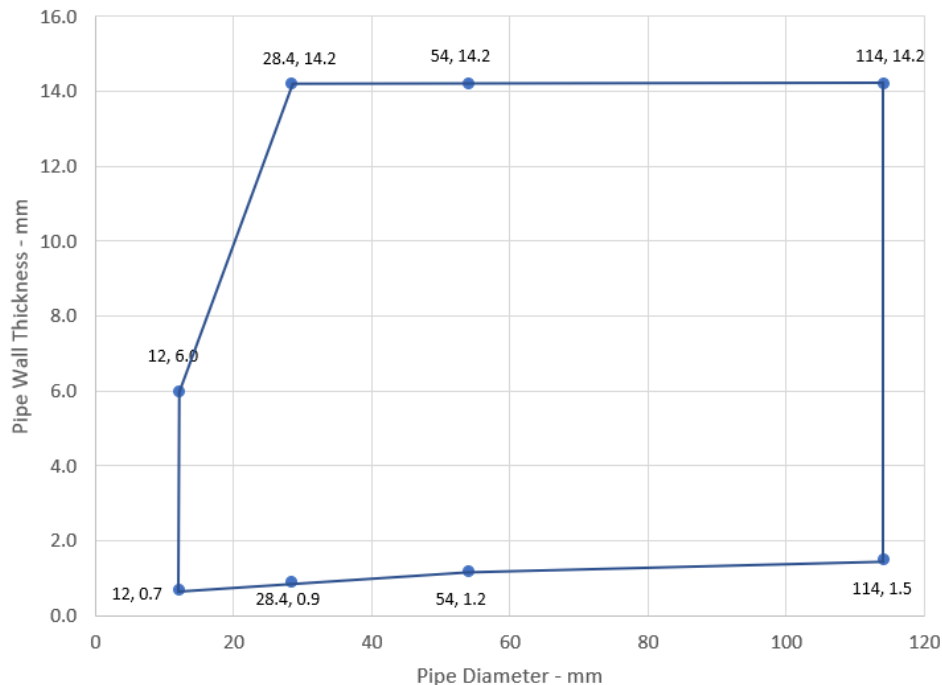
A.5.4.1

Services	Sealant depth	Backing	Insulation, minimum	Classification
Mild or stainless steel pipe				
Maximum 114 mm diameter /1.5-14.2 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	9-25 mm Elastomeric insulation minimum class D-s3, d0	EI 30 C/U
Copper or steel pipe				
Maximum 12 mm diameter /0.7-6 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	9 mm Elastomeric insulation minimum class D-s3, d0	E 90 C/C, EI 60 C/C
Maximum 54 mm diameter /1.2-14.2 mm wall*				E 60 C/C, EI 30 C/C
Maximum 54 mm diameter /1.2-14.2 mm wall*			10-25 mm Elastomeric insulation minimum class D-s3, d0	E 30 C/C, EI 20 C/C
Alupex Pipe				
Maximum 16 mm diameter/wall 2.25 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	9 mm Elastomeric insulation minimum class D-s3, d0	EI 90 C/C
Maximum 75 mm diameter/wall 4.6 mm wall*				E 60 C/C, EI 45 C/C
Maximum 75 mm diameter/wall 4.6 mm wall*			10-25 mm Elastomeric insulation minimum class D-s3, d0	EI 45 C/C

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

*

Steel Pipes with Elastomeric Insulation - C/C

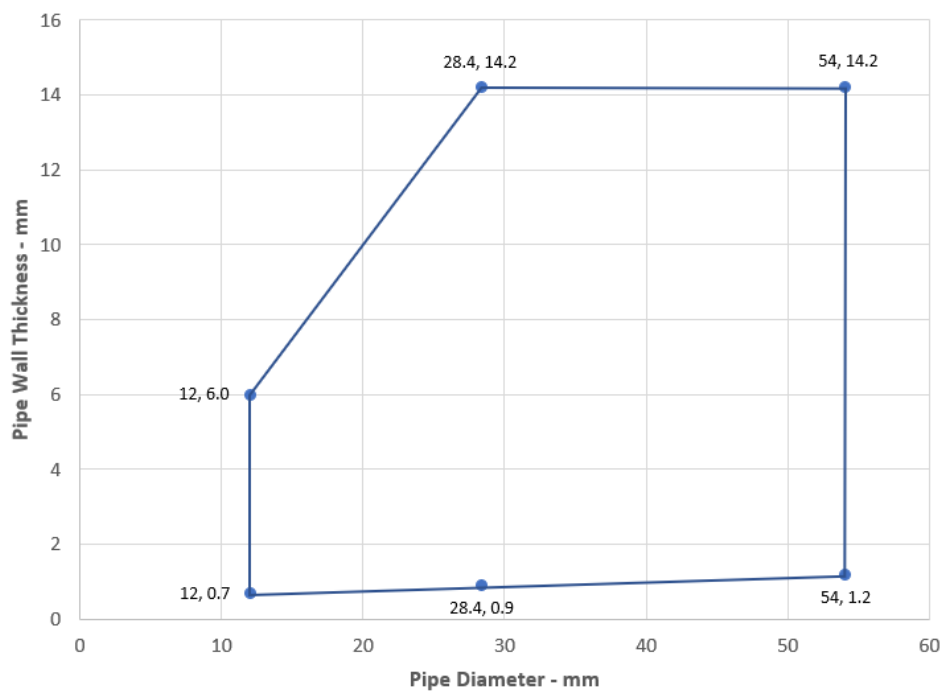


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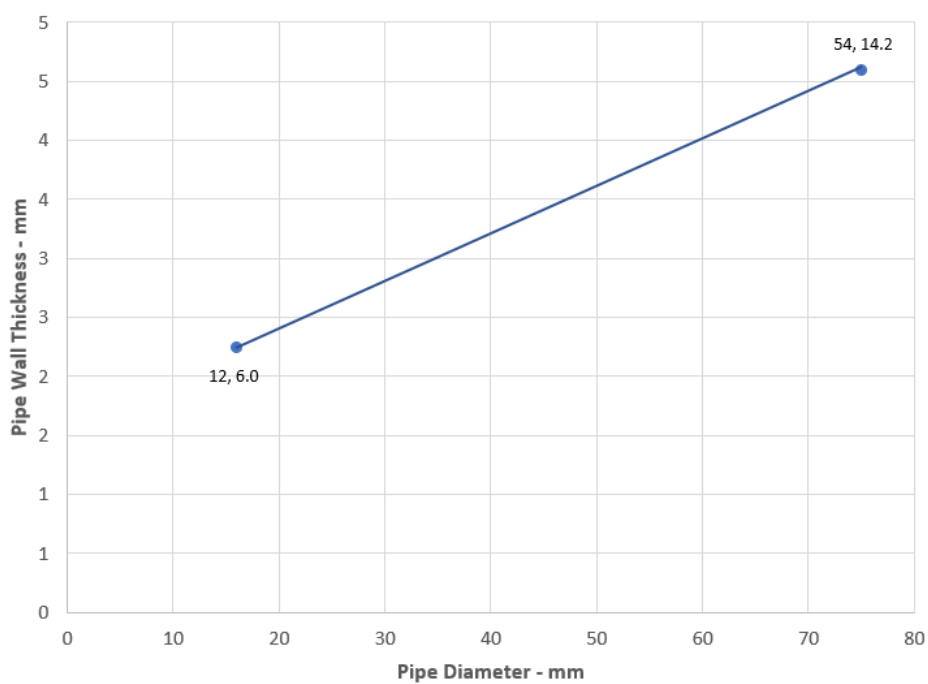
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Elastomeric Insulation - C/C



Alupex Pipes with Elastomeric Insulation - C/C



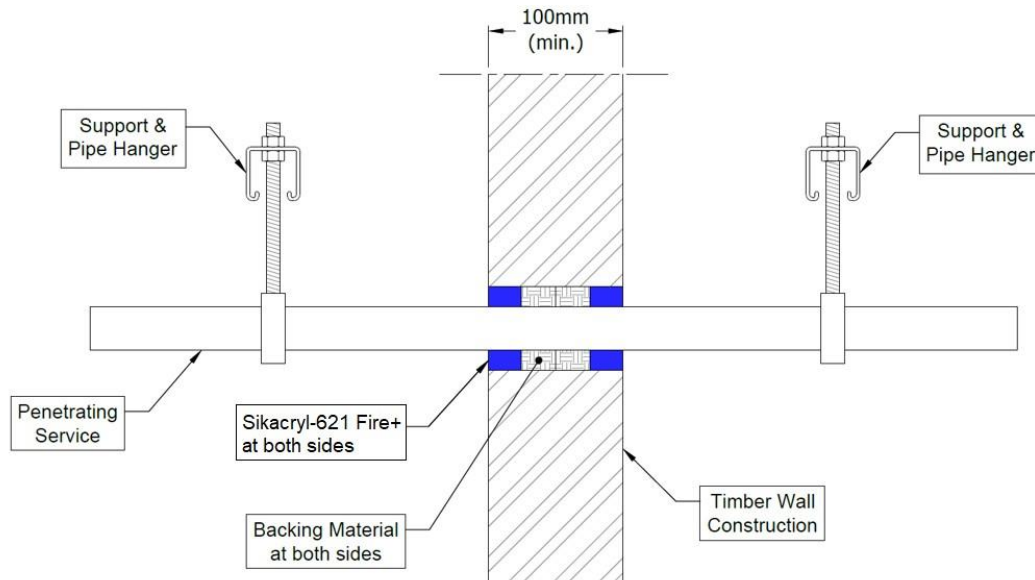
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

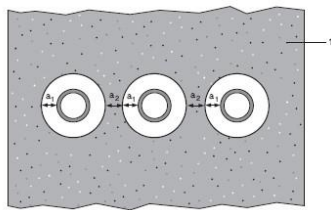
A.5.5 Double side penetration seal with plastic pipes and composite pipes

Penetration Seal: Plastic and composite pipes (single) fitted at any position within the aperture, with Sikacryl- 621 Fire+ to both sides of the wall, backed with stone, mineral wool min. 33 kg/m³. Minimum annular space 10 mm and maximum 30 mm (a1) and minimum separation between penetration seals 0 mm (a2).

Construction details:



Configuration 1:



Key

1 Supporting construction

a1 Pipe / edge of seal separation (annular space)

a2 Separation between penetration seals

A.5.5.1

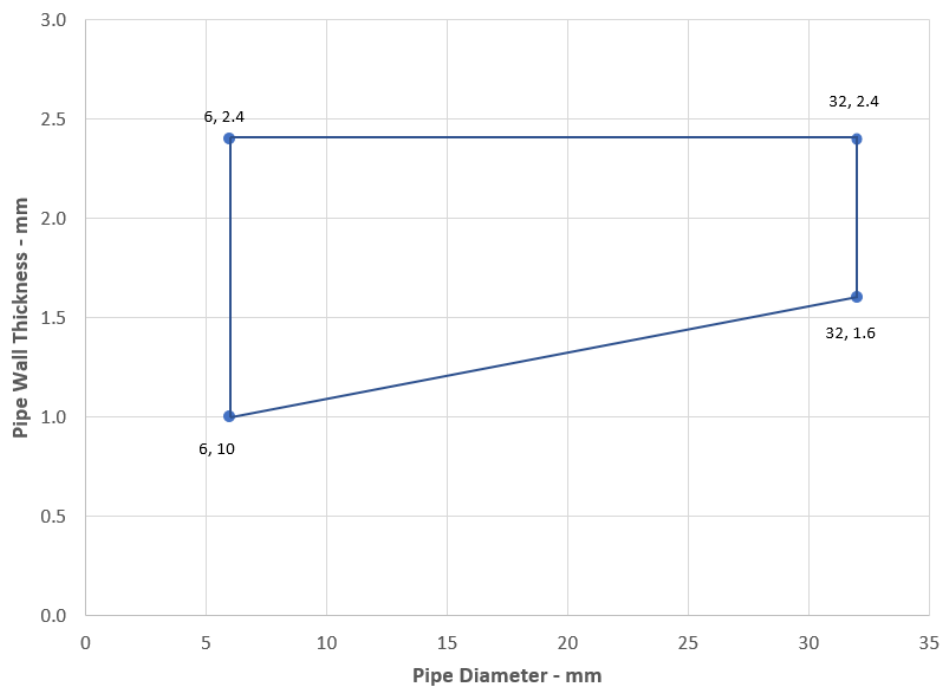
Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Maximum 32 mm diameter/1.0-2.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 U/C
PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1			
Maximum 32 mm diameter/2.0-3.0 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 U/C
PP pipe according to EN 1451-1 or DIN 8077/8078			
Maximum 32 mm diameter/1.8-4.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 U/C
PEX pipe in pipe system			
25 mm diameter outer /15 mm diameter x 2.5 mm wall inner	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 C/C

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

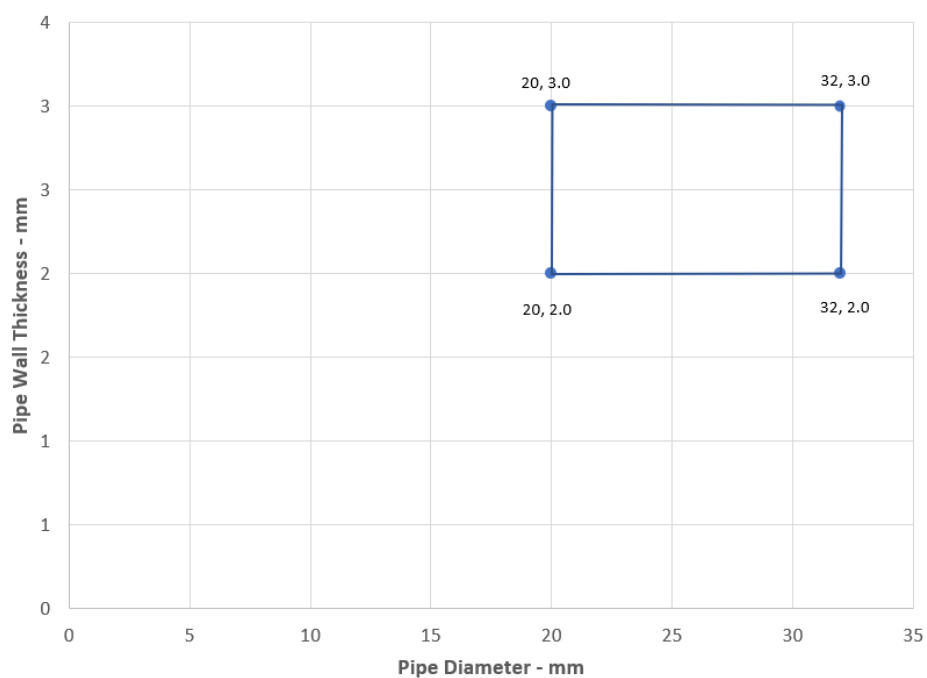
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PVC-U Pipes EI 90 - U/C



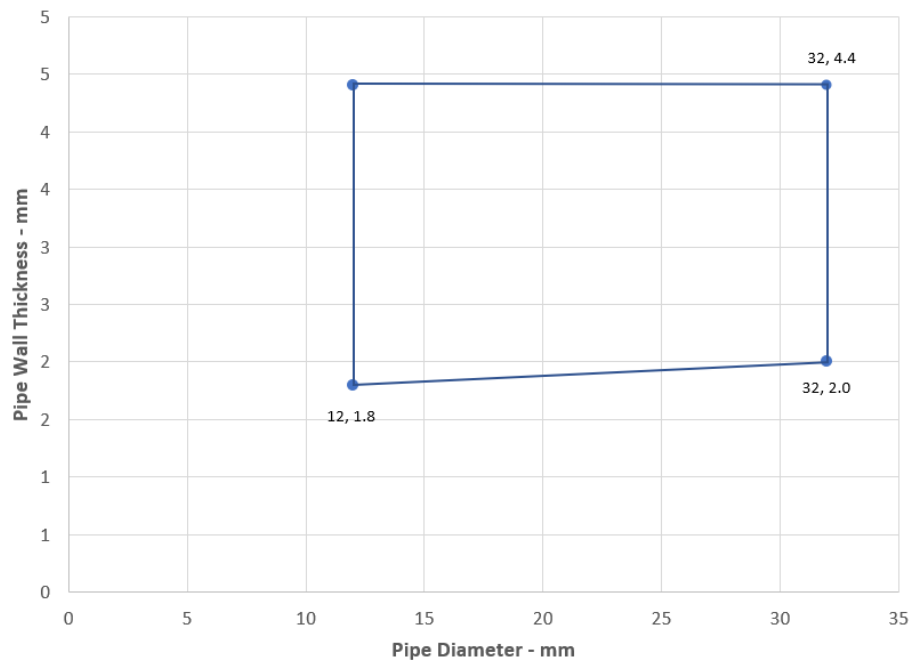
PE Pipes EI 90 - U/C



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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PP Pipes EI 90 - U/C



Declaration of Performance

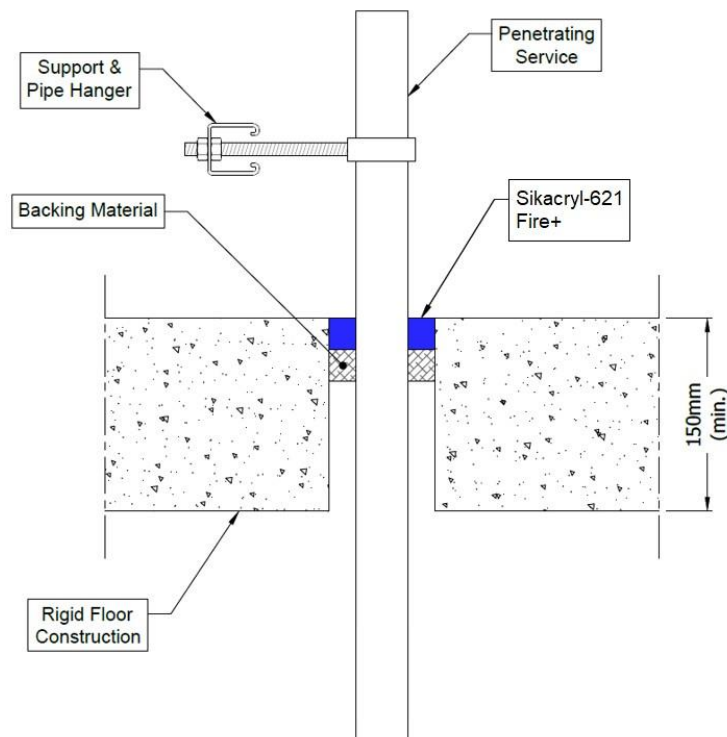
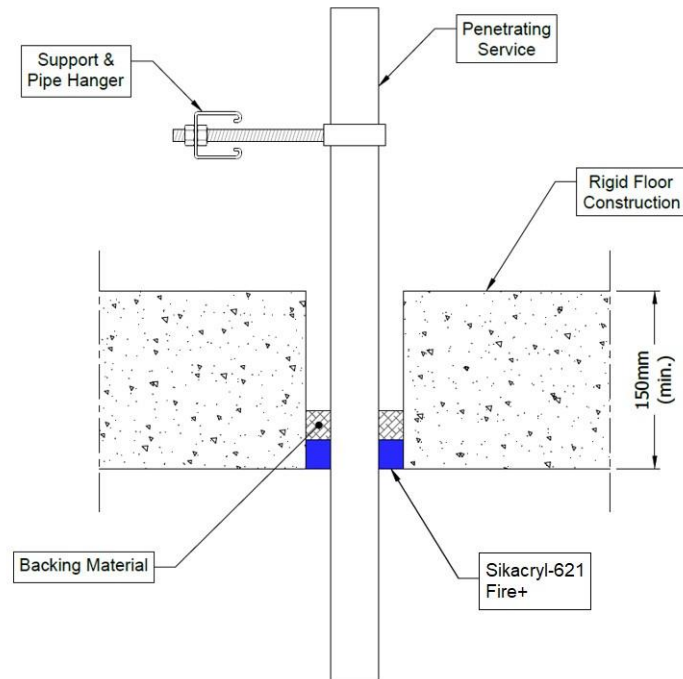
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74951760
2025.01. , ver. 1
1549

A.6 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

A.6.1 Single side penetration seal with cables

Penetration Seal: Cables (single) fitted at any position within the aperture, min. 10 mm from the edges, with Sikacryl-621 Fire+ to either side of the floor (or at any position in between), backed with AES Fibre $\geq 128\text{kg/m}^3$.

Construction details:



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.1.1

Services	Sealant depth	Backing (minimum)	Aperture (maximum)	Classification
Single electrical cables up to 21 mm Ø	25 mm	AES Fibre ≥ 128kg/m ³ 25 mm deep	82 mm Ø or 100 x 1000 mm	E 120, EI 60

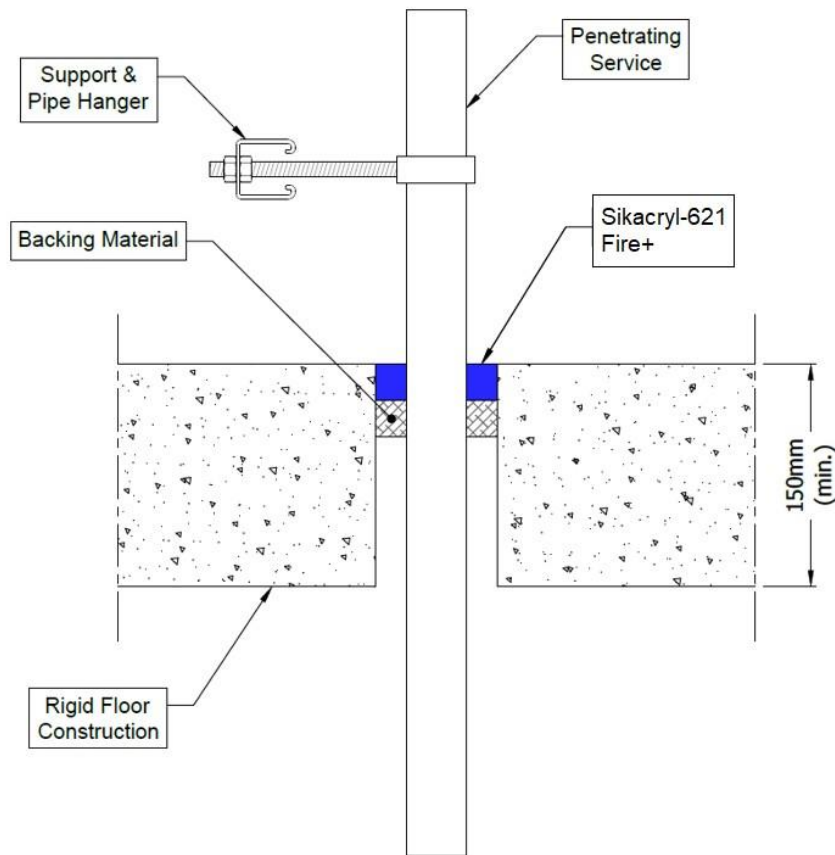
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.2 Single side penetration seal with cables

Penetration Seal: Cables fitted with Sikacryl-621 Fire+ to the top side of the floor, backed with stone wool insulation minimum 35kg/m³ or AES Fibre ≥ 128kg/m³. Maximum seal size of 300 x 300 mm and minimum separation between cables and the edge of the seal of 10 mm.

Construction details:



A.6.2.1

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Blank seals	15 mm	20 mm Stone wool 35 kg/m³	None	E 90, EI 60
	25 mm	25 mm Stone wool 35 kg/m³		EI 120
48 mm AES Fibre ≥ 128kg/m³		EI 240		
		E 120, EI 90		
Electric cables up to 21 mm diameter, single.	25 mm	48 mm AES Fibre ≥ 128kg/m³	None	EI 240
23-27 mm diameter, 1 mm × 185 mm² core, PVC sheath and insulation electrical cable. single				EI 240

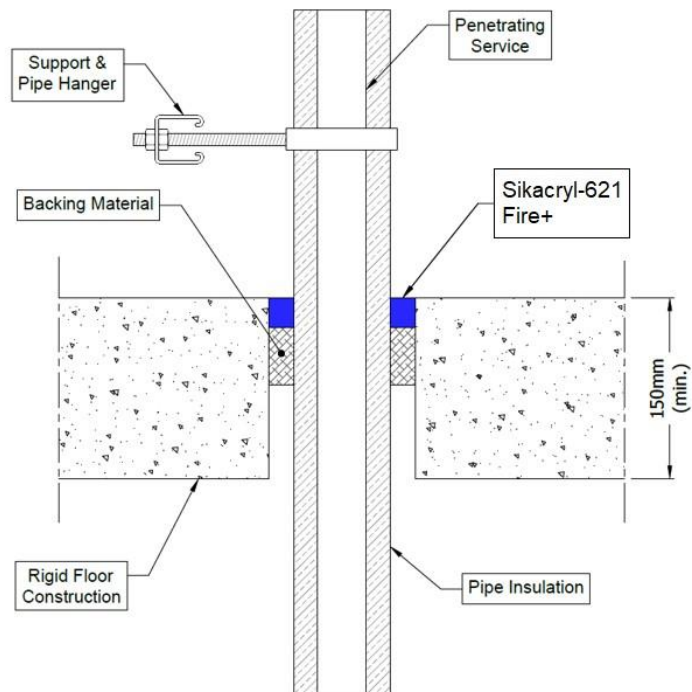
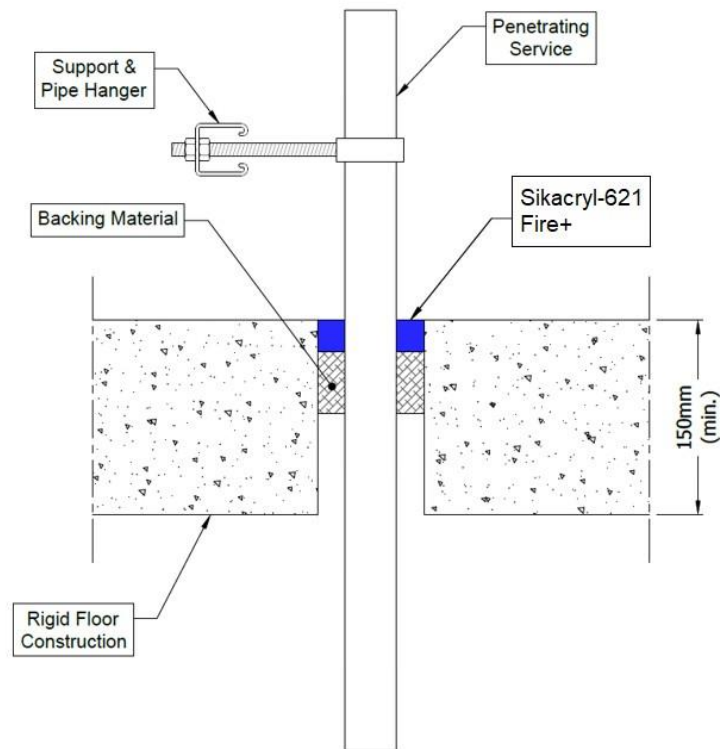
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74951760
2025.01. , ver. 1
1549

A.6.3 Single side penetration seal with pipes

Penetration Seal: Pipes fitted at any position within the aperture, with Sikacryl-621 Fire+ to the top face of the floor, backed with 48 mm stone wool minimum 33kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2), maximum seal size 300 x 300 mm / 300 mm diameter.

Construction details:



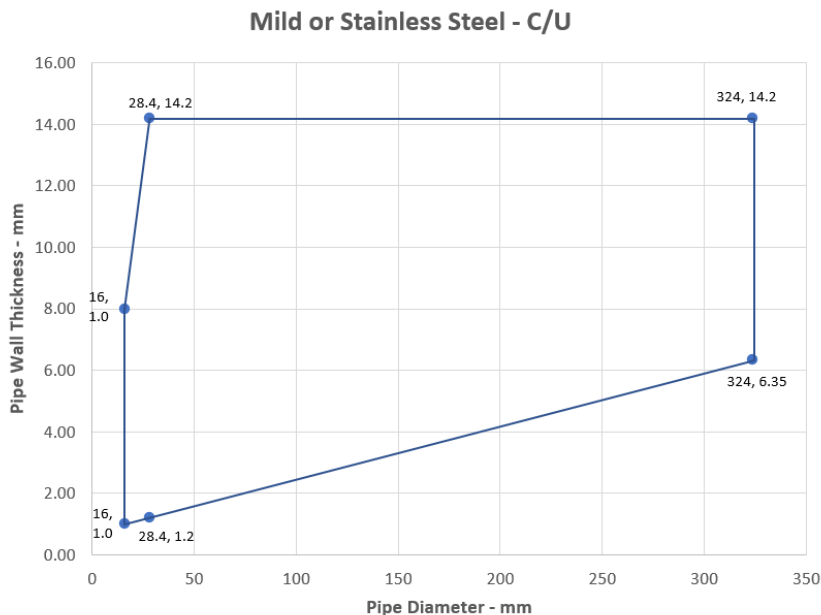
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.3.1

Services	Sealant depth	Backing	Classification
Mild or stainless steel pipe			
4 -16 mm diameter /1.0-8.0 mm wall	25 mm	48 mm stone wool	EI 120 C/U
17 -324 mm diameter /1.0-14.2 mm wall*			E 120 C/U
Mild or stainless steel pipe with minimum 75 kg/m ³ density stone or glass wool insulation Continuous Sustained (CS)			
12-273 mm diameter/0.7-14.2 mm wall, 30 mm insulation*	25 mm	48 mm stone wool	E 120 C/C, EI 90 C/C
Copper or steel pipe			
6 mm diameter /0.7-3.0 mm wall	25 mm	48 mm stone wool	EI 120 C/C
6 -15 mm diameter /0.7-7.5 mm wall*			E 120 C/C, EI 60 C/C
16 - 54 mm diameter /0.7-14.2mm wall*			E 120 C/C
Copper or steel pipe with minimum 80 kg/m ³ density stone wool insulation Continuous Sustained (CS)			
12 mm diameter/0.9-6 mm wall, 20-80 mm insulation	25 mm	48 mm stone wool	EI 240 C/C
13-54 mm diameter/0.9-14.2 mm wall, 20-80 mm insulation*			E 240 C/C, EI 180 C/C
Copper or steel pipe with minimum 75 kg/m ³ density glass wool insulation Continuous Sustained (CS)			
12 mm diameter/0.7-6.0 mm wall, 20 mm insulation	25 mm	48 mm stone wool	EI 120 C/C
Alupex Pipe			
16 -20 mm diameter/2.0 mm wall	25 mm	48 mm stone wool	EI 120 C/C
21-75 mm diameter/2.0-4.6 mm wall			E 120 C/C, EI 90 C/C
16-75 mm diameter/2.25-4.6 mm wall with 20-50 mm thick glass wool or stone, mineral wool min. 75 kg/m ³ insulation Continuous Sustained (CS)			E 180 C/C, EI 120 C/C
16-75 mm diameter/2.25-4.7 mm wall with 60 mm thick glass wool or stone, mineral wool min. 75 kg/m ³ insulation Continuous Sustained (CS)*			E 120 C/C, EI 90 C/C

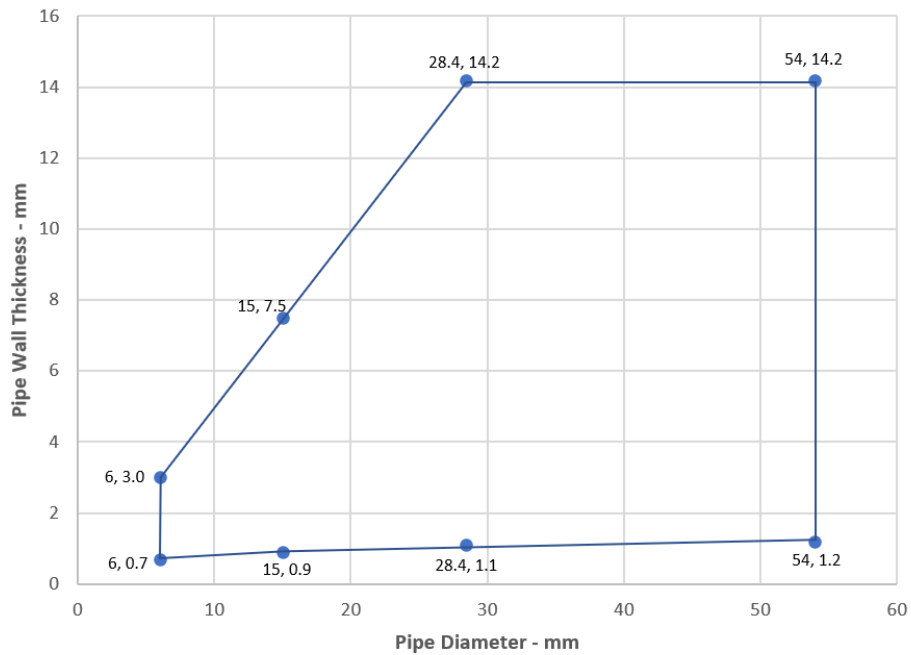
*See below graphs for interpolated pipe sizes



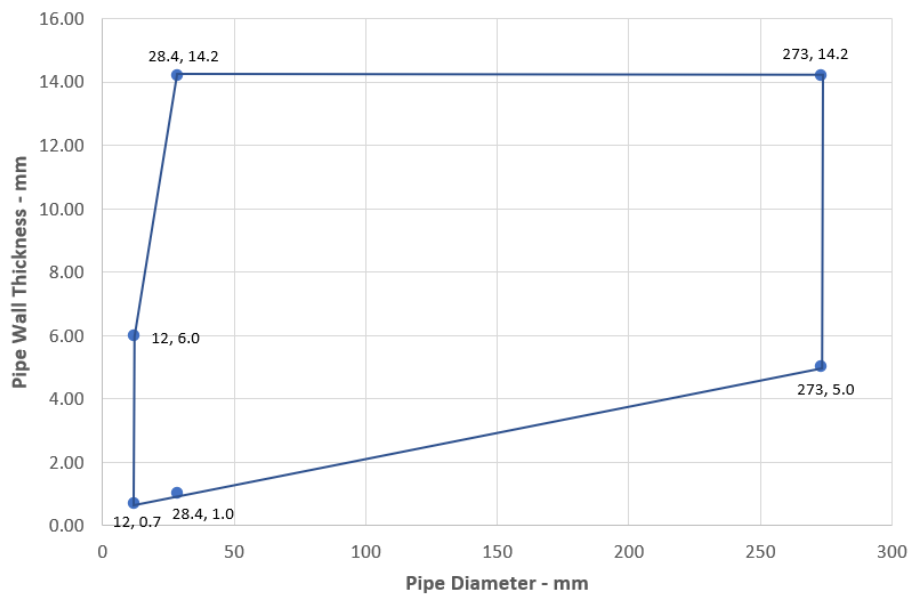
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Stainless Steel Pipes - C/C



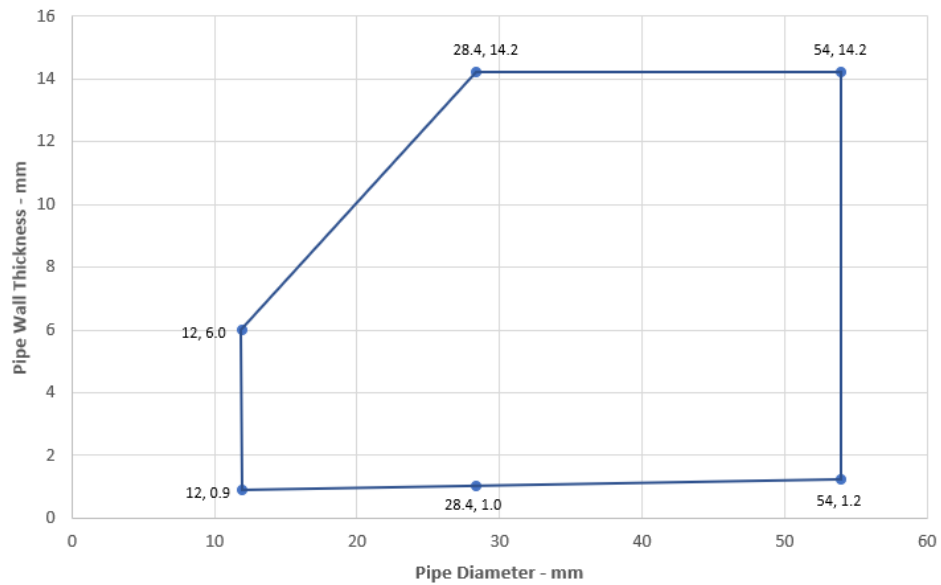
Mild or Stainless Steel Pipes with Stone or Glass Wool Insulation - C/C



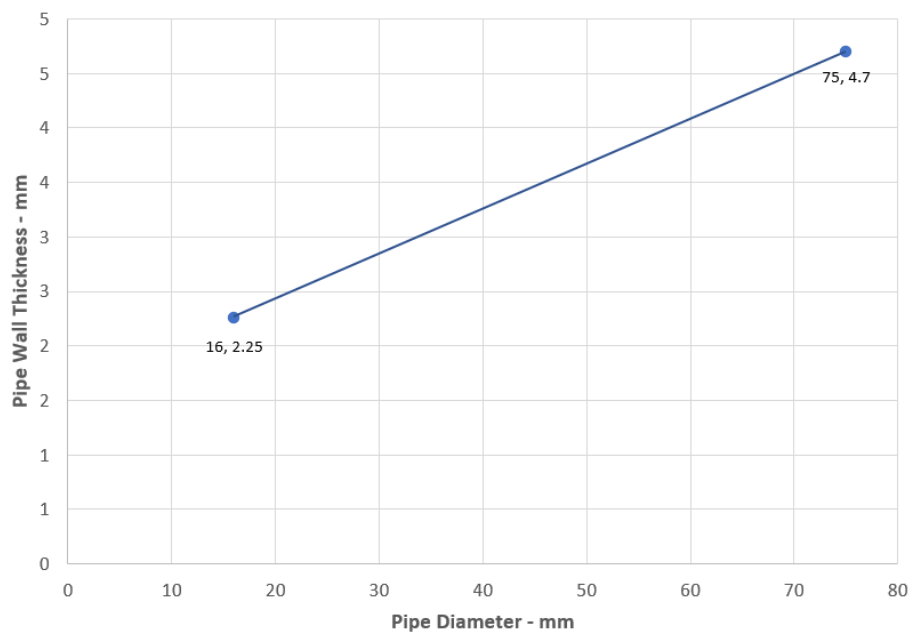
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

**Copper or Steel Pipes with 20-80 mm stone wool Insulation CS
E 240 C/C, EI 180 C**



Alupex Pipes with Stone or Glass Wool Insulation - C/C



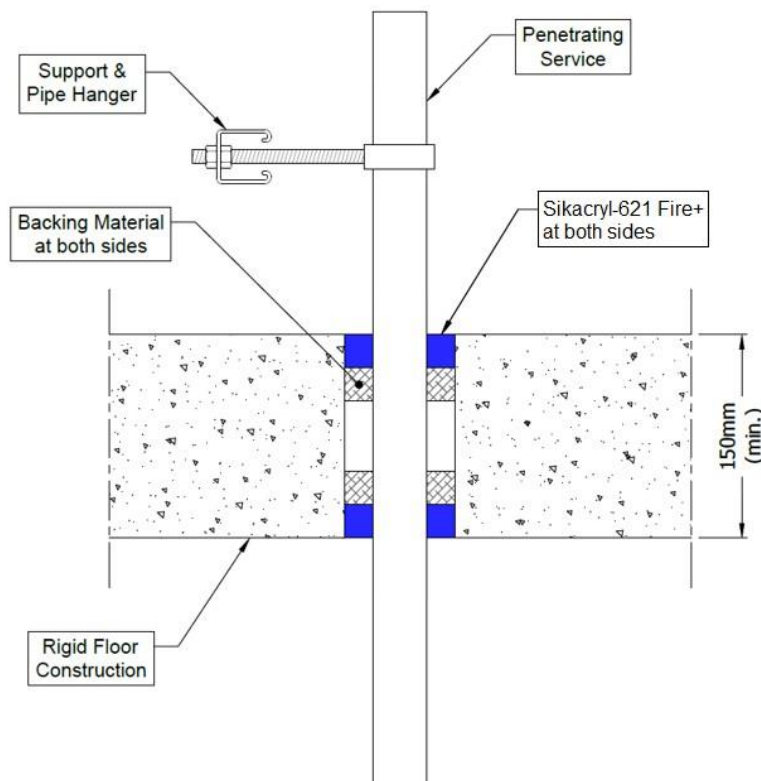
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.4 Double side penetration seal with pipes

Penetration Seal: Pipes fitted at any position within the aperture, with Sikacryl-621 Fire+ to the both faces of the floor, backed with 25 mm stone wool minimum 33kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2), maximum seal size 300 x 300 mm / 300 mm diameter.

Construction details:



A.6.4.1

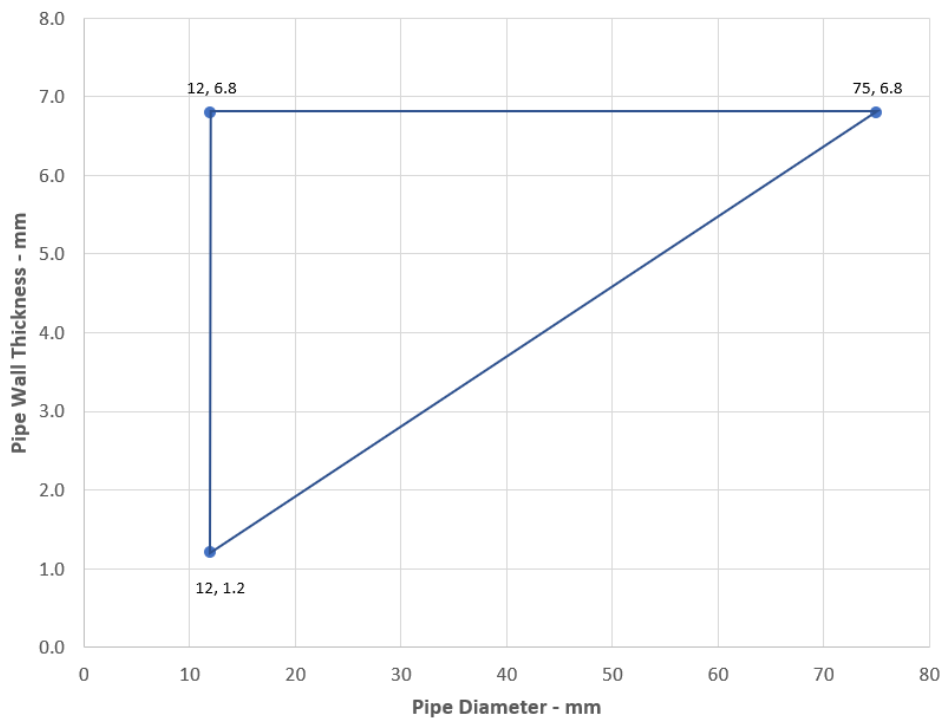
Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Up to 50 mm Ø/1.6-3.7 mm wall	25 mm	25 mm Stone wool	EI 240 U/C
Up to 40 mm Ø/1.6-3.7 mm wall, with bundle of cables up to 21 mm diameter			
PP pipe according to EN 1451-1 or DIN 8077/8078			
12 mm Ø/1.2 mm wall	25 mm	25 mm Stone wool	EI 240 U/C
13-40 mm Ø/1.2-3.7 mm wall			EI 180 U/C
41-75 mm Ø/1.2-6.8 mm wall*			EI 90 U/C
Up to 40 mm Ø/1.2-3.7 mm wall, with bundle of cables up to 21 mm diameter			EI 180 U/C
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			
20-40 mm Ø/2.0-3.7 mm wall*	25 mm	25 mm Stone wool	EI 240 U/C
Up to 40 mm Ø/2.0-3.7 mm wall, with bundle of cables up to 21 mm diameter			EI 180 U/C

*See below graphs for interpolated pipe sizes

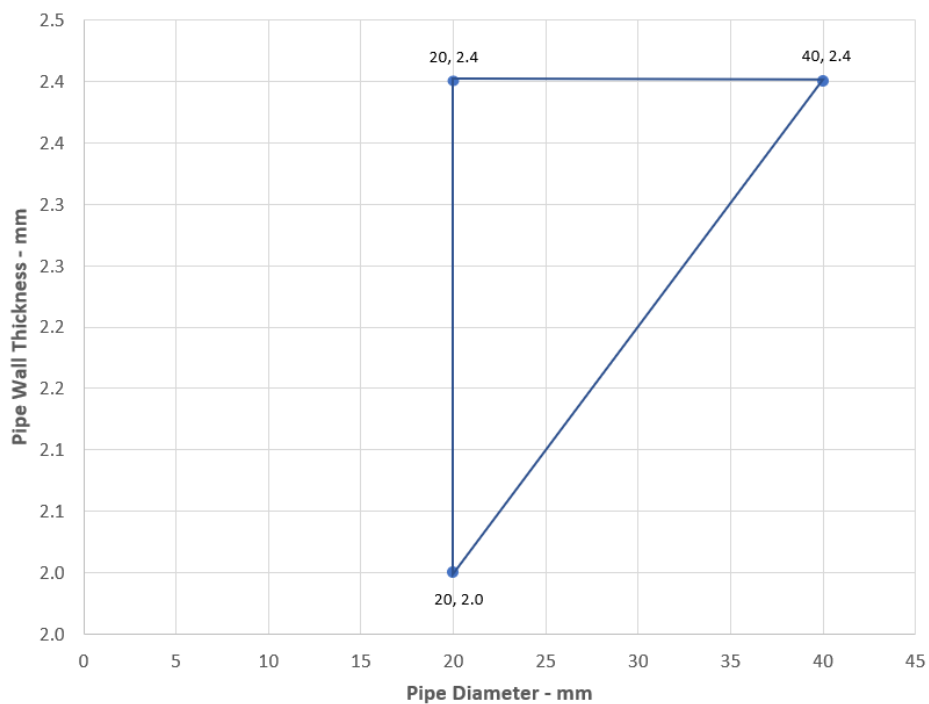
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PP Pipes - EI 190 U/C



PE Pipes - U/C



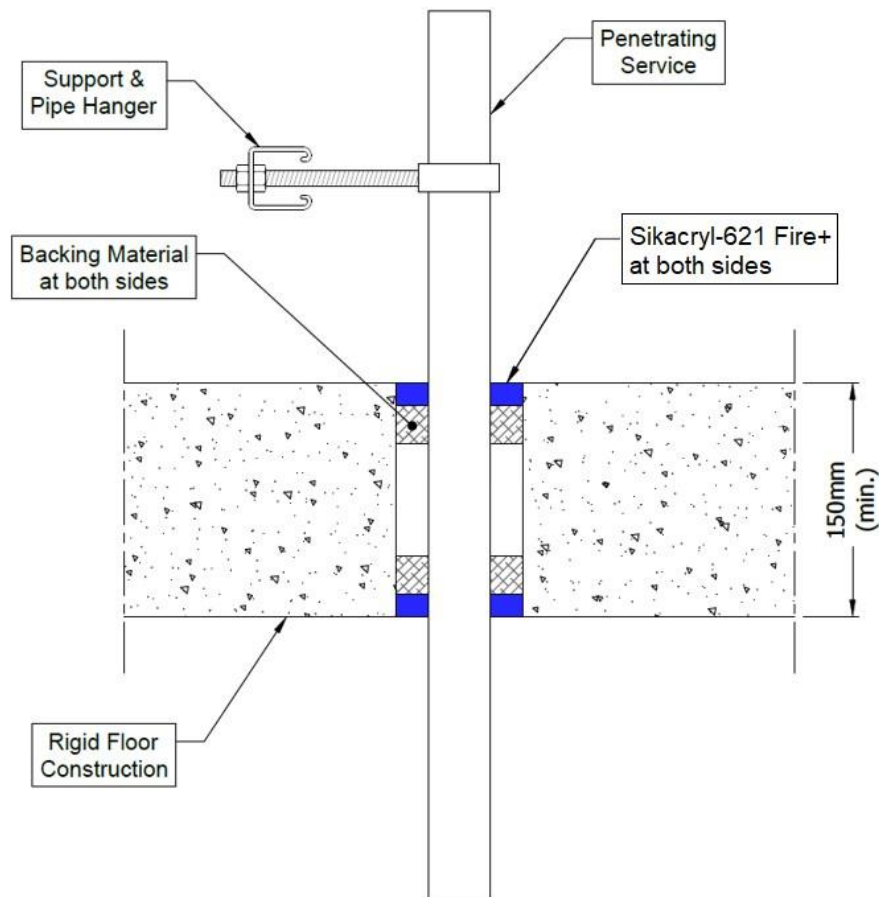
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.5 Double side penetration seal with cables

Penetration Seal: Cables fitted circular apertures or min. 7 mm from the edges of rectilinear apertures, with Sikacryl-621 Fire+ to both sides of the floor, backed with stone wool insulation minimum 35kg/m³.

Construction details:



A.6.5.1

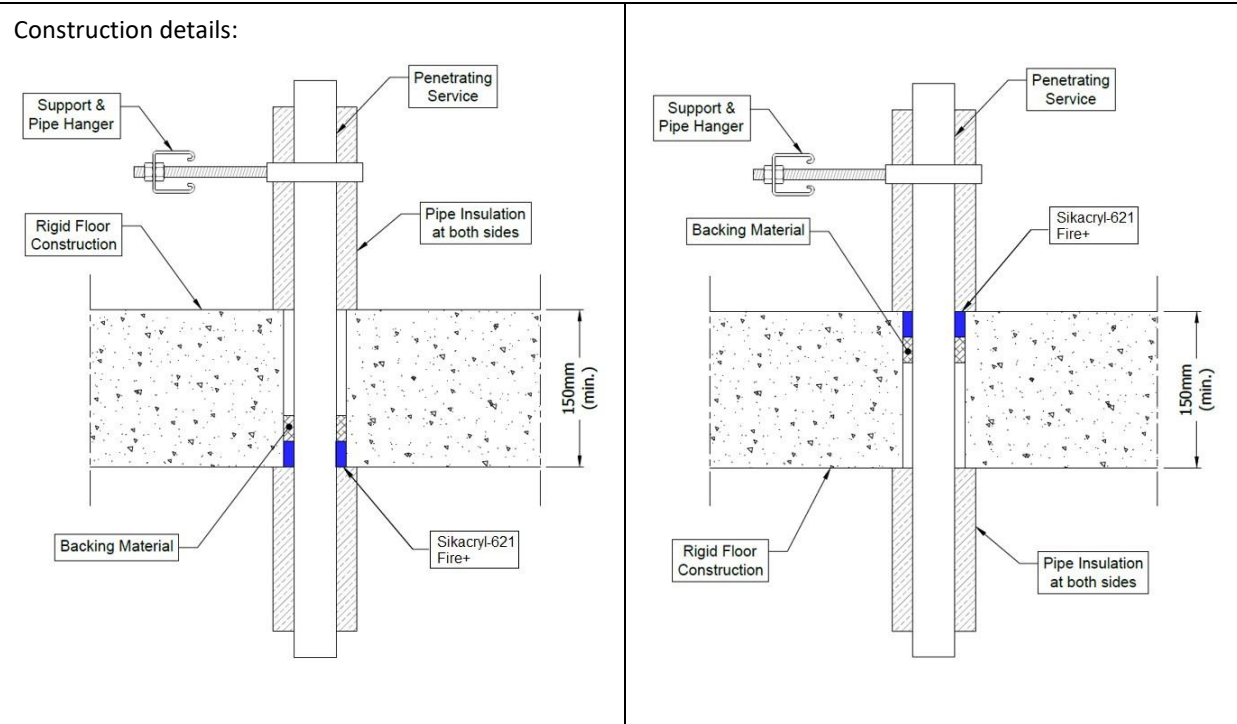
Services	Sealant depth	Backing	Maximum Aperture	Classification
Blank seals	15 mm	25 mm Stone wool 35 kg/m ³	300 x 300 mm	EI 240
Electric cables up to 21 mm diameter, single or in a bundle.				EI 120
Electric cables 22-50 mm diameter, single or in a bundle.				E 120, EI 90
Electric cables 51-80 mm diameter, single or in a bundle.				E 120, EI 60

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.6 Single side penetration seal with metallic pipes

Penetration Seal: 1000 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes (single) fitted at any position within the aperture, with 15 or 25 mm deep Sikacryl-621 Fire+ to either side of the floor (or at any position between), backed with minimum 40 kg/m³ stone wool insulation or AES Fibre ≥ 128kg/m³.



A.6.6.1

Services	Max. seal size	Insulation (min)	Sealant depth	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	10 mm width around pipe	20 mm Stone wool insulation 80 kg/m³	15 mm	E 240 C/U, EI 180 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall				EI 240 C/U
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	Up to 100 x 1000 mm		25 mm	EI 120 C/U
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	300 x 300 mm	20 mm Stone wool insulation 80 kg/m³	15 mm	E 90 C/U, EI 60 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall				
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall			25 mm	EI 120 C/U

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Max. Seal Size	Insulation (min)	Sealant Depth	Classification
Mild or stainless steel pipe				
40 mm diameter/1-14.2 mm wall	10 mm width around pipe	20 mm Stone wool insulation 80 kg/m³	15 mm	EI 240 C/U
40 mm diameter/1-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m³		E 240 C/U, 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/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*				
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				
40 mm diameter/1-14.2 mm wall*	Up to 100 x 1000 mm	20 mm Stone wool insulation 80 kg/m³	25 mm	E120 C/U, EI 90 C/U
50 mm diameter/1.2-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m³		
60 mm diameter/1.4-14.2 mm wall*				
75 mm diameter/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*				
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

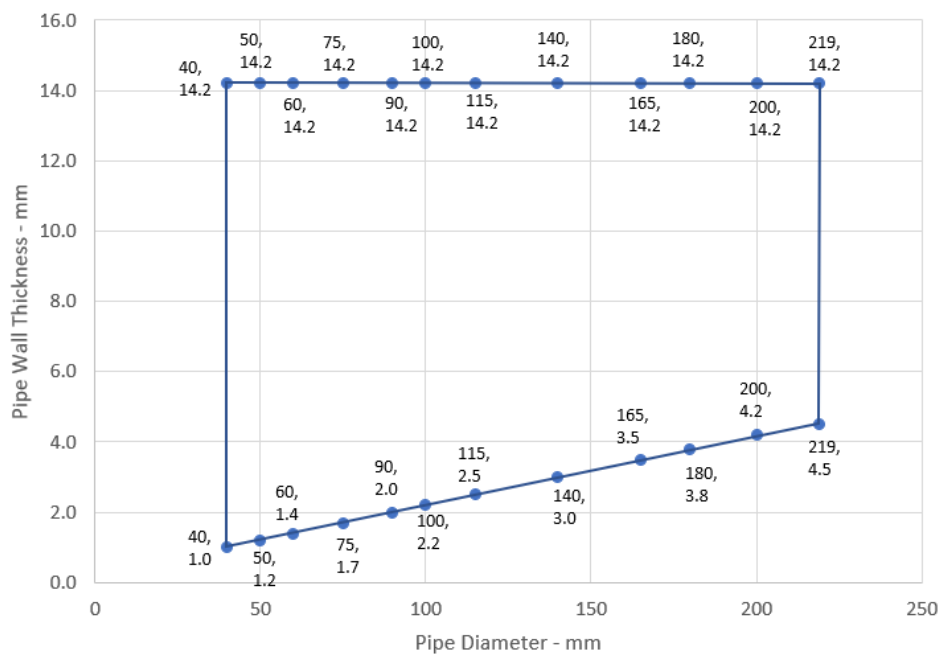
Services	Max. Seal Size	Insulation (minimum)	Sealant Depth	Classification
Mild or stainless steel pipe				
40 mm diameter/1-14.2 mm wall	300 x 300 mm	20 mm Stone wool insulation 80 kg/m³	15 mm	E 90 C/U, EI 60 C/U
40 mm diameter/1-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m³		
50 mm diameter/1.2-14.2 mm wall*				
60 mm diameter/1.4-14.2 mm wall*				
75 mm diameter/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*				
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				
40 mm diameter/1-14.2 mm wall*		20 mm Stone wool insulation 80 kg/m³	25 mm	E120 C/U, EI 90 C/U
50 mm diameter/1.2-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m³		
60 mm diameter/1.4-14.2 mm wall*				
75 mm diameter/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*				
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Stone Wool Insulation - C/U



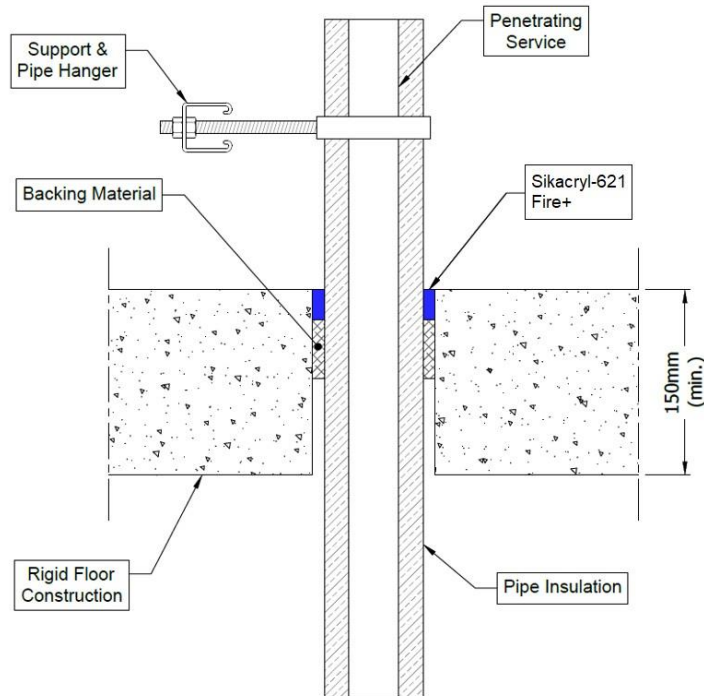
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.7 Single side penetration seal with metallic pipes

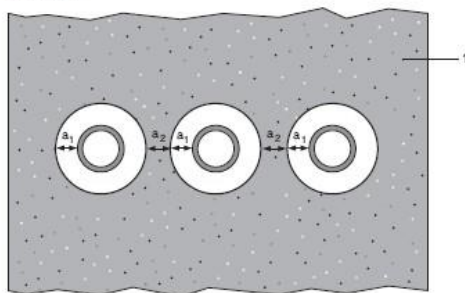
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to the top of the floor, backed with 48 mm deep AES Fibre $\geq 128\text{kg/m}^3$ insulation. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 504 mm $\varnothing$

Construction details:



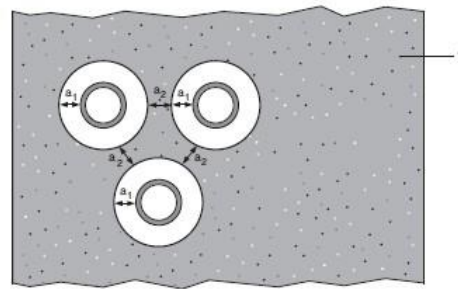
Configuration 1:

Option 1



Configuration 2:

Option 2



Key

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

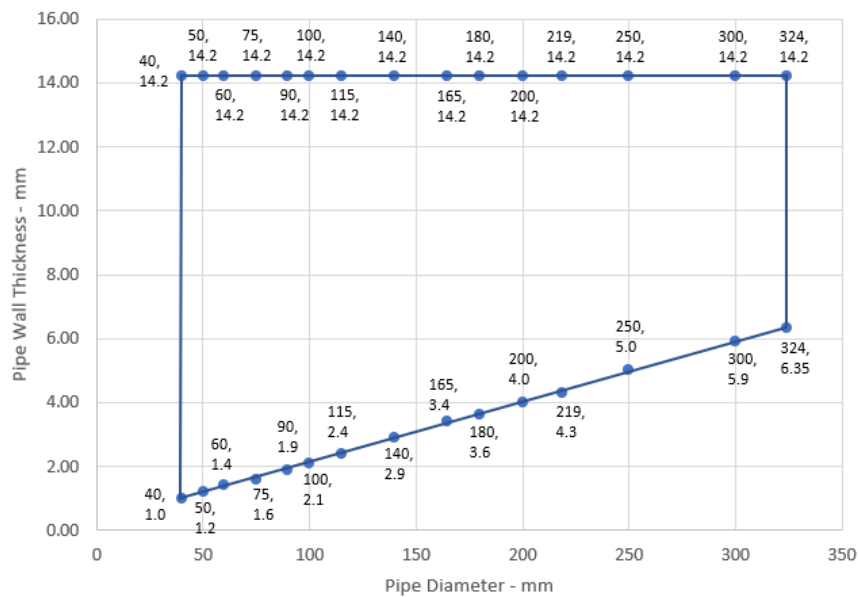
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.7.1 Single side penetration seal with pipes

Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	
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*		
PEX pipe in pipe system		
15 mm diameter x 2.5 mm wall inner /25mm diameter outer	None	EI 90 C/C

Steel Pipes with Mineral Wool Insulation - C/U



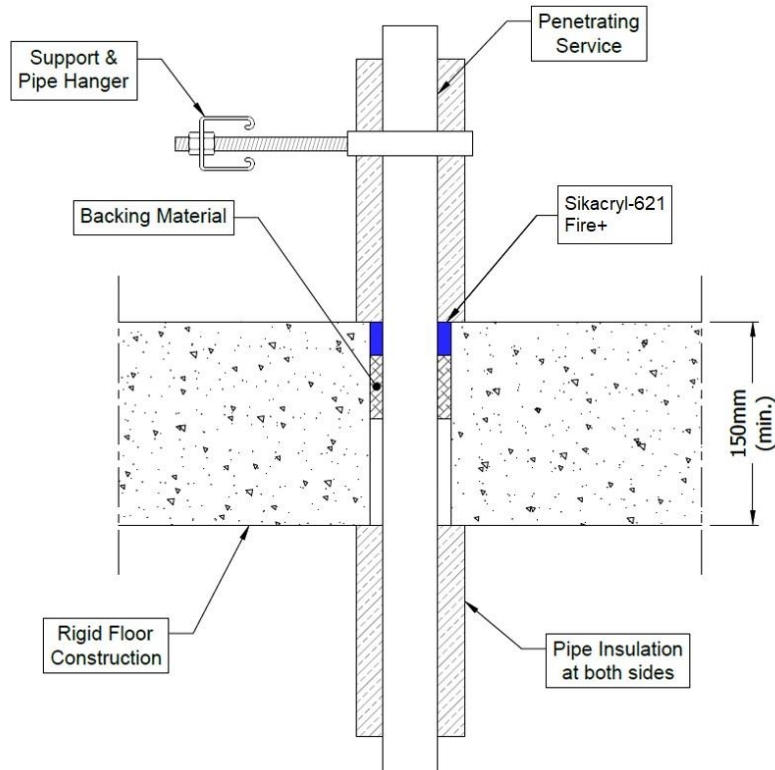
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.8 Single side penetration seal with metallic pipes

Penetration Seal: LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm deep Sikacryl-621 Fire+ to the top side of the floor, backed with 48 mm deep minimum 33 kg/m³ stone wool insulation or AES Fibre ≥ 128kg/m³.

Construction details:



A.6.8.1

Services	Max. seal size	Insulation (min)	Sealant depth	Classification
Copper or steel pipe up to 54 mm diameter/0.7-14.2 mm wall	300 x 300 mm	20 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	EI 180 C/C
Copper or steel pipe up to 108 mm diameter/0.7-14.2 mm wall	300 x 300 mm	30 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	E 180 C/C, EI 30 C/C
Copper or steel pipe up to 159 mm diameter/0.7-14.2 mm wall	300 x 300 mm	30 mm Stone wool 80 kg/m ³ , 1000 mm length from both sides of the seal	25 mm	E 90 C/C, EI 20 C/C
Steel pipe up to 273 mm diameter/0.7-14.2 mm wall	300 x 300 mm	30 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	E 180 C/C, EI 60 C/C
Alupex pipe up to 16 mm diameter/2.25 mm wall	300 x 300 mm	20 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	EI 180 C/C
Alupex pipe up to 75 mm diameter/2.25-4.7 mm wall	300 x 300 mm	25 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	E 180 C/C, EI 120 C/C

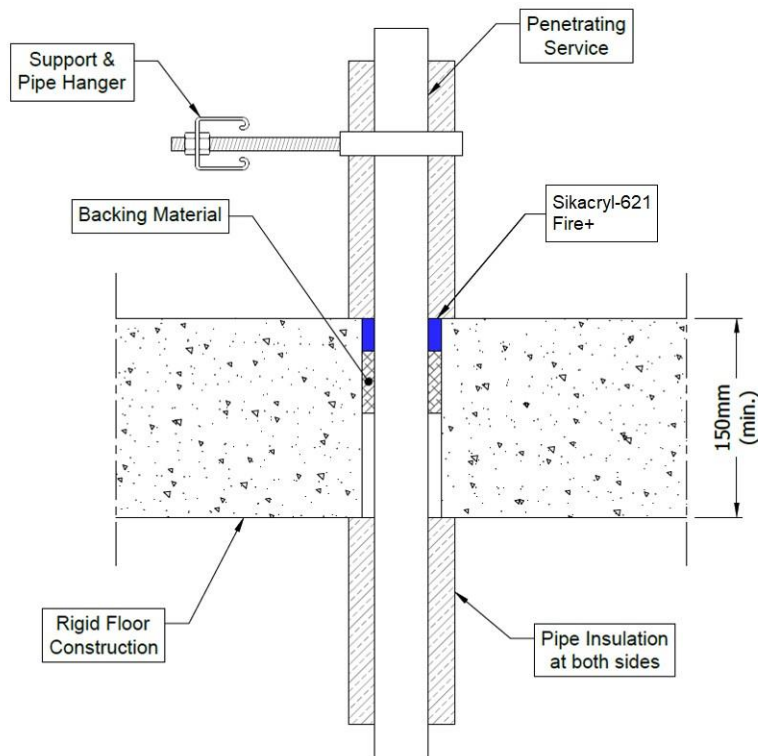
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.9 Single side penetration seal with composite pipes

Penetration Seal: CI (Continuous Interrupted) or LI (Locally Interrupted) insulated composite pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+, minimum 10 mm seal width around service and maximum 300 x 300 mm seal, backed with AES Fibre $\geq 128\text{kg/m}^3$.

Construction details:



A.6.9.1

Services	Sealant depth	Backing	Insulation (minimums)	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 mm wall	25 mm	48 mm AES Fibre $\geq 128\text{kg/m}^3$	20 mm stonewool 80 kg/m^3 , 500 mm length from both sides of the seal	EI 240 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				

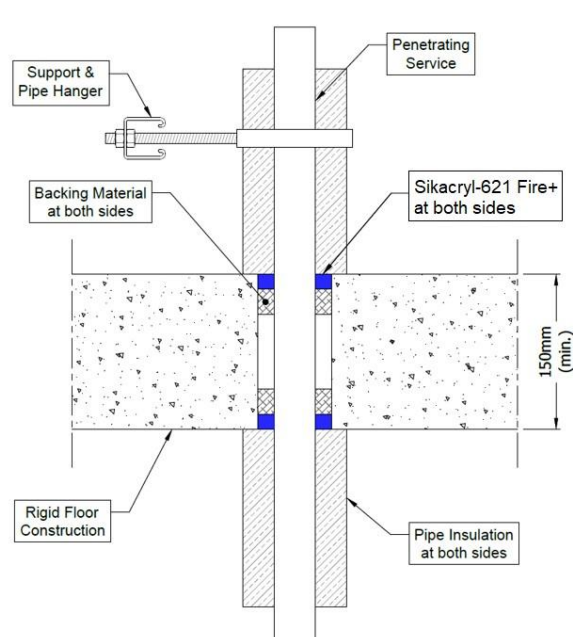
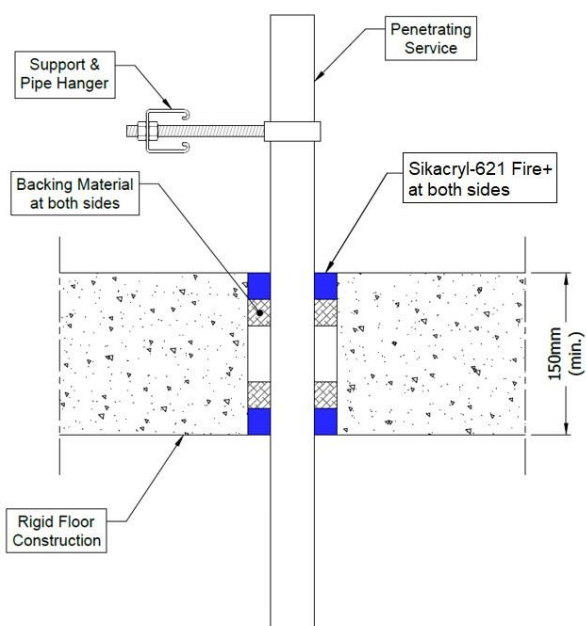
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.10 Double side penetration seal with metallic pipes

Penetration Seal: Non-insulated or insulated metallic pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the floor, backed with stone wool or mineral fibre insulation.

Construction details:



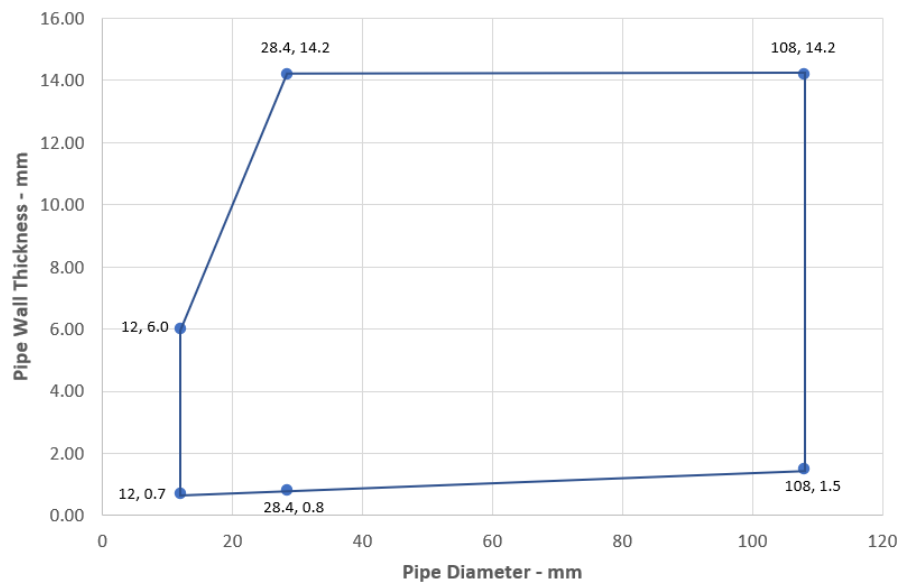
A.6.10.1

Services	Max. Seal Size	Insulation	Sealant depth	Backing (minimum)	Classification
Copper or steel pipe 54 mm diameter/2-14.2 mm wall	300 x 300 mm	None	25 mm	25 mm deep 140 kg/m ³ stone wool	E 120 C/U, EI 20 C/U
Copper or steel pipe maximum 108 mm diameter /0.7-14.2 mm wall*		30 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	15 mm	25 mm deep 33 kg/m ³ stone wool	E 120 C/C, EI 45 C/C
Mild steel pipe 16 mm diameter/1.5-7.5 mm wall		None	25 mm	25 mm deep 140 kg/m ³ stone wool	EI 240 C/U
Mild steel pipe maximum 63 mm diameter/1.5-14.2 mm wall			15 mm	25 mm deep 35 kg/m ³ stone wool	E 240 C/U EI 30 C/U
Mild steel pipe 16 mm diameter/1.5-7.5 mm wall	Up to 100 x 1000 mm		25 mm	AES Fibre ≥ 128kg/m ³ 25 mm deep	EI 120 C/U

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Stone or Glass Wool Insulation - C/C



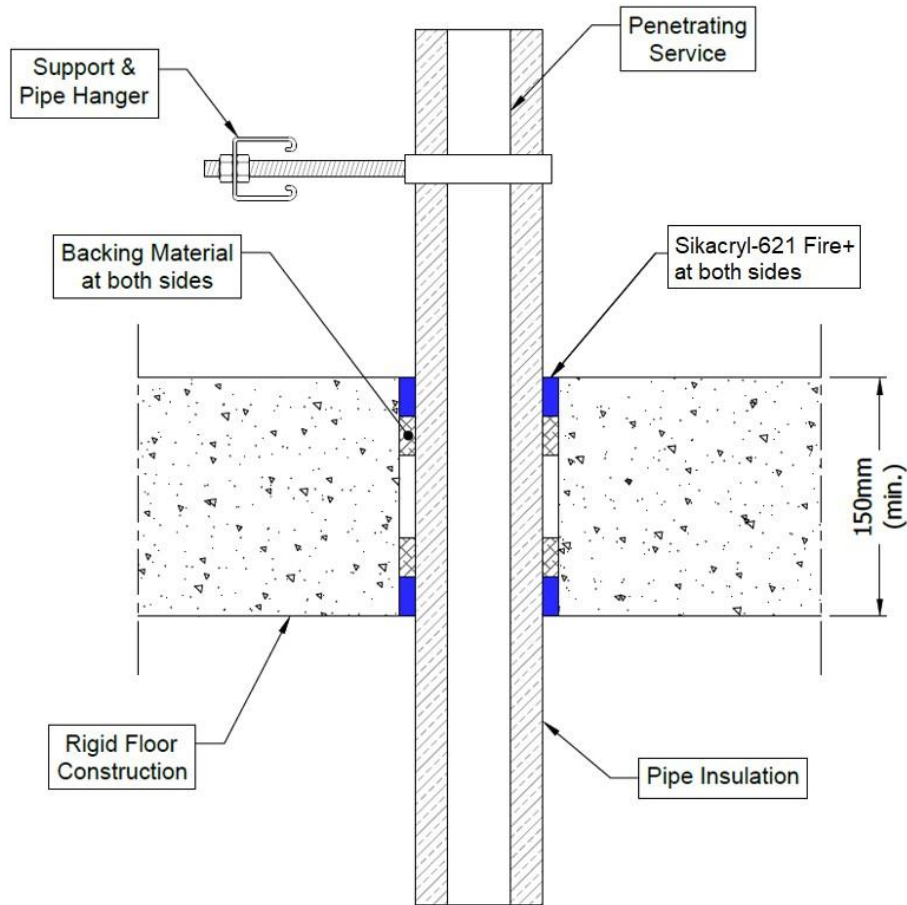
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.11 Double side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the floor, maximum 300 x 300 mm seal width around service, backed with stone wool insulation or AES Fibre $\geq 128\text{kg/m}^3$.

Construction details:



Declaration of Performance

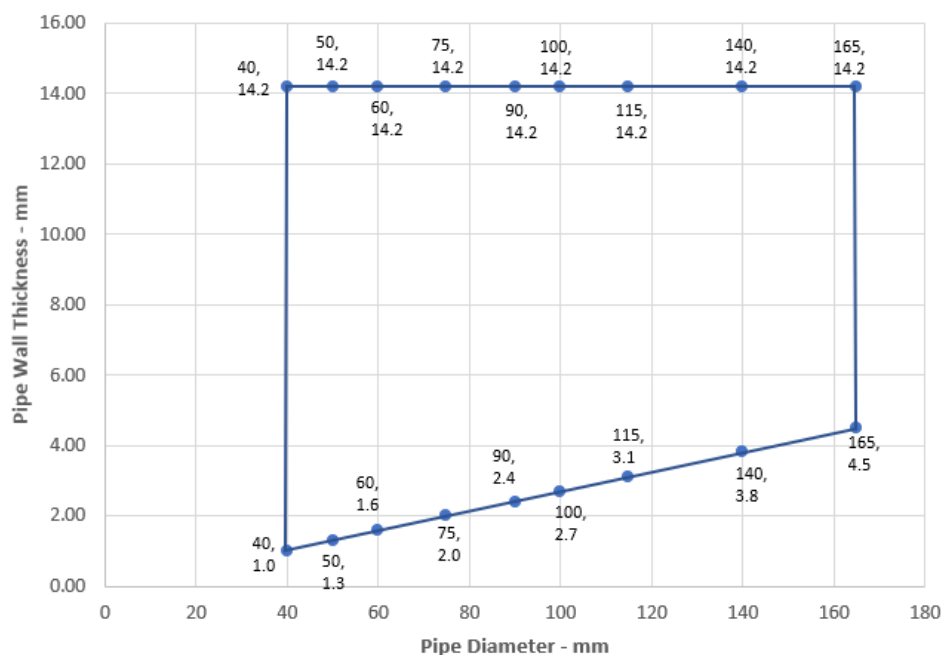
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74951760
2025.01. , ver. 1
1549

A.6.11.1

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Mild or stainless steel pipe				
40 mm diameter/1-14.2 mm wall	25 mm	20 mm Stone wool 40 kg/m³	13 -19 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	EI 180 C/U
40 mm diameter/1-14.2 mm wall*	25 mm	25 mm AES Fibre ≥ 128kg/m³		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*				
12-273 mm diameter/0.7-14.2 mm wall	15 mm	25 mm Stone wool 33 kg/m³	30-60 mm thick glass or stone, mineral wool min.	EI 60 C/U

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

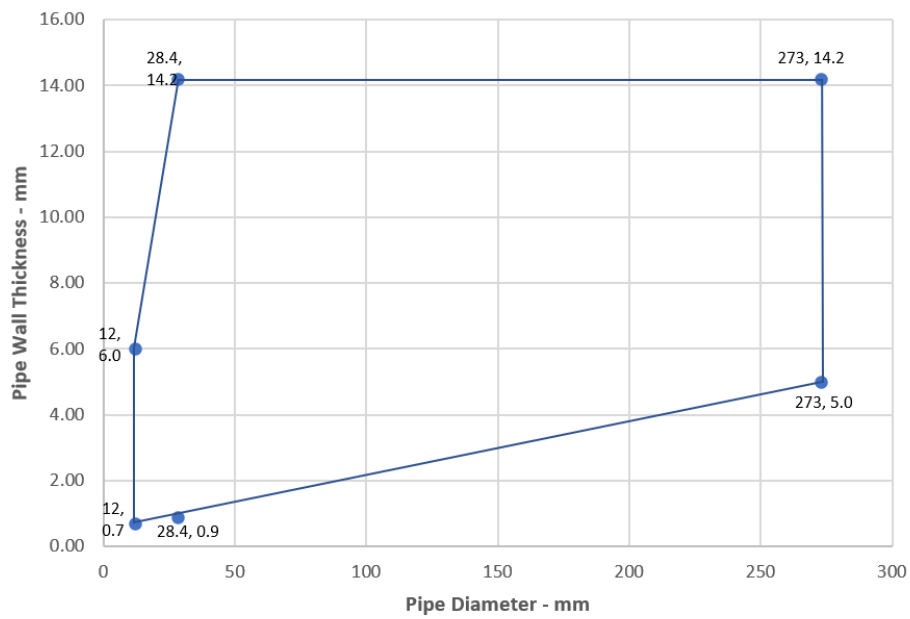
Steel Pipes with 13-19 mm Elastomeric Insulation - C/U



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Mild Steel Pipes with 30-60 mm Stone or Glass Wool Insulation - C/U

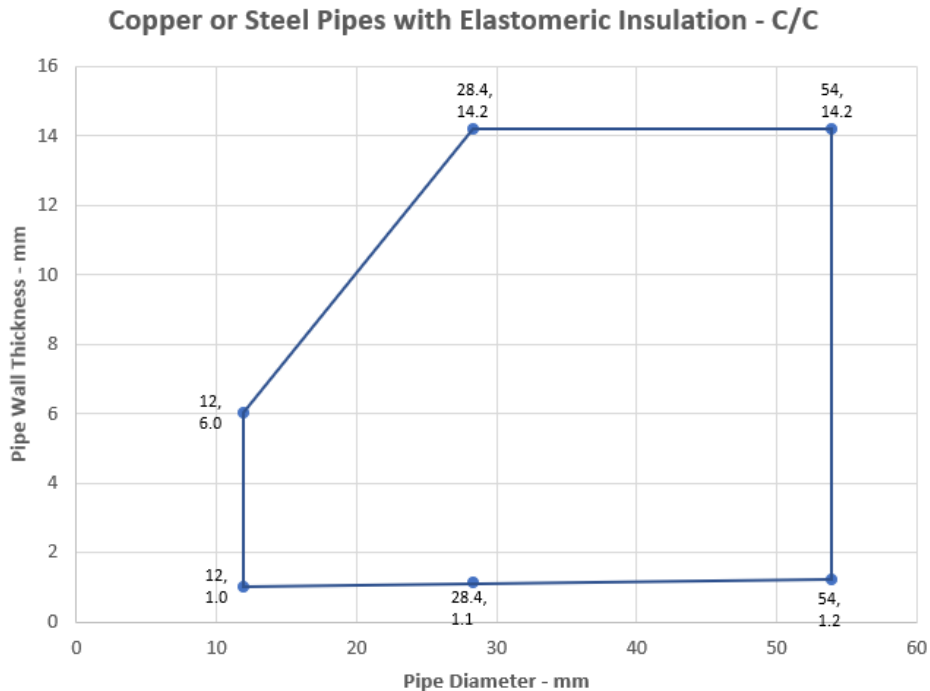


Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Copper or steel pipe				
12 mm diameter/1-6 mm wall	25 mm	25 mm AES Fibre $\geq$ 128kg/m ³	9 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	E 240 C/C, EI 180 C/C
12-54 mm diameter/1-14.2 mm wall*			9-13 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	E 180 C/C, EI 120 C/C
12-54 mm diameter/1-14.2 mm wall*			13-25 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	E 90 C/C, EI 60 C/C
12-54 mm diameter/0.7-14.2 mm wall	15 mm	25 mm Stone wool 33 kg/m ³	20-60 mm thick glass or stone, mineral wool min.	EI 120 C/C

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



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 mm wall	25 mm	25 mm AES Fibre $\geq 128\text{kg/m}^3$	9 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	EI 180 C/C
16 mm diameter/2.25 mm wall			9-13 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	E 120 C/C, EI 60 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				
16 mm diameter/2.25 mm wall			13-25 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	EI 60 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				

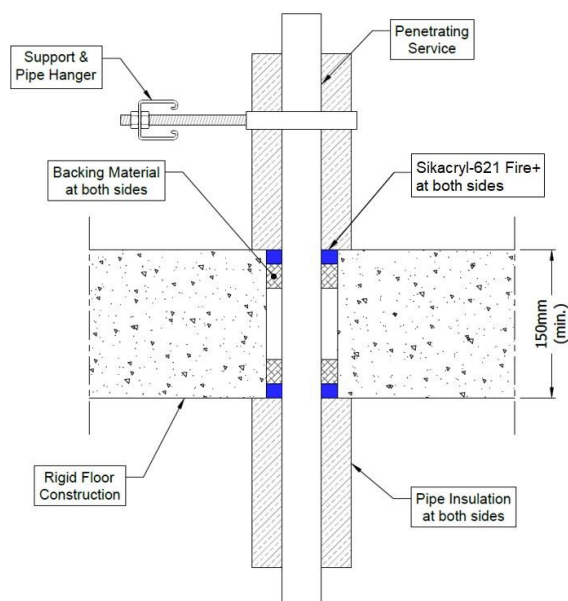
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.12 Double side penetration seal with metallic pipes

Penetration Seal: 1000 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm deep Sikacryl-621 Fire+ to both sides of the floor (or at any position between), backed with 20 mm deep minimum 40 kg/m³ stone wool insulation*.

Construction details:



A.6.12.1

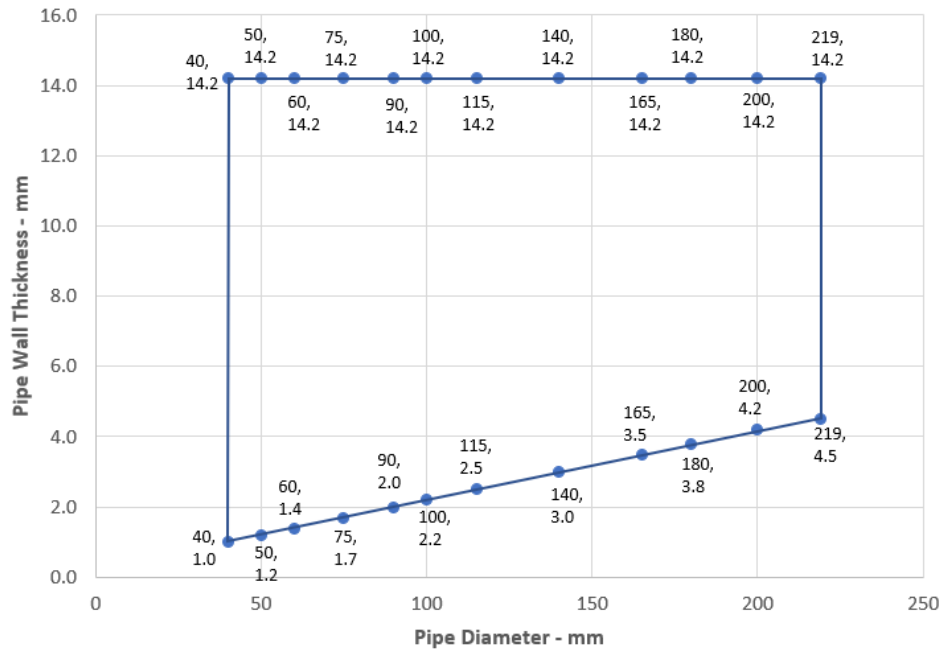
Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall	300 x 300 mm or 100 x 1000 mm	20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 120 C/U
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.7-14.2 mm wall*			
90 mm diameter/2-14.2 mm wall*			
100 mm diameter/2.2-14.2 mm wall*			
115 mm diameter/2.5-14.2 mm wall*			
140 mm diameter/3-14.2 mm wall*			
165 mm diameter/3.5-14.2 mm wall*			
180 mm diameter/3.8-14.2 mm wall*			
200 mm diameter/4.2-14.2 mm wall*			
219 mm diameter/4.5-14.2 mm wall*			

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Stone Wool Insulation - C/U

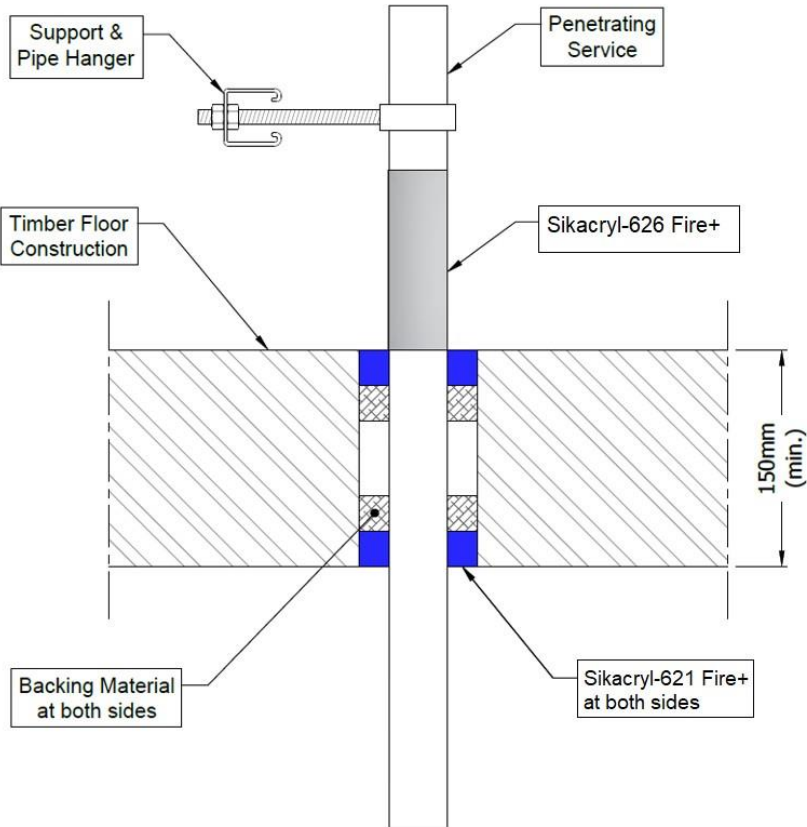
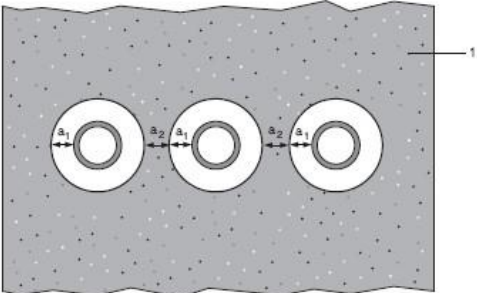


Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7. Timber floor constructions with floor thickness of minimum 150 mm

A.7.1 Double sided penetration seal with cables

Penetration Seal: Cables fitted at any position within the aperture, sealed with Sikacryl-621 Fire+, minimum 25 mm deep to both sides of the floor and backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1:	
	Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals

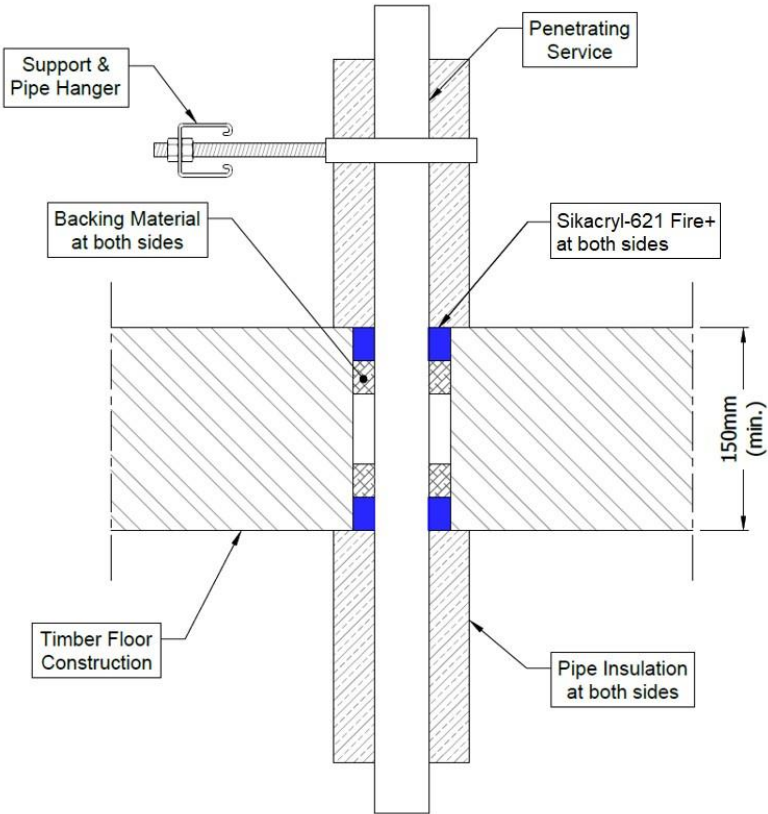
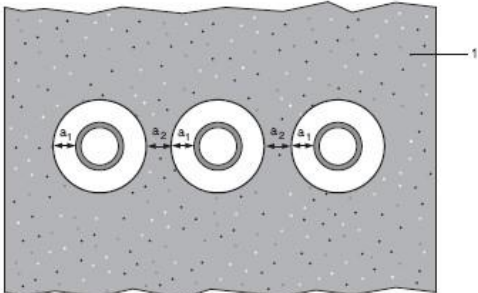
A.7.1.1

Services	Sealant depth	Backing	Maximum aperture	Insulation, minimum	Classification
None (blank)	25 mm	Stone wool 25 mm deep min. 33kg/m ³	Ø 220 mm	None	EI 120
Cables up to 14 mm Ø, single or in bundles up to 100 mm Ø				Sikacryl-626 Fire+, 260-micron DFT extending 150 mm from top side of the seal	EI 120
Cables up to 21 mm Ø, single or in bundles up to 100 mm Ø					E 120, EI 90
Cables up to 50 mm Ø, single or in bundles up to 100 mm Ø					E 120, EI 90
Telecom cables up to 14 mm Ø, single or in bundles up to 100 mm Ø					E 120, EI 90

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7.2 Double side penetration seal with metallic pipes

Penetration Seal: 500 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes and composite pipes (single) with glass wool or stone, mineral wool min. 75 kg/m³, fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the floor, backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
	Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals

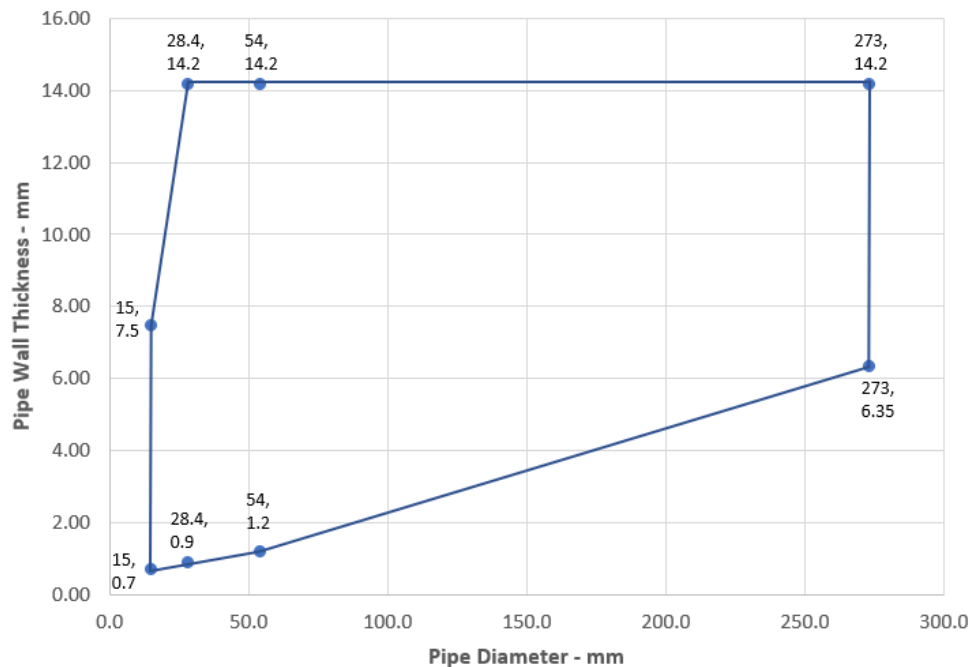
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7.2.1

Services	Maximum aperture	Sealant depth	Backing	Insulation, minimum	Classification
Mild or stainless steel pipe					
Maximum 273 mm diameter /6.35-14.2 mm wall*	Ø 293 mm	25 mm	Stone wool 25 mm deep min. 33kg/m³	25 mm glass wool or stone, mineral wool min. 75 kg/m³, 500 mm length from both sides of the	E 120 C/C, EI 60 C/C
Copper or steel pipe					
Maximum 15 mm diameter /0.7-7.5 mm wall*	Ø 220 mm	25 mm	Stone wool 25 mm deep min. 33kg/m³	20 mm glass wool or stone, mineral wool min. 75 kg/m³, 500 mm length from both sides of the seal	EI 120 C/C
Maximum 54 mm diameter /1.2-14.2 mm wall*					E 120 C/C, EI 90 C/C
Alupex Pipe					
Maximum 16 mm diameter/ 2.25 mm wall*	Ø 220 mm	25 mm	Stone wool 25 mm deep min. 33kg/m³	20 mm glass wool or stone, mineral wool min. 75 kg/m³, 500 mm length from both sides of the	EI 120 C/C
Maximum 75 mm diameter/ 4.6 mm wall*				25 mm glass wool or stone, mineral wool min. 75 kg/m³, 500 mm length from both sides of the	E 120 C/C, EI 90 C/C

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

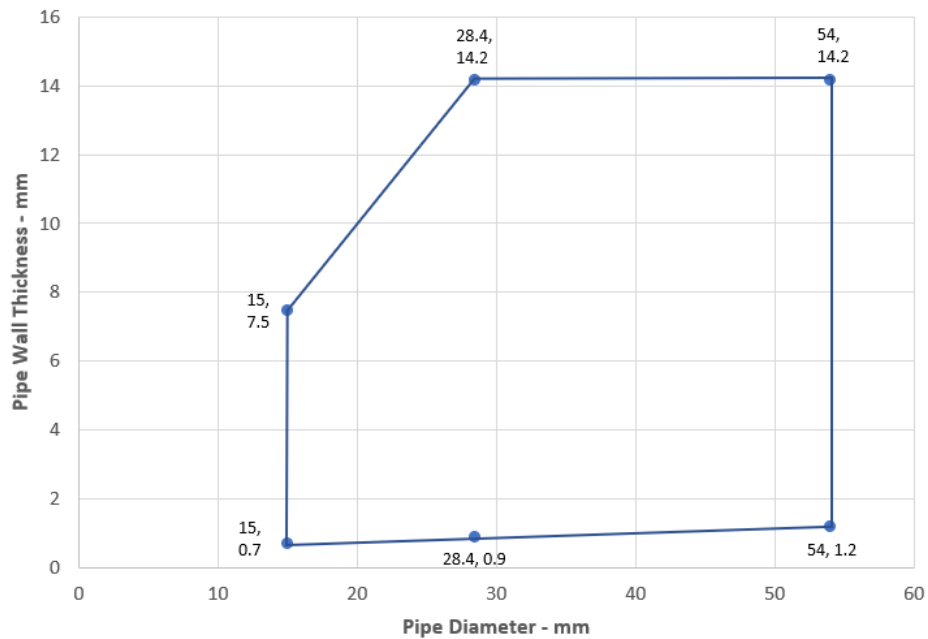
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



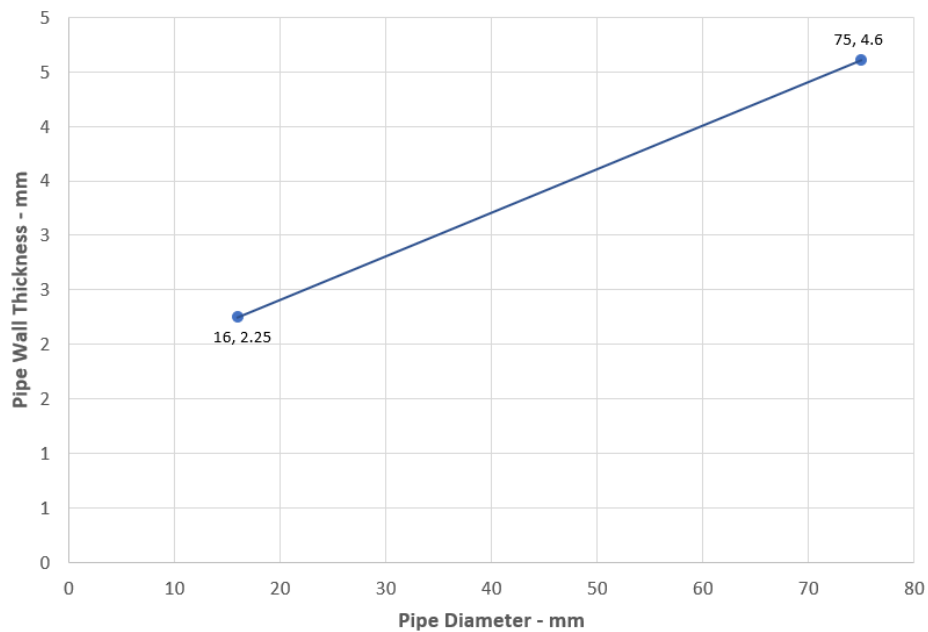
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



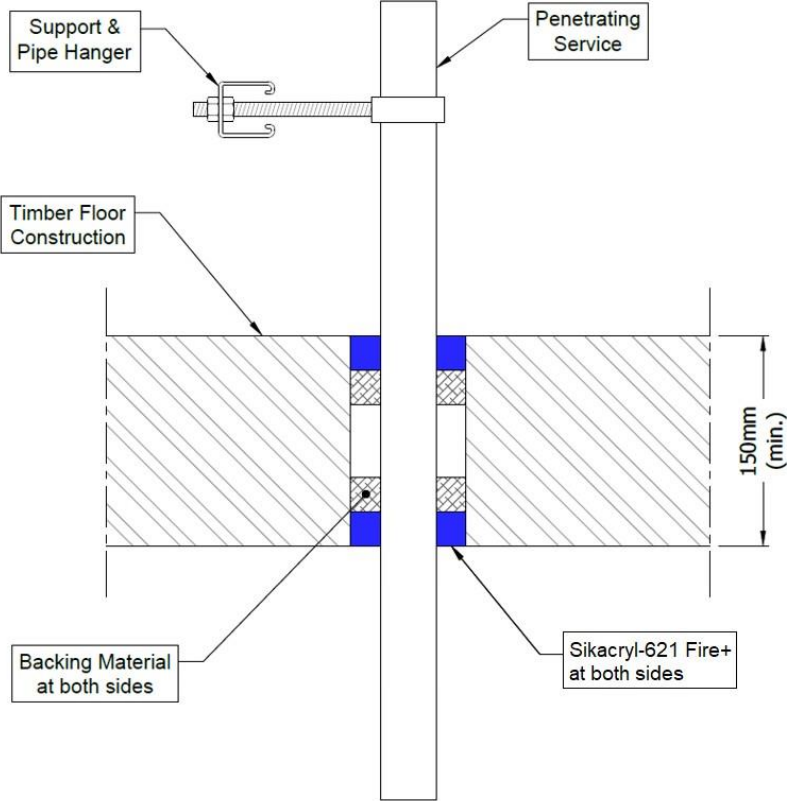
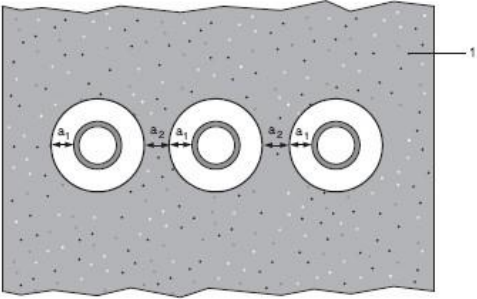
Alupex Pipes with Glass Wool or Mineral Wool Insulation - C/C



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7.3 Double side penetration seal with plastic pipes and composite pipes

Penetration Seal: Plastic and composite pipes (single) fitted at any position within the aperture, with Sikacryl- 621 Fire+ to both sides of the floor, backed with stone, mineral wool min. 33 kg/m³. Minimum annular space 10 mm and maximum 30 mm (a1) and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals	

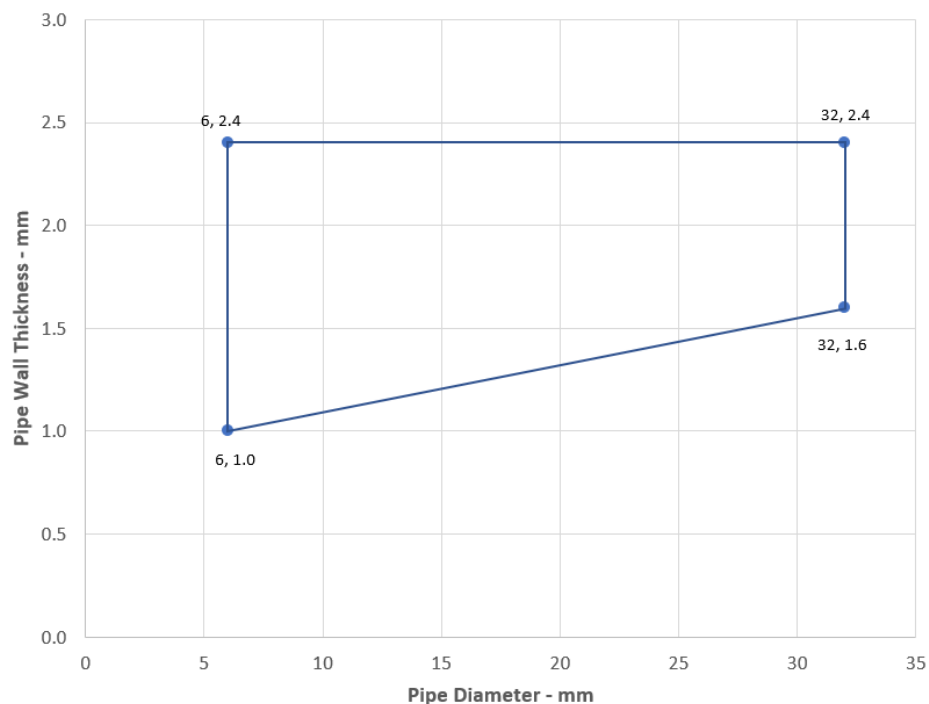
Declaration of Performance
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7.3.1

Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Maximum 32 mm diameter/1.0-2.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 120 U/C
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			
Maximum 32 mm diameter/2.0-3.0 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 120 U/C
PP pipe according to EN 1451-1 or DIN 8077/8078			
Maximum 32 mm diameter/1.8-4.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 120 U/C
PEX pipe in pipe system			
25 mm diameter outer /15 mm diameter x 2.5 mm wall inner	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 120 C/C

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

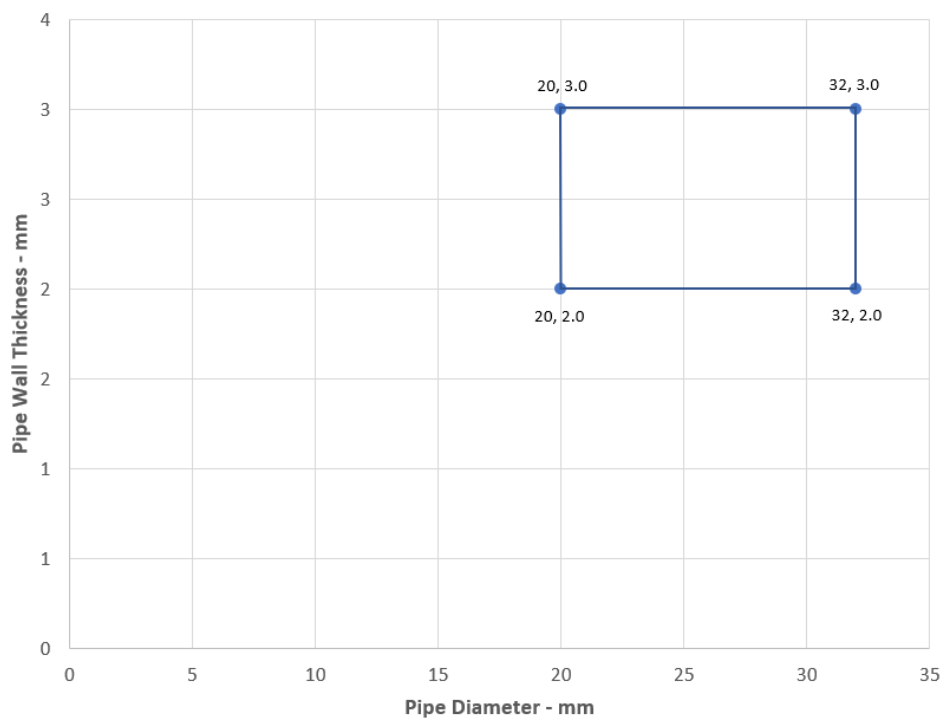
PVC-U Pipes EI 120 - U/C



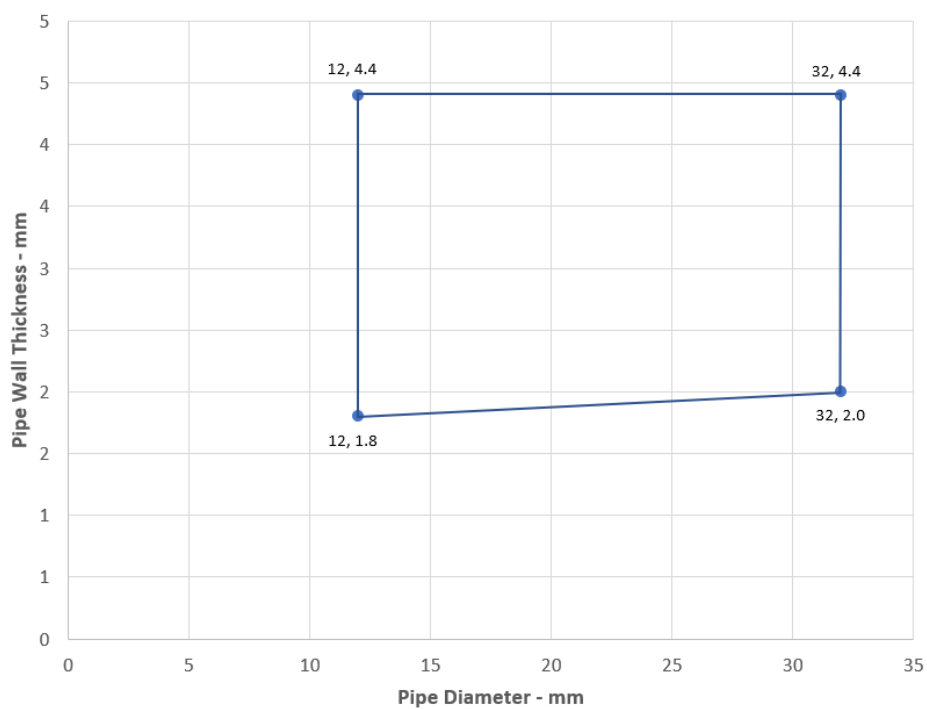
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PE Pipes EI 120 - U/C



PP Pipes EI 120 - U/C

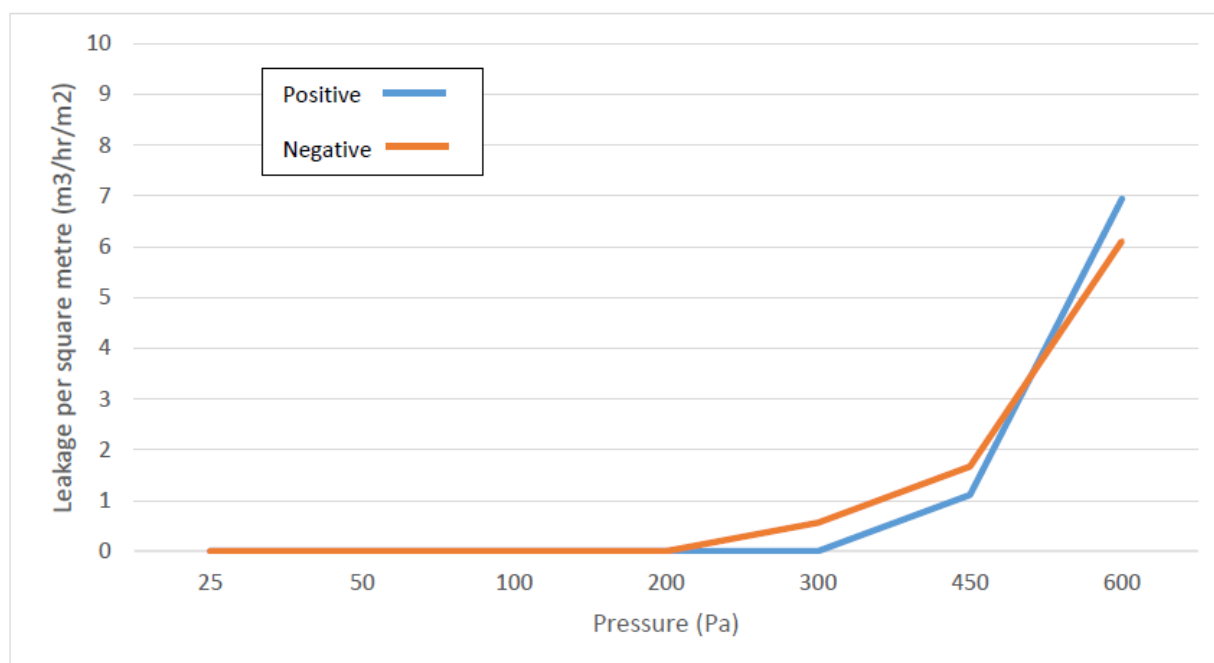


Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

ANNEX B – Air Permeability – Sikacryl-621 Fire+

Product tested	10mm deep x 30mm wide Sikacryl-621 Fire+		
	Summary of testing procedure		Result
	Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)
Results under negative chamber pressure	25	0.00	0.00
	50	0.00	0.00
	100	0.00	0.00
	200	0.00	0.00
	300	0.02	0.56
	450	0.06	1.67
	600	0.22	6.11
Results under positive chamber pressure	25	0.00	0.00
	50	0.00	0.00
	100	0.00	0.00
	200	0.00	0.00
	300	0.00	0.00
	450	0.04	1.11
	600	0.25	6.94



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

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

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

Signed for and on behalf of the manufacturer by:

Name : Tomasz Gutowski
Function: Corporate Product
Certification Manager
At Warsaw on 14 January 2025



.....

Name : Barbara Karpala
Function: Data Processing Specialist
Corporate Technical Department
At Warsaw on 14 January 2025



.....

End of information as required by Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC Text with EEA relevance

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

FULL CE MARKING LABEL

CE 25
Sika Services AG, Zurich, Switzerland
DoP No. 74951760
Notified Body 2531
Reaction to fire Class B-s1, d0
Durability Z ₂
Resistance to Fire Annex A
Air permeability Annex B

Declaration of Performance
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

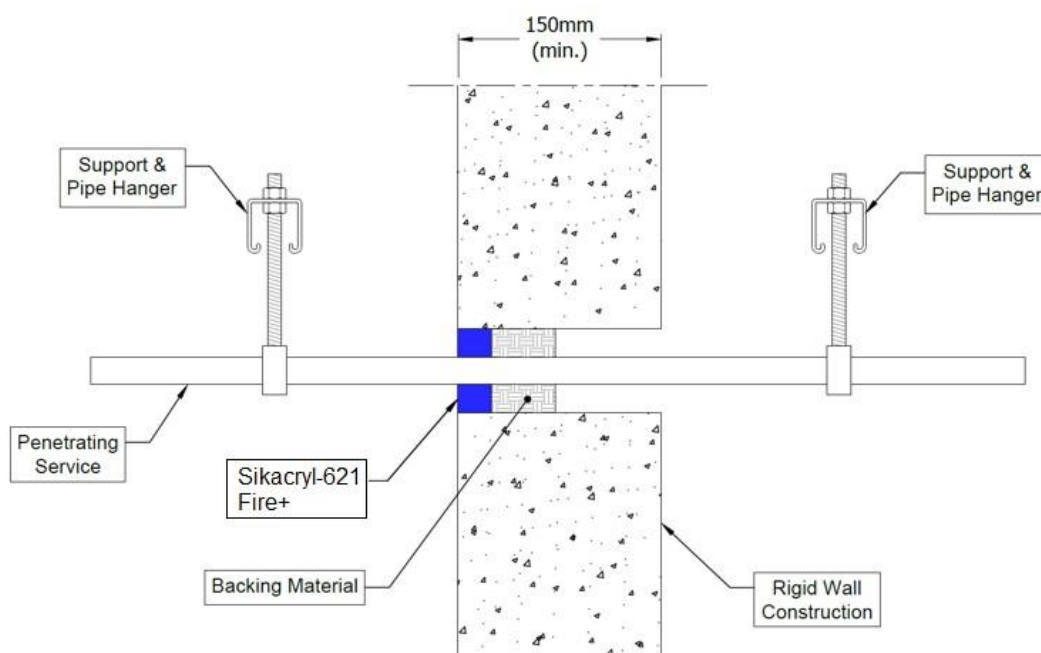
ANNEX A – Resistance to Fire Classification – Sikacryl-621 Fire+

A.1 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

A.1.1 Single side penetration seal with cables

Penetration Seal: Cables (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to either side of the wall (or at any position in between), backed with AES Fibre $\geq 128\text{kg/m}^3$. Minimum separation between cables and the edge of the seal of 7 mm.

Construction details:



A.1.1.1

Services	Sealant depth	Backing	Maximum seal size	Classification
Single electrical cables up to 21 mm $\varnothing$	25 mm	48 mm deep AES Fibre $\geq 128\text{kg/m}^3$	87 mm $\varnothing$	E 240, EI 90
Blank seals	25 mm	48 mm AES Fibre $\geq 128\text{kg/m}^3$ insulation	300 x 300 mm	E 240, EI 60
Electric cables up to 21 mm diameter, single.			35 x 35 mm / 36 mm $\varnothing$	E 240, EI 120
Blank seals				
Electric cables up to 21 mm diameter, single.				

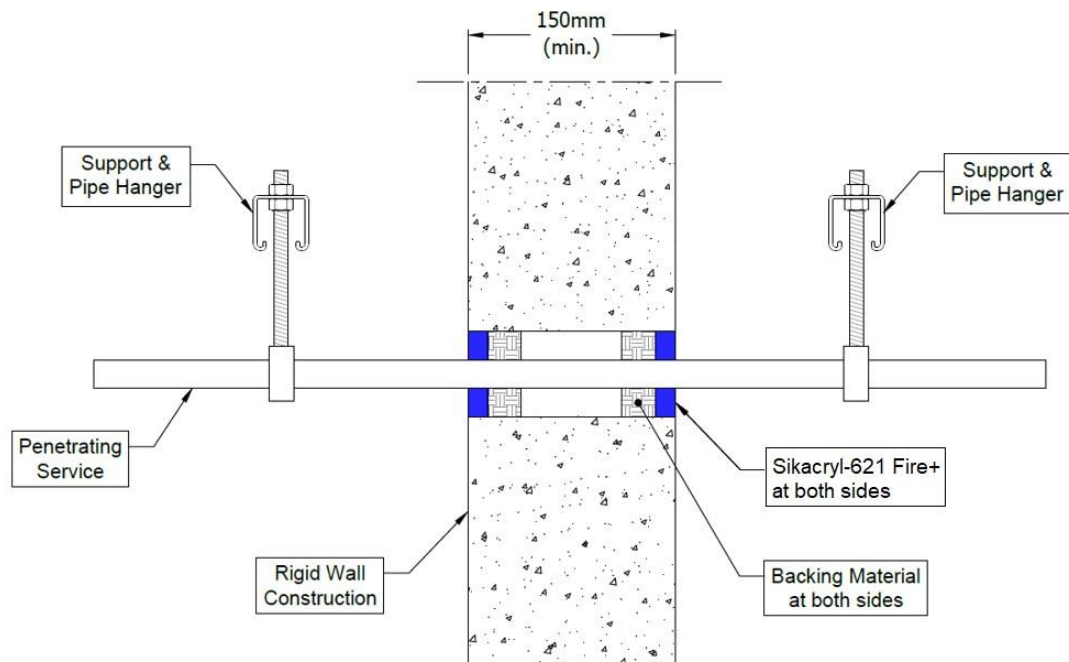
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.2 Double side penetration seal with cables

Penetration Seal: Cables fitted with Sikacryl-621 Fire+ to both sides of the wall, backed with stone wool or mineral fibre insulation. Maximum seal size of 300 x 300 mm and minimum separation between cables and the edge of the seal of 10 mm.

Construction details:



A.1.2.1

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Blank seals	15 mm	25 mm Stone wool 35 kg/m³	None	EI 240
Electric cables up to 21 mm diameter, single or in a bundle.				E 240, EI 120
Electric cables 22-80 mm diameter, single or in a bundle.				E 120, EI 60
Blank seals	25 mm	48 mm AES Fibre ≥ 128kg/m³		EI 240
Electric cables up to 80 mm diameter, single or in a bundle.				E 240, EI 60
Cables up to 21 mm diameter, single or in a bundle up to 100 mm diameter				EI 240

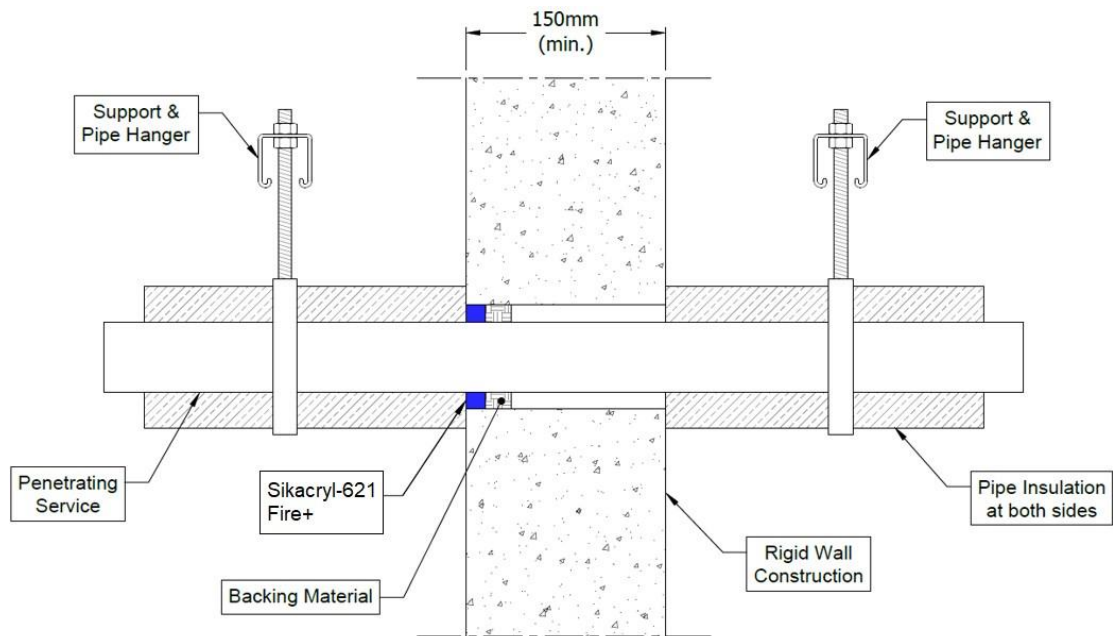
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.3 Single side penetration seal with metallic (and composite) pipes

Penetration Seal: LI (Local Interrupted) of minimum length stated below or CI (Continuous Interrupted) insulated metallic and composite pipes (single) fitted at any position within the aperture, with 15 mm deep Sikacryl-621 Fire+ to either side of the wall (or at any position between), backed with 20 mm deep minimum 40 kg/m³ stone wool insulation*.

Construction details:



A.1.3.1

Services	Seal width around pipe	Insulation (minimum)	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	8-9 mm	1000 mm length 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 180 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall	8 mm		EI 240 C/U
Alupex composite pipe 75 mm diameter/7.5 mm wall	30 mm	25 mm AES Fibre ≥ 128kg/m ³ insulation, 600 mm long (min.)	EI 120 C/U

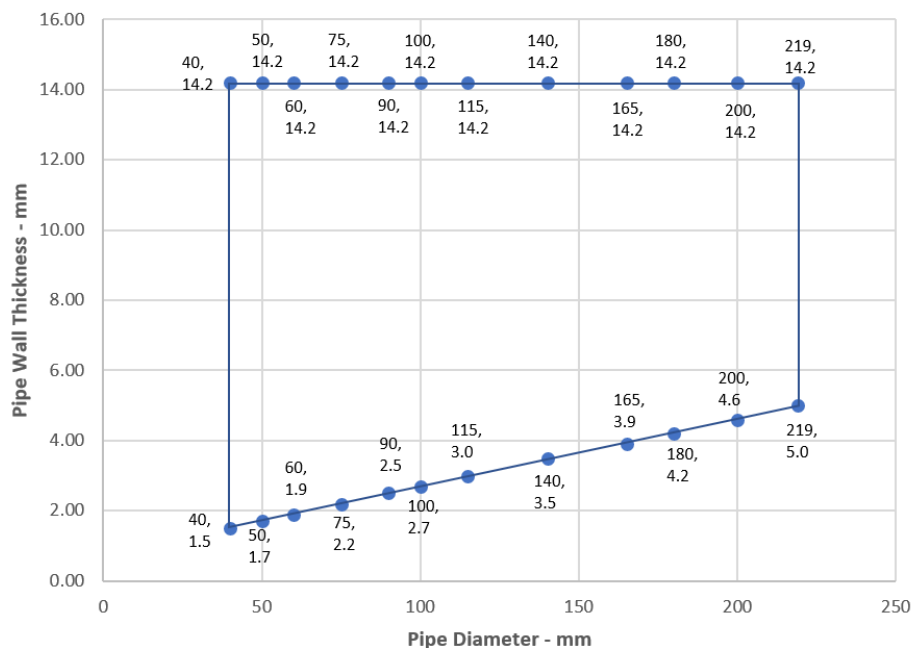
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Seal width around pipe	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	6-18 mm	1000 mm length of 20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1.5-14.2 mm wall*		1000 mm length of 30 mm Stone wool insulation 80 kg/m ³	E 180 C/U, EI 90 C/U
50 mm diameter/1.7-14.2 mm wall*			
60 mm diameter/1.9-14.2 mm wall*			
75 mm diameter/2.2-14.2 mm wall*			
90 mm diameter/2.5-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3-14.2 mm wall*			
140 mm diameter/3.5-14.2 mm wall*			
165 mm diameter/ 3.9-14.2 mm wall*			
180 mm diameter/ 4.2-14.2 mm wall*			
200 mm diameter/ 4.6-14.2 mm wall*			
219 mm diameter/ 5.0-14.2 mm wall*			

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

Steel Pipes with Mineral Wool Insulation - C/U



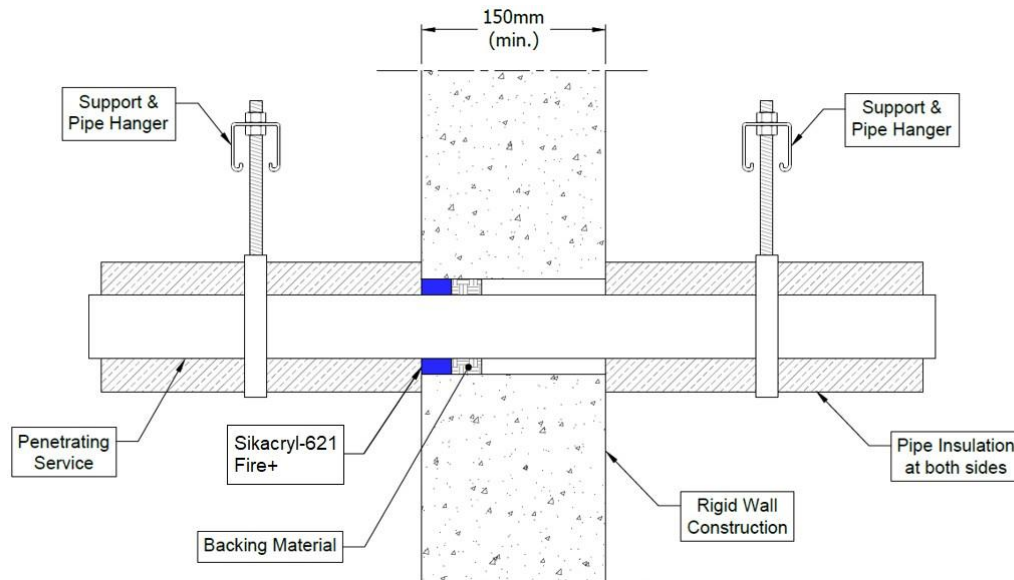
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.4 Single side penetration seal with metallic (and composite) pipes

Penetration Seal: LI (Local Interrupted) of minimum length stated below or CI (Continuous Interrupted) insulated metallic and composite pipes (single) fitted at any position within the aperture, with 25 mm deep Sikacryl-621 Fire+ to either side of the wall (or at any position between), backed with 25 mm deep minimum 40 kg/m³ stone wool insulation*.

Construction details:



A.1.4.1

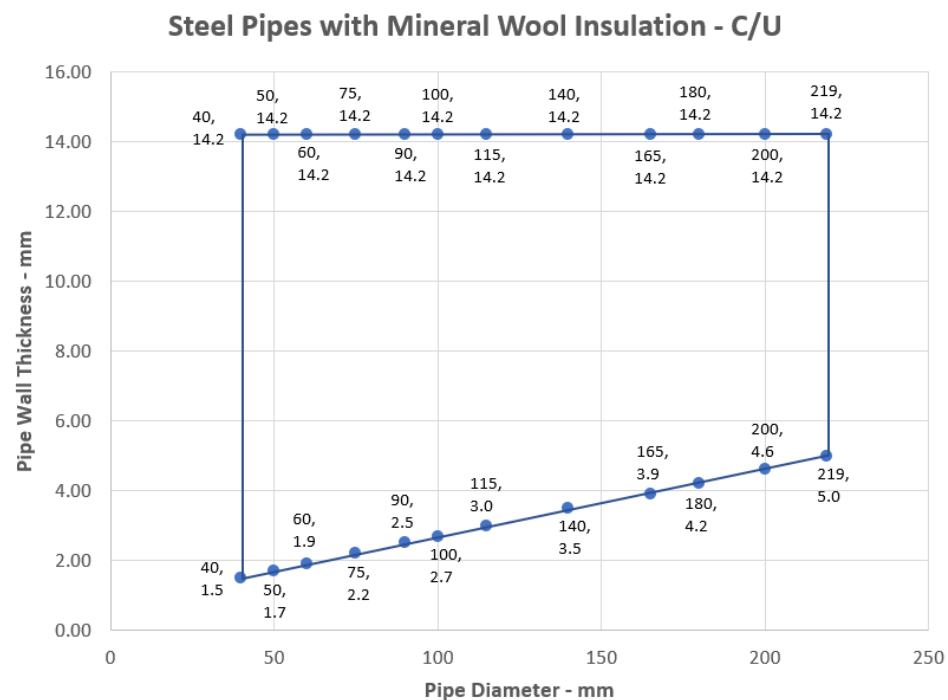
Services	Maximum Seal size	Insulation (minimum)	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	300 x 300 mm	1000 mm length 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 60 C/U
Alupex composite pipe 75 mm diameter/7.5 mm wall		25 mm AES Fibre ≥ 128kg/m ³ insulation, 600 mm long (min.)	

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	300 x 300 mm	1000 mm length of 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 60 C/U
40 mm diameter/1.5-14.2 mm wall*		1000 mm length of 30 mm Stone wool insulation 80 kg/m ³	
50 mm diameter/1.7-14.2 mm wall*			
60 mm diameter/1.9-14.2 mm wall*			
75 mm diameter/2.2-14.2 mm wall*			
90 mm diameter/2.5-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3-14.2 mm wall*			
140 mm diameter/3.5-14.2 mm wall*			
165 mm diameter/ 3.9-14.2 mm wall*			
180 mm diameter/ 4.2-14.2 mm wall*			
200 mm diameter/ 4.6-14.2 mm wall*			
219 mm diameter/ 5.0-14.2 mm wall*			

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



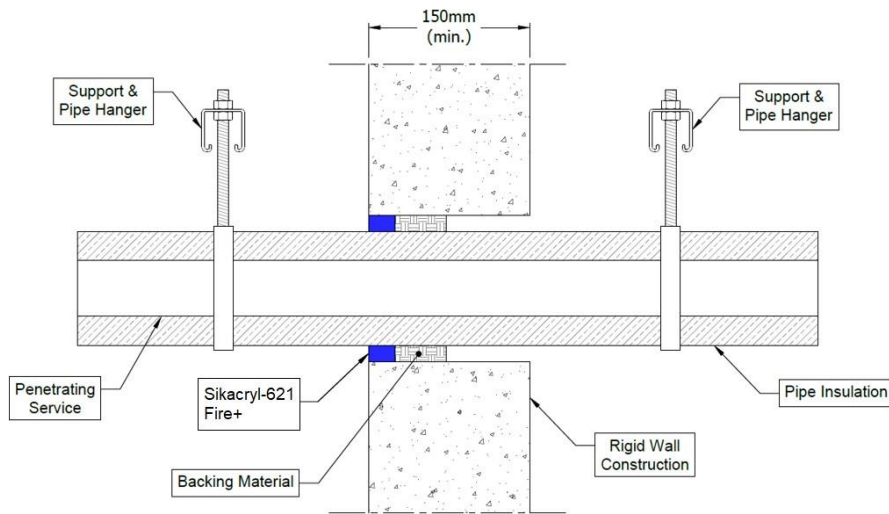
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.5 Single side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic (single), with 25 mm deep Sikacryl-621 Fire+ to either side of the wall (or at any position between), backed with 48 mm deep AES Fibre $\geq 128\text{kg/m}^3$ insulation. Minimum annular space 10 mm and minimum separation between penetrations seals of 30 mm. Maximum seal size 300 x 300 mm or 504 mm $\varnothing$.

Construction details:



A.1.5.1 Single side penetration seal with pipes

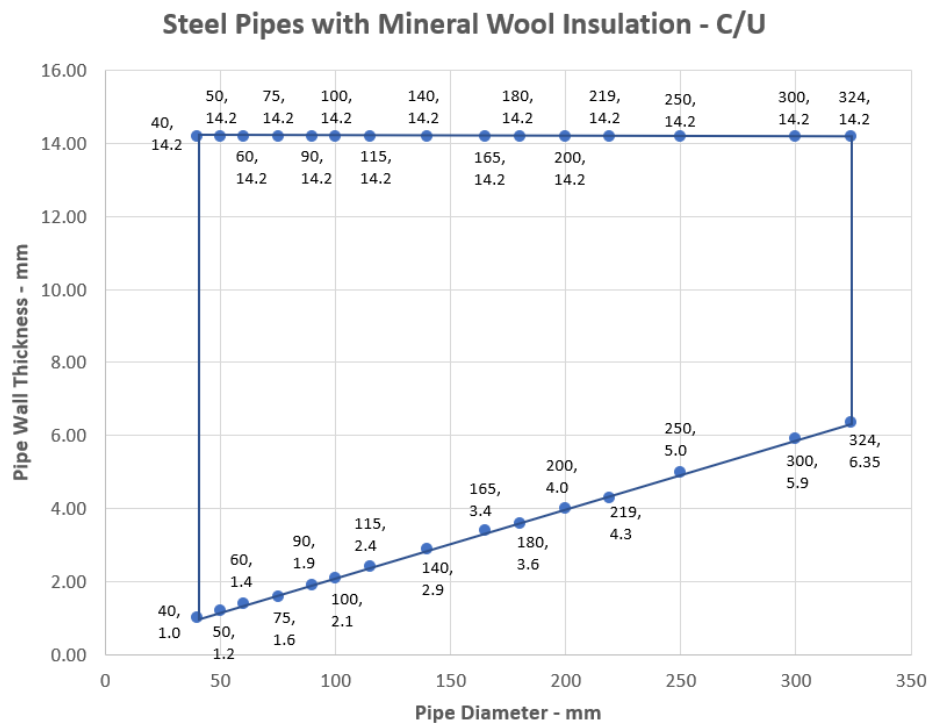
Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	EI 180 C/U
50 mm diameter/1.2-14.2 mm wall*		
60 mm diameter/1.4-14.2 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*		

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

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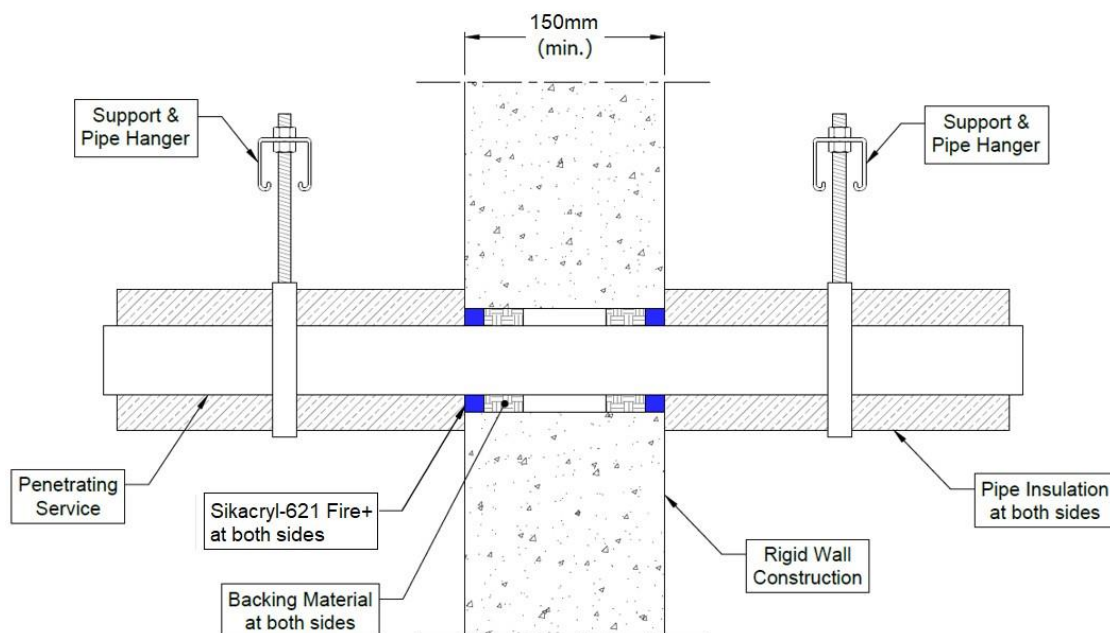
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.6 Double side penetration seal with metallic pipes

Penetration Seal: 1000 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm deep Sikacryl-621 Fire+ to both sides of the wall, backed with 20 or 30 mm deep minimum 40 kg/m³ stone wool insulation.

Construction details:



A.1.6.1

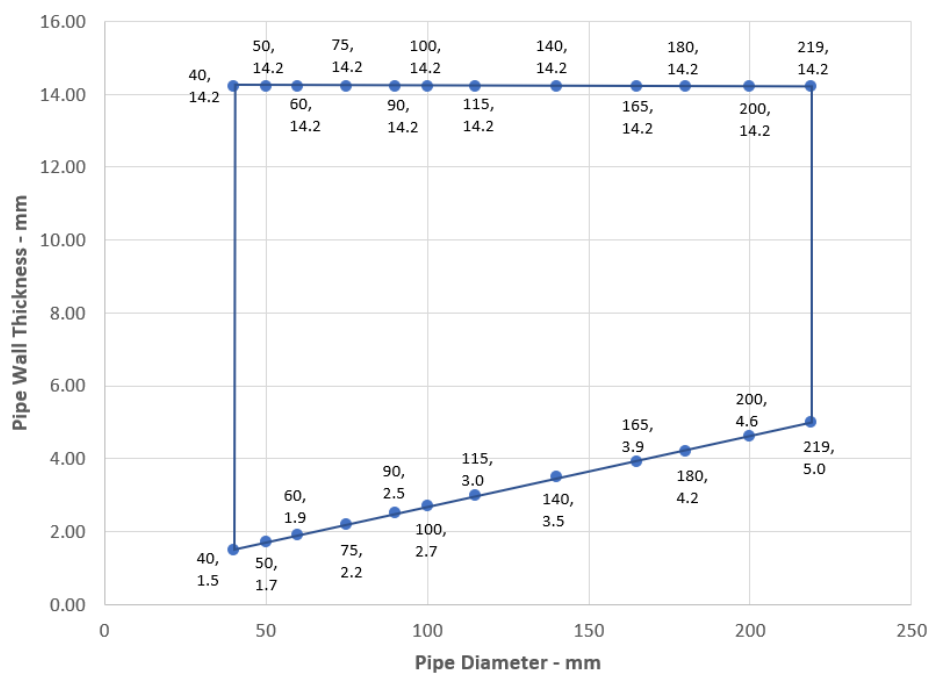
Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	300 x 300 mm	20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1.5-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m ³	E 240, EI 120 C/U
50 mm diameter/1.7-14.2 mm wall*			
60 mm diameter/1.9-14.2 mm wall*			
75 mm diameter/2.2-14.2 mm wall*			
90 mm diameter/2.5-14.2 mm wall*			
100 mm diameter/2.7-14.2 mm wall*			
115 mm diameter/3-14.2 mm wall*			
140 mm diameter/3.5-14.2 mm wall*			
165 mm diameter/ 3.9-14.2 mm wall*			
180 mm diameter/ 4.2-14.2 mm wall*			
200 mm diameter/ 4.6-14.2 mm wall*			
219 mm diameter/ 5.0-14.2 mm wall*			

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Mineral Wool Insulation - C/U



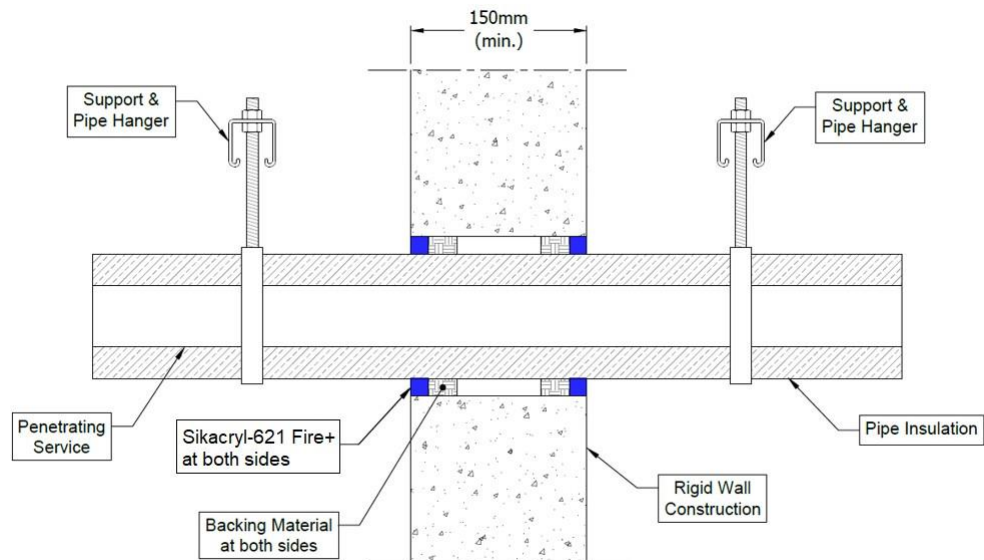
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.7 Double side penetration seal with metallic pipes

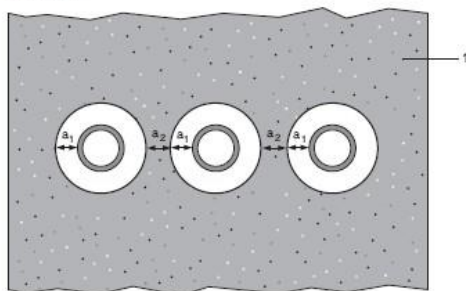
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 504 mm Ø

Construction details:



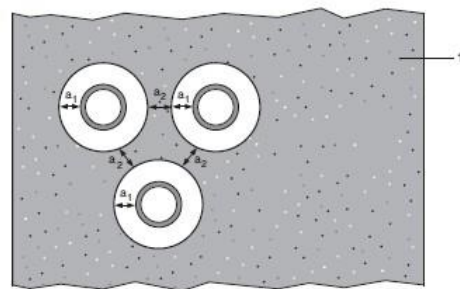
Configuration 1:

Option 1



Configuration 2:

Option 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

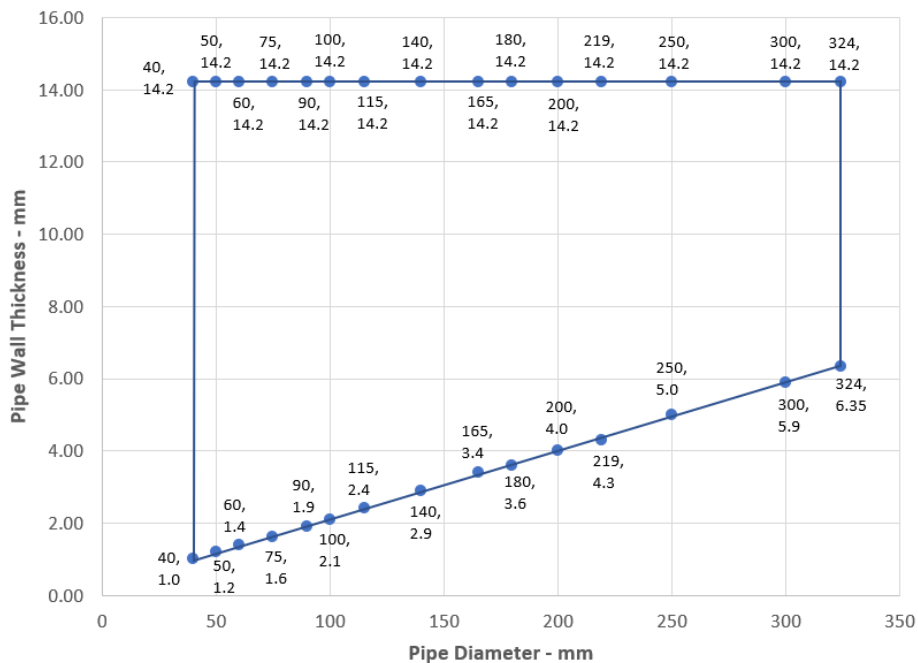
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.7.1 Double side penetration seal with pipes

Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	
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*		

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

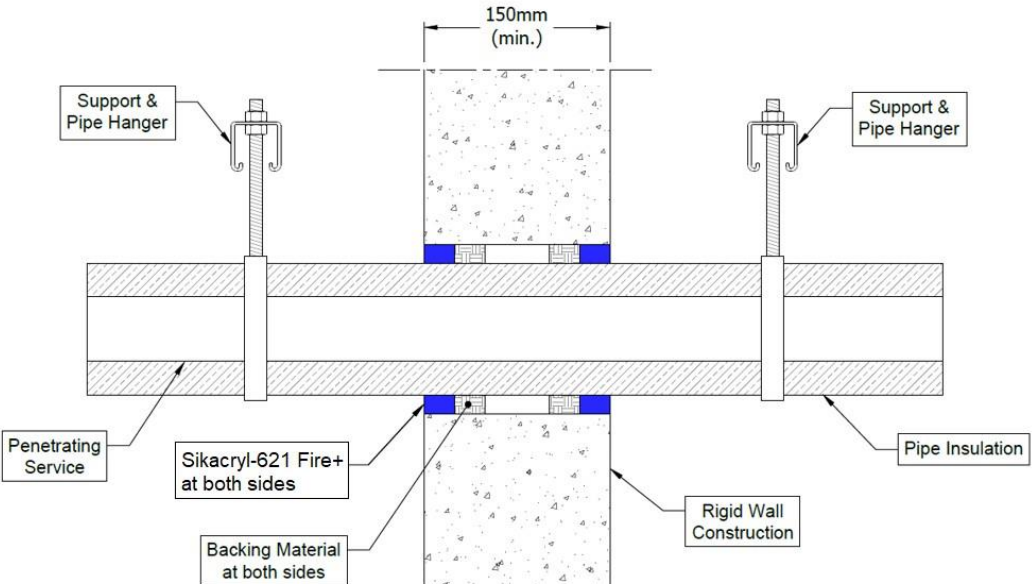
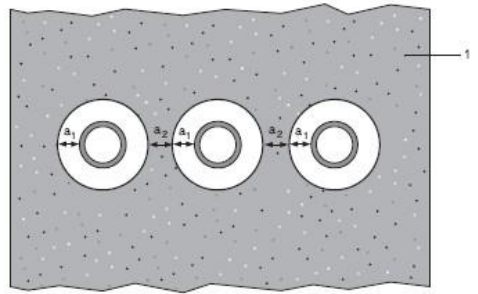
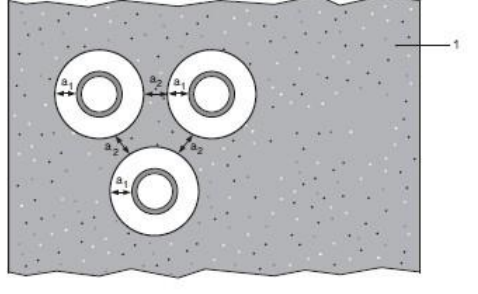
Steel Pipes with Mineral Wool Insulation - C/U



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.8 Double side penetration seal with metallic pipes with combustiblen insulation

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 300 mm Ø	
Construction details: 	
Configuration 1: Option 1 	Configuration 2: Option 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

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

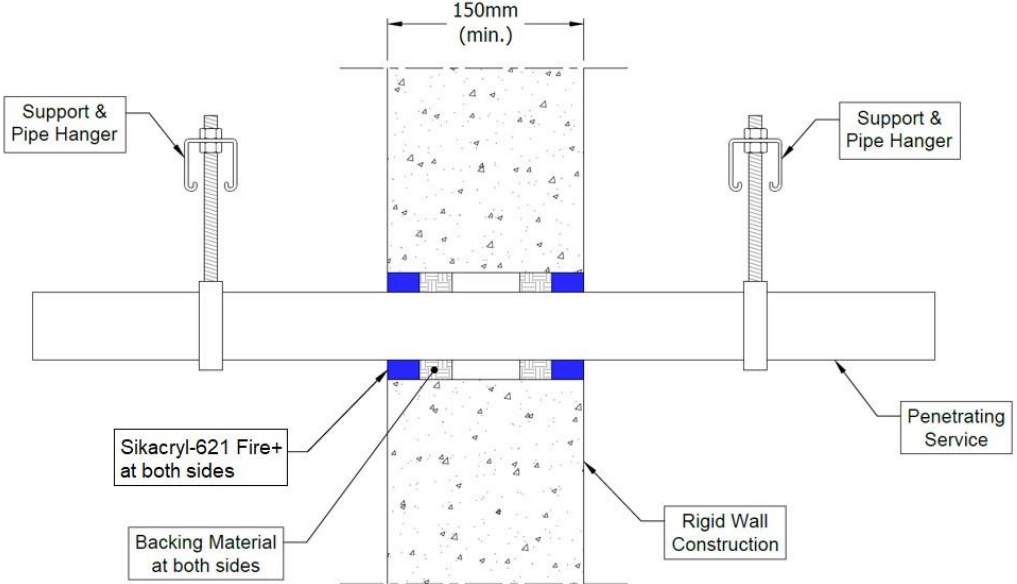
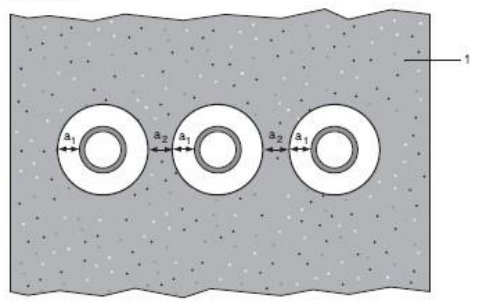
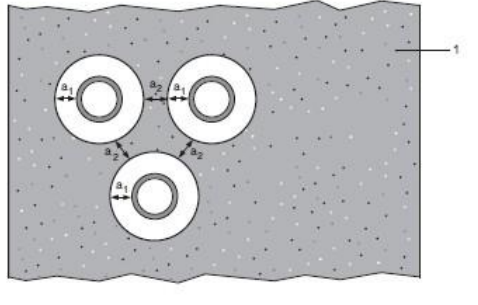
A.1.8.1 Double side penetration seal with metallic pipes with combustible insulation

Services	Insulation	Classification
Mild or stainless steel pipe		
22 mm diameter/2-11 mm wall	13 mm thick Elastomeric insulation minimum class B-s3,d0	E 240 C/U, EI 180 C/U
22-114 mm diameter/2-14.2 mm wall	13-25 mm thick Elastomeric insulation minimum class B-s3,d0	E 120 C/U, EI 90 C/U
22-114 mm diameter/2-14.2 mm wall	25-50 mm thick Elastomeric insulation minimum class B-s3,d0	EI 60 C/U

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.1.9 Double side penetration seal with plastic pipes

Penetration Seal: Plastic and metal pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 300 mm Ø	
Construction details: 	
Configuration 1:	Configuration 2:
Option 1 	Option 2 
Key 1 Supporting construction a1 Pipe / top edge of seal separation a2 Pipe / side edge of seal separation	

A.1.9.1 Double side penetration seal with plastic pipes

Pipe material	Size	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1	6-32 mm diameter/1.0-2.4 mm wall	EI 240 U/C
PVC with bundle of cables up to 21 mm diameter	6-32 mm diameter/1.0-2.4 mm wall	E 240 U/C, EI 120 U/C
PVC with bundle of cables up to 21 mm diameter	40 mm diameter/3.0 mm wall	E 240 U/C, EI 120 U/C
PP pipe according to EN 1451-1 or DIN 8077/8078	32 mm diameter/2.0-4.4 mm wall	EI 180 C/U
	12-32 mm diameter/1.8-4.4 mm wall	EI 240 C/U
PP with bundle of cables up to 21 mm diameter	12-32 mm diameter/1.8-4.4 mm wall	E 180 U/C, EI 120 U/C
PP with bundle of cables up to 21 mm diameter	40 mm diameter/3.7 mm wall	E 180 U/C, EI 120 U/C
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	20-32 mm diameter/2.0 mm wall	EI 240 C/U
	20-32 mm diameter/2.0-4.4 mm wall	EI 120 C/U
PE with bundle of cables up to 21 mm diameter	20-32 mm diameter/2.0-4.4 mm wall	EI 120 U/C
PE with bundle of cables up to 21 mm diameter	40 mm diameter/3.7 mm wall	EI 240 U/C
Copper and steel pipe	6-12 mm diameter/0.6-6.0 mm wall	E 240 C/C, EI 120 C/C
Steel pipe	4-65 mm diameter/1.0-14.2 mm wall	E 240 C/U, EI 20 C/U

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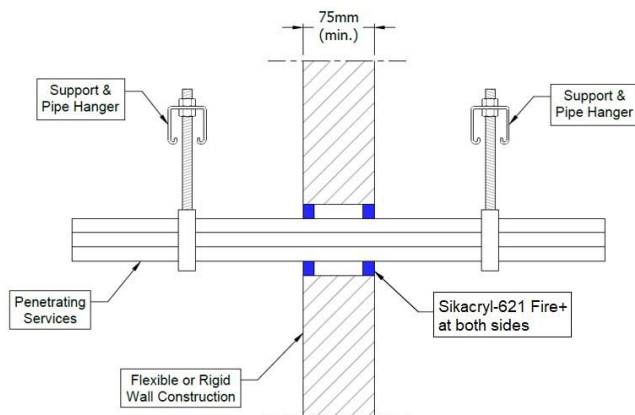
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74951760
2025.01. , ver. 1
1549

A.2 Flexible and rigid wall constructions according to 2. 2) with wall thickness of minimum 75 mm

A.2.1 Double side penetration seal with cables

Penetration Seal: Cables (single or bundles up to 100 mm Ø) and pipes fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2), maximum seal size 150 x 150 mm / 344 mm diameter (when incorporating a pipe of seal diameter -20 mm).

Construction details:



A.2.1.1

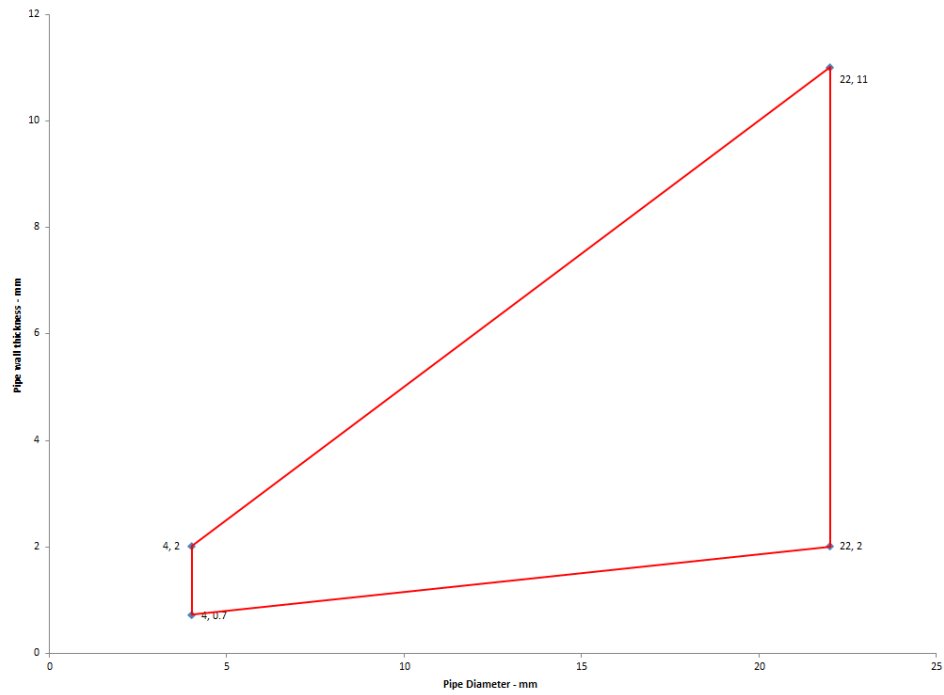
Services	Sealant depth	Backing	Classification
None (blank)	12.5 mm	Any material	EI 60
Cables up to 21 mm Ø, single		None	E 60, EI 45
Cables up to 21 mm Ø, in bundles up to 100 mm Ø			E 45, EI 30
Mild or stainless steel pipe			
4 mm diameter /0.7-2.0 mm wall	12.5 mm	None	E 60 C/U, EI 45 C/U
5-22 mm diameter /0.7-11 mm wall*			E 60 C/U, EI 30 C/U
Mild or stainless steel pipe with minimum 80 kg/m ³ density stone wool insulation Continuous Sustained (CS)			
40 mm diameter /1-14.2 mm wall, 20 mm insulation	12.5 mm	None	E 60 C/U, EI 45 C/U
40-324 mm diameter /1.0-14.2 mm wall, 30 mm insulation*			
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
6-32 mm Ø/1.0-1.8 mm wall, with bundle of cables up to 21 mm diameter*	12.5 mm	None	E 60 U/C, EI 45 U/C
PP pipe according to EN 1451-1 or DIN 8077/8078			
20 mm Ø/2.3 mm wall	12.5 mm	None	EI 45 U/C
21-32 mm Ø/2.3-4.4 mm wall*			EI 30 U/C
21-32 mm Ø/2.3-4.4 mm wall, with bundle of cables up to 21 mm diameter*			E 45 U/C, EI 30 U/C
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			
20 mm Ø/2.0 mm wall	12.5 mm	None	EI 45 U/C
21-32 mm Ø/2.0-3.0 mm wall*			EI 30 U/C
21-32 mm Ø/2.0-3.0 mm wall, with bundle of cables up to 21 mm* diameter			E 45 U/C, EI 30 U/C

* See below graphs for interpolated pipe sizes

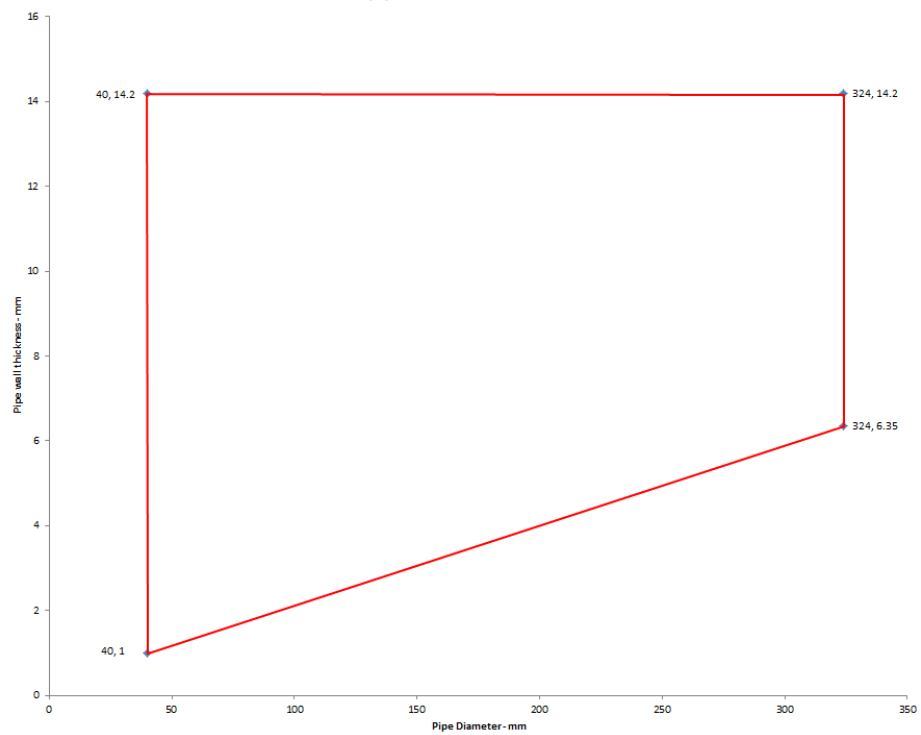
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipe- E 60 U/C, EI 30 U/C



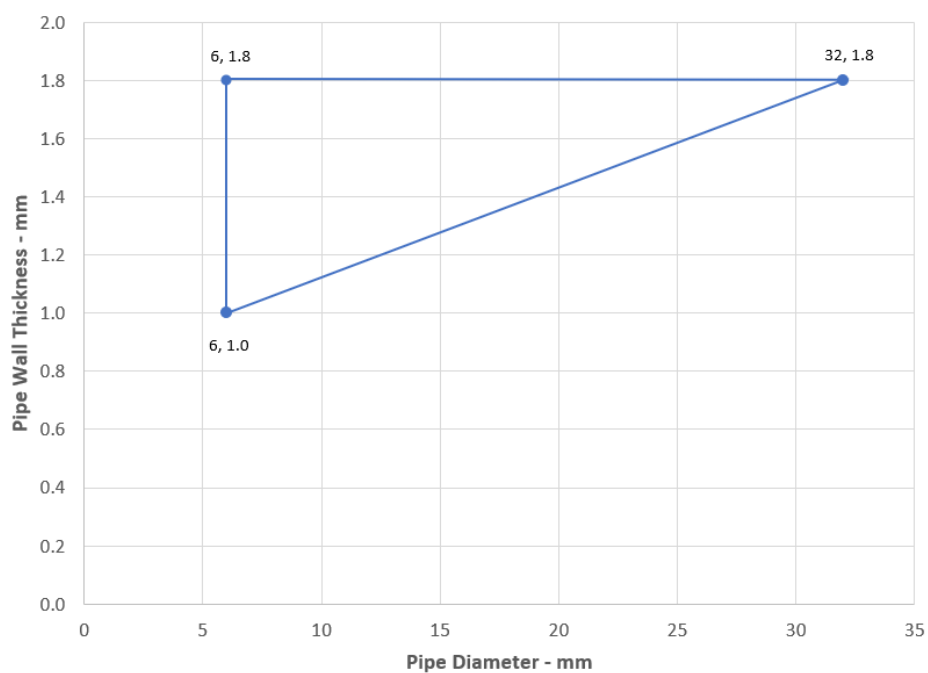
Steel pipes with 30 mm Insulation



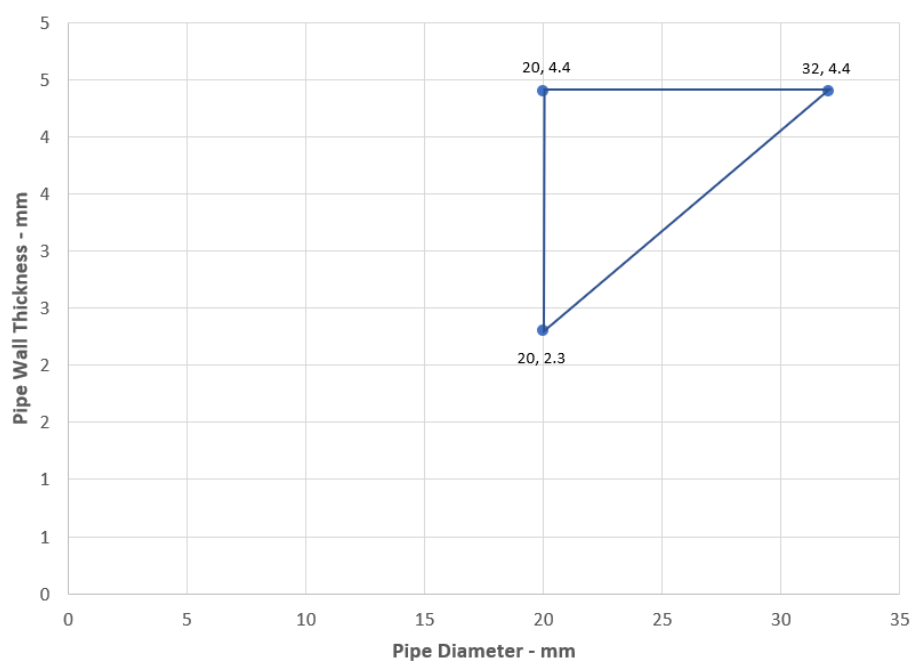
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PVC-U Pipes - U/C



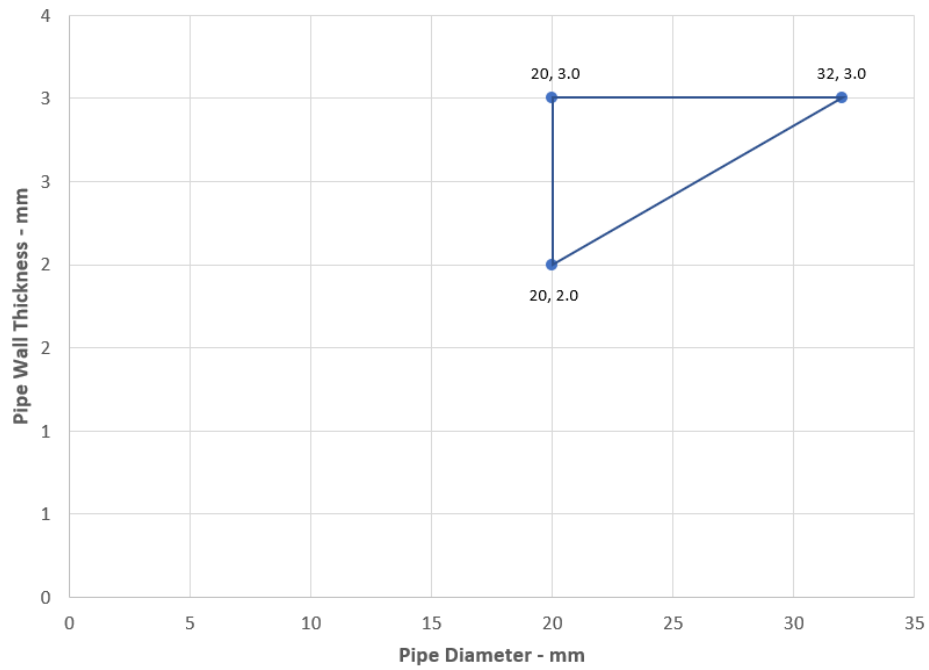
PP Pipes - EI 30 U/C



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PE Pipes - EI 30 U/C



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

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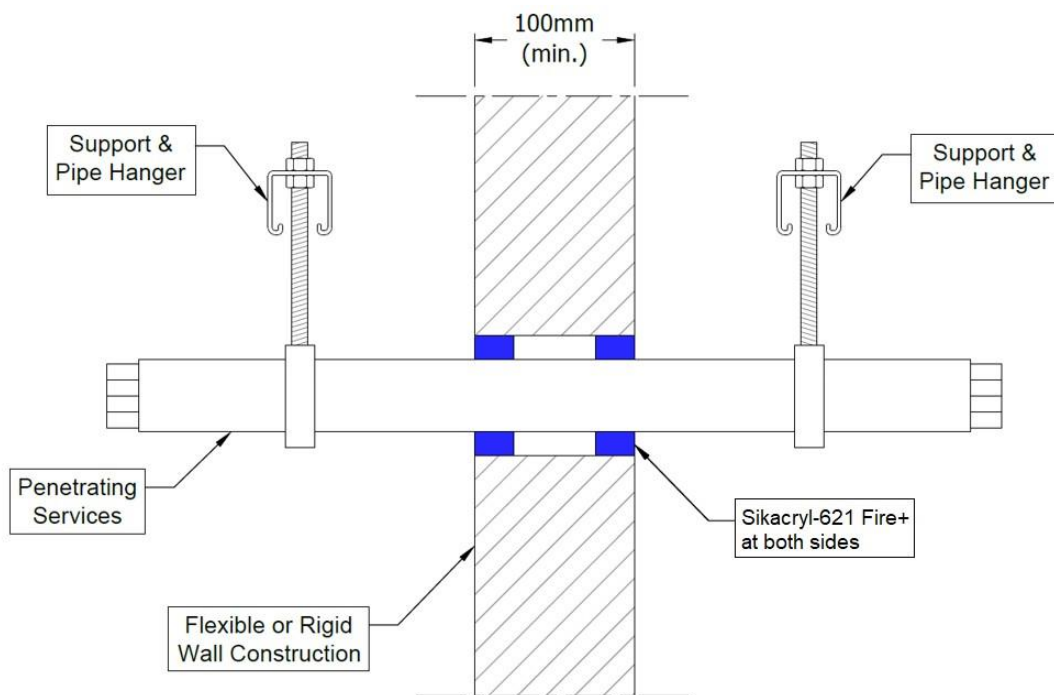
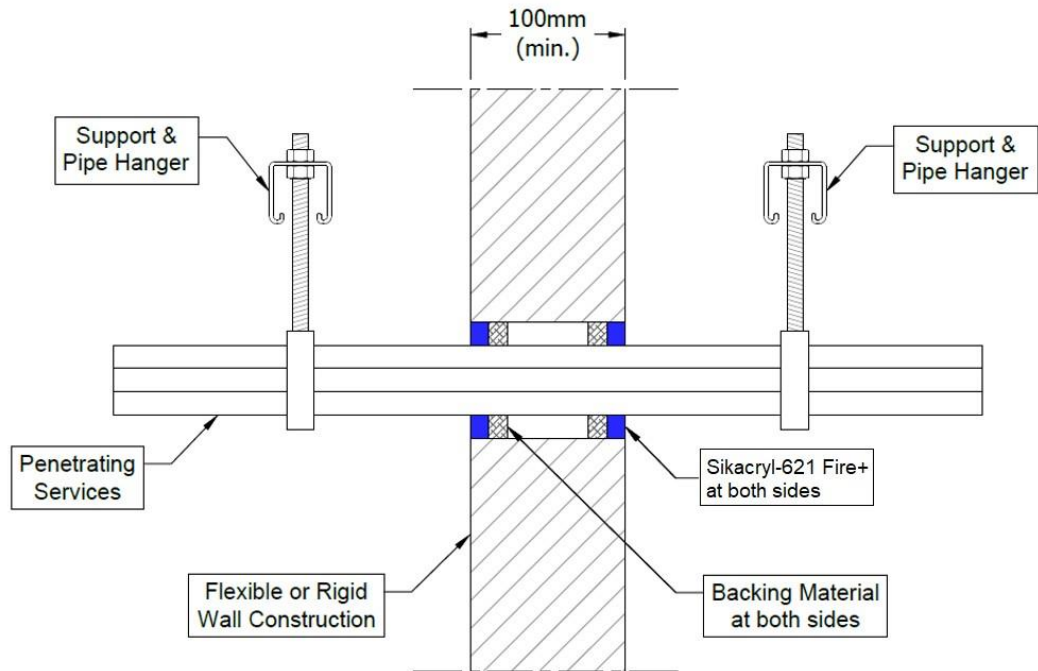


A.3 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 100 mm

A.3.1 Double side penetration seal with cables

Penetration Seal: Cables (single or bundles up to 100 mm $\varnothing$) and conduits fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall.

Construction details:



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.1.1

Services	Sealant depth	Backing	Maximum aperture	Classification
None (blank)	12.5 mm	Stone wool 20 mm deep 35-140 kg/m ³	300 x 300 mm*	EI 120
Cables up to 21 mm Ø, single or in bundles up to 50 mm Ø	12.5 mm	Stone wool 12.5 mm deep min. 33 kg/m ³		E 120, EI 90
Electrical cables up to 21 mm Ø, single or in bundles up to 100 mm Ø	25 mm	Stone wool 20 mm deep min. 40 kg/m ³		EI 120
Electrical cables up to 80 mm Ø, single or in bundles up to 100 mm Ø		25 mm AES Fibre ≥ 128kg/m ³		E 120, EI 60
Single 'E cable' - 1 x 185 mm ² core HD603.3 electrical cable with PVC insulation, PVC sheath and 23-27 mm diameter	12.5 mm	Stone wool 20 mm deep min. 140 kg/m ³		E 120, EI 60
Single or bundled electrical cables up to 21 mm Ø, with or without trays	12.5 mm	25 mm AES Fibre ≥ 128kg/m ³	600 x 600 mm	E 90, EI 60
Single or bundled electrical cables up to 80 mm Ø, with or without trays				E 90, EI 30
Single or bundled electrical conduits up to 32 mm Ø, with or without trays				E 60, EI 45

* Or 30 mm wide x 3000 mm high for cables up to 21 mm Ø

Services	Sealant depth	Backing	Maximum Annular space	Classification
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1				
Maximum diameter 40 mm, wall thickness 1.0-1.9 mm for PVC pipes, fully or partially filled conduits with cables up to 21 mm diameter	25 mm	none	30 mm	EI 120 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				
Maximum diameter 40 mm, wall thickness 2.0-3.0 mm for PE pipes, fully or partially filled conduits with cables up to 21 mm diameter	25 mm	none	30 mm	EI 90 U/C
PP pipe according to EN 1852-1: 2009 or DIN 8077/8078				
Maximum diameter 40 mm, wall thickness 1.8-2.2 mm for PP pipes, fully or partially filled conduits with cables up to 21 mm diameter	25 mm	none	30 mm	EI 90 U/C

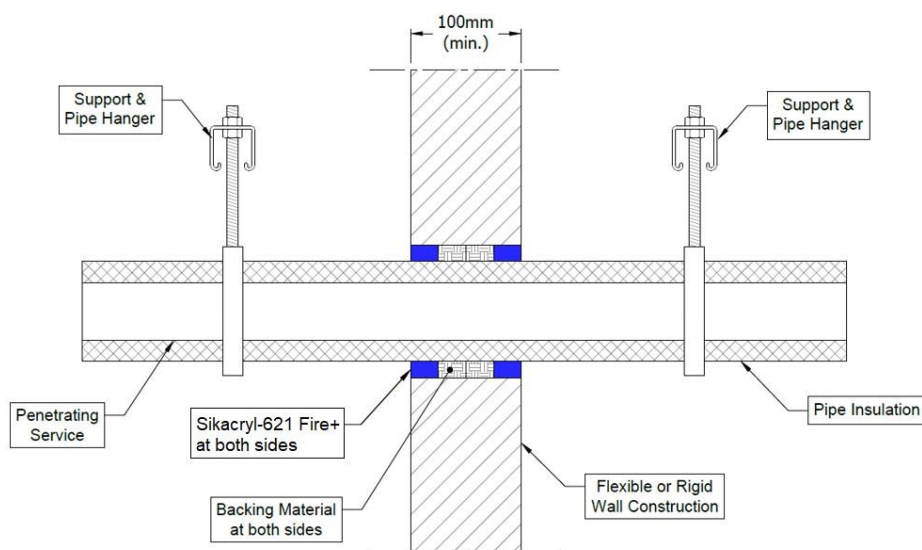
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.2 Double side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, backed with stone wool insulation or AES Fibre $\geq 128\text{kg/m}^3$, 300 x 300 mm maximum seal size.

Construction details:



A.3.2.1

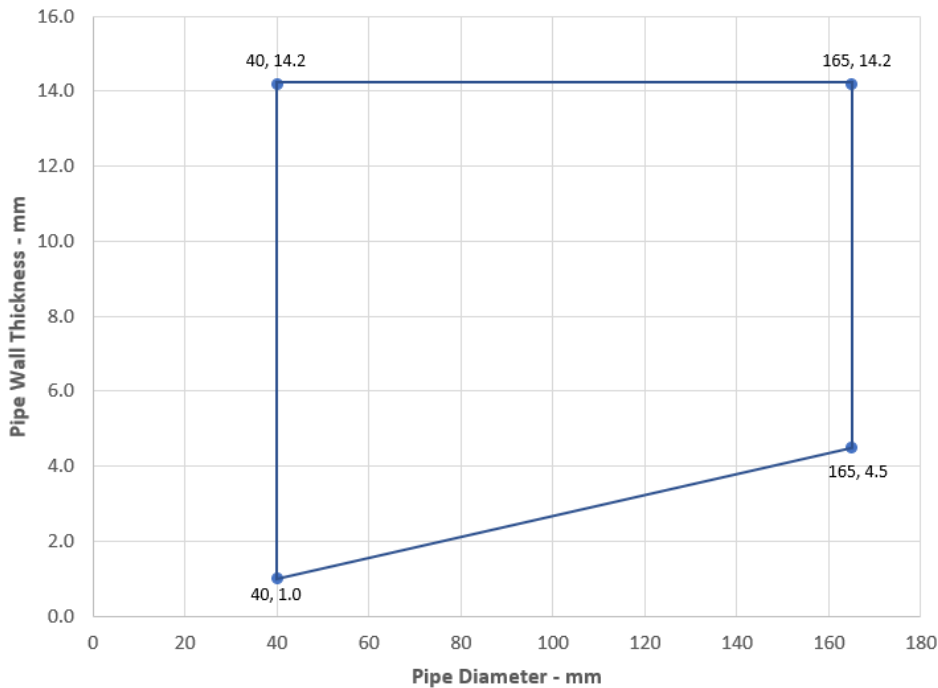
Services	Sealant depth	Backing (minimum)	Insulation	Classification
Mild or stainless steel pipe				
22 mm diameter/3-10 mm wall	25 mm	Stone wool 25 mm deep 35 kg/m ³	None	EI 120 C/C
Maximum 165 mm diameter/ wall*	12.5 mm	12.5 mm stone wool 33 kg/m ³	9 mm Elastomeric insulation minimum class D-s3, d0	E 90 C/U EI 45 C/U
			13 -25 mm Elastomeric insulation minimum class D-s3, d0	EI 60 C/U
40 mm diameter/1-14.2 mm wall*	12.5 mm	20 mm Stone wool 40 kg/m ³		EI 120 C/C
40 mm diameter/1-14.2 mm wall*	25 mm	25 mm AES Fibre ≥ 128kg/m ³	13 -19 mm Elastomeric insulation minimum class B-s3,d0	E 120 C/C 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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Elastomeric Insulation - C/U



Declaration of Performance
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

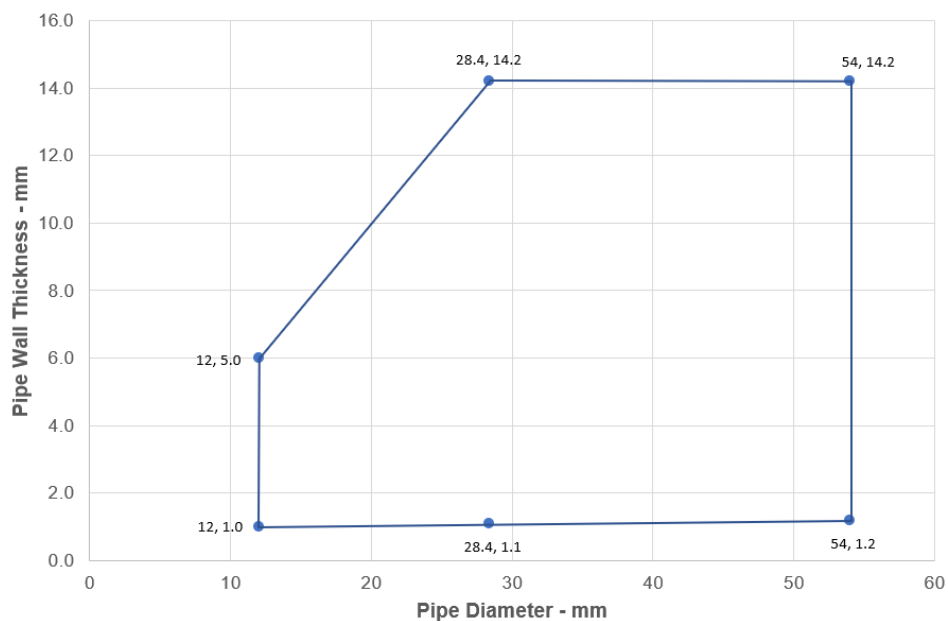
Services	Sealant depth	Backing	Insulation	Classification
Copper or steel pipe				
12 mm diameter/1-6 mm wall	25 mm	25 mm AES Fibre ≥ 128kg/m³	9 mm Elastomeric insulation minimum class B-s3,d0	EI 120 C/C
12-54 mm diameter/1-14.2 mm wall*			9-18 mm Elastomeric insulation minimum class B-s3,d0	E 120 C/C, EI 60 C/C
12-54 mm diameter/1-14.2 mm wall*			19 mm Elastomeric insulation minimum class B-s3,d0	E 120 C/C, EI 90 C/C
12-54 mm diameter/1-14.2 mm wall*			20-25 mm Elastomeric insulation minimum class B-s3,d0	EI 60 C/C
15-54 mm diameter/0.7-14.2 mm wall*		None required	15 mm Phenolic foam insulation	E 120 C/C, EI 60 C/C
15-54 mm diameter/0.7-14.2 mm wall*			16-30 mm Phenolic foam insulation	E 90 C/C, EI 60 C/C
15-159 mm diameter/0.7-14.2 mm wall*			15-100 mm Phenolic foam insulation	E 45 C/C, EI 30 C/C
15-159 mm diameter/0.7-14.2 mm wall*		25 mm around one layer of SikaSeal-629 Fire Wrap+ (1.8 x 50 mm)	100 mm Phenolic foam insulation	EI 60 C/C
Alupex Composite Pipe				
16 mm diameter/ wall*	12.5 mm	12.5 mm stone wool 33 kg/m³	9 mm Elastomeric insulation minimum class D-s3, d0	E 120 C/C EI 90 C/C
Maximum 75 mm diameter/ wall*				E 60 C/C EI 45 C/C
			13-24 mm Elastomeric insulation minimum class D-s3, d0	E 90 C/C EI 60 C/C
			25 mm Elastomeric insulation minimum class D-s3, d0	EI 90 C/C
16 mm diameter/2.25 mm wall	25 mm	25 mm AES Fibre ≥ 128kg/m³	9 mm Elastomeric insulation minimum class B-s3,d0	EI 120 C/C
16 mm diameter/2.25 mm wall			9-25 mm Elastomeric insulation minimum class B-s3,d0	EI 60 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				

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

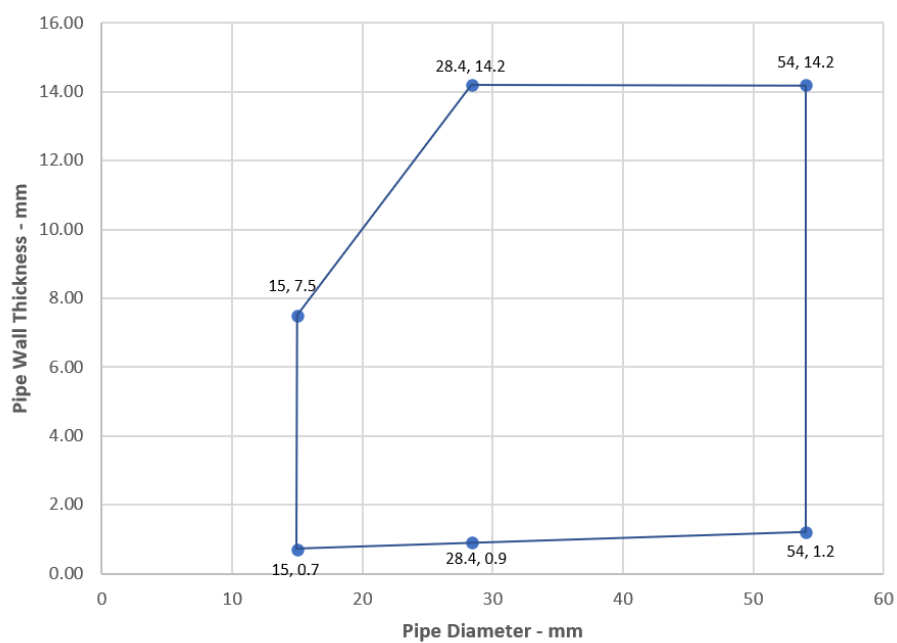
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Elastomeric Insulation - C/C



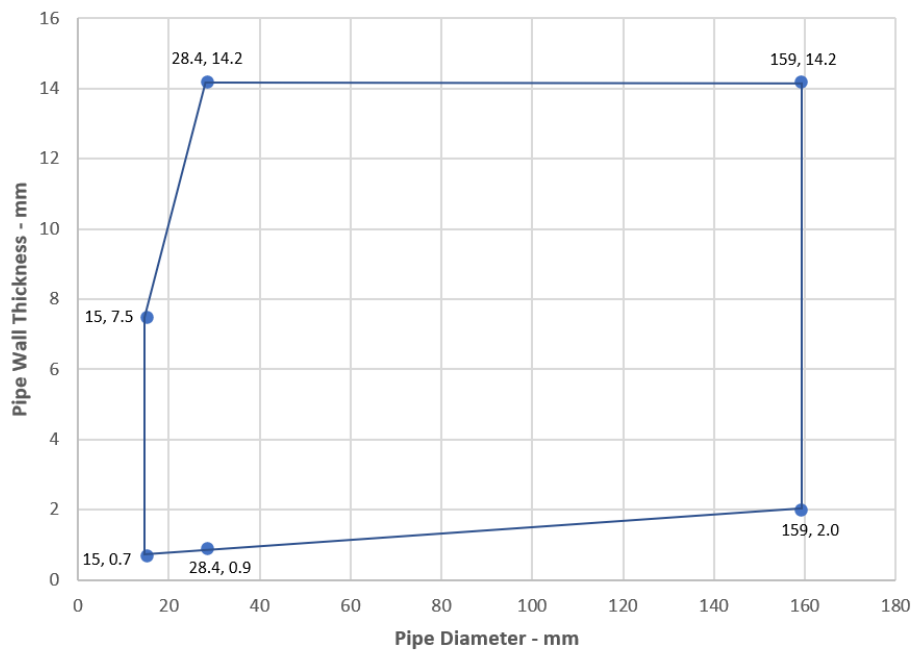
Copper or Steel Pipes with Phenolic Foam Insulation - C/C



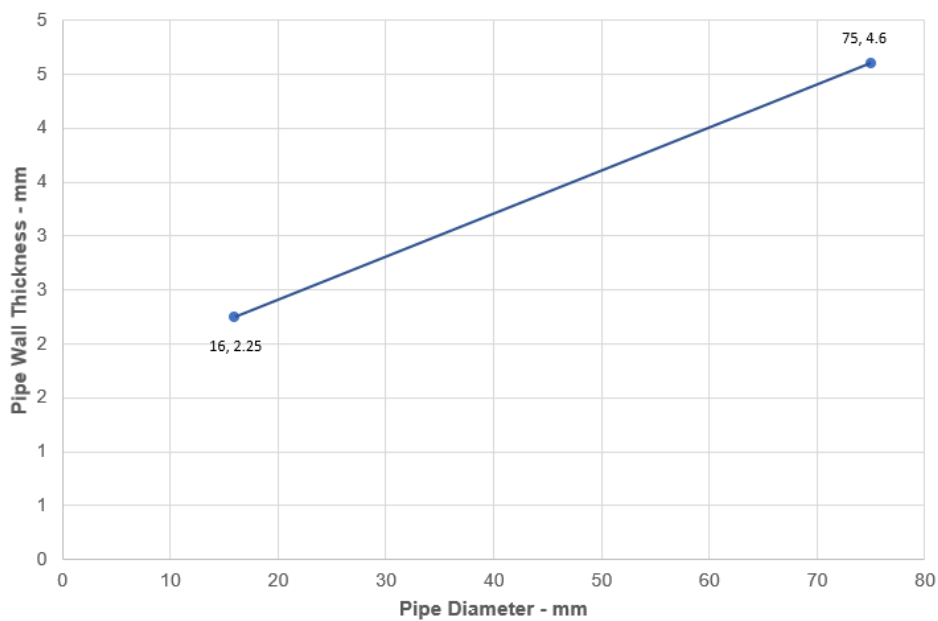
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Phenolic Foam Insulation - C/C



Alupex Pipes with Elastomeric Insulation - C/C



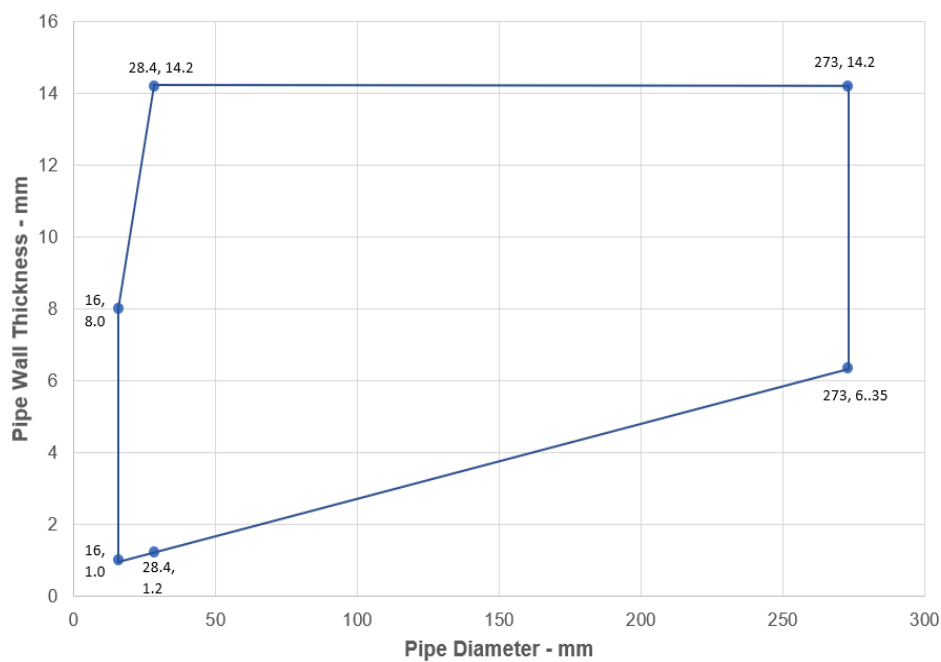
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Mild or stainless steel pipe				
16 mm diameter/ wall*	25 mm	None	15 mm thick phenolic insulation	EI 90 C/U
Maximum 273 mm/ wall*			25 mm thick phenolic insulation	E 90 C/U, EI 60 C/U
			26-100 mm thick phenolic insulation	EI 60 C/U

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

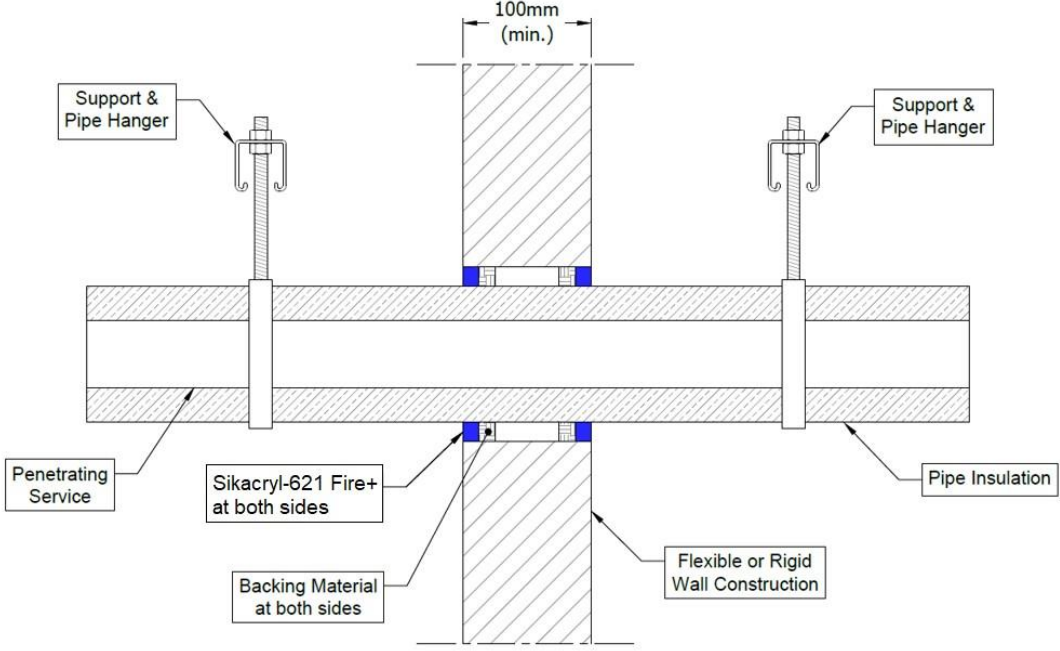
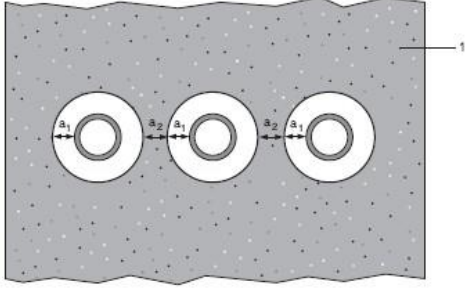
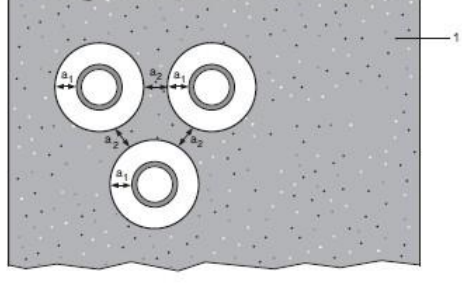
Steel Pipes with Phenolic Insulation - C/U



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.3 Double side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 12.5 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 12.5 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 504 mm Ø	
Construction details: 	
Configuration 1: Option 1 	Configuration 2: Option 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

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

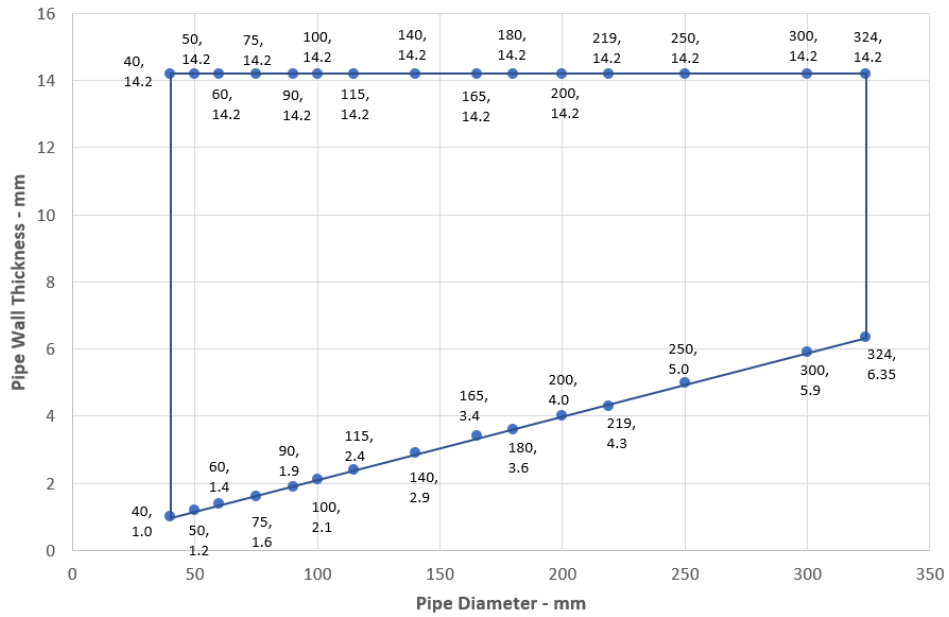
A.3.3.1 Double side penetration seal with pipes

Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	E 120 C/U EI 90 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	
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*		
12 mm diameter/0.6-6.0 mm wall	20 mm thick glass or stone, mineral wool min. 75 kg/m ³ (CS, or LS at 550 mm each side)	EI 60 C/C
40 mm diameter/1.1-14.2 mm wall*	30-60 mm thick glass or stone, mineral wool min. 75 kg/m ³ (CS, or LS at 550 mm each side)	
50 mm diameter/1.3-14.2 mm wall*		
60 mm diameter/1.4-14.2 mm wall*		
75 mm diameter/1.7-14.2 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/2.8-14.2 mm wall*		
165 mm diameter/ 3.2-14.2 mm wall*		
180 mm diameter/ 3.5-14.2 mm wall*		
200 mm diameter/ 3.8-14.2 mm wall*		
219 mm diameter/ 4.1-14.2 mm wall*		
250 mm diameter/ 4.6-14.2 mm wall*		
273 mm diameter/ 5.0-14.2 mm wall*		

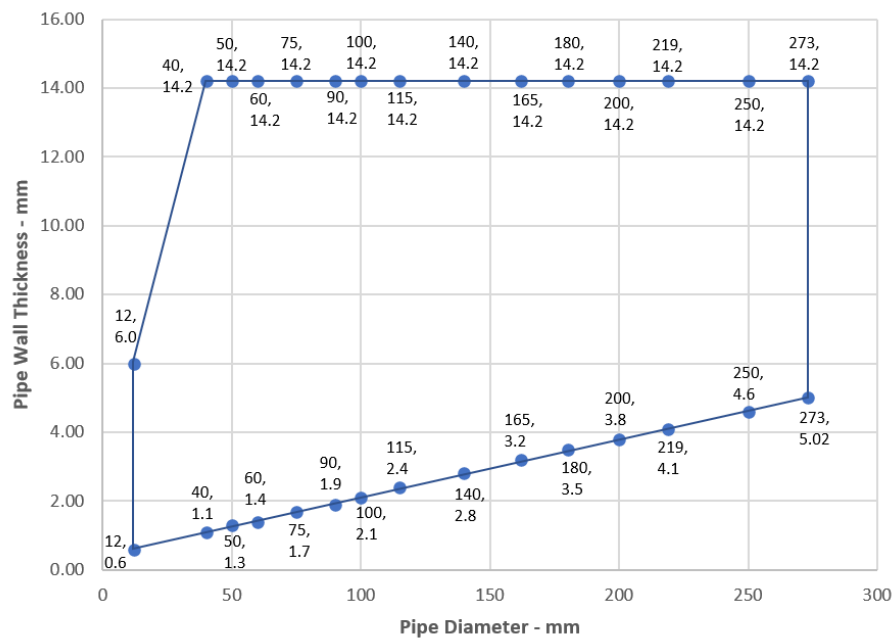
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Mineral Wool Insulation - C/U



Steel Pipes with Glass or Stone Wool Insulation - C/C

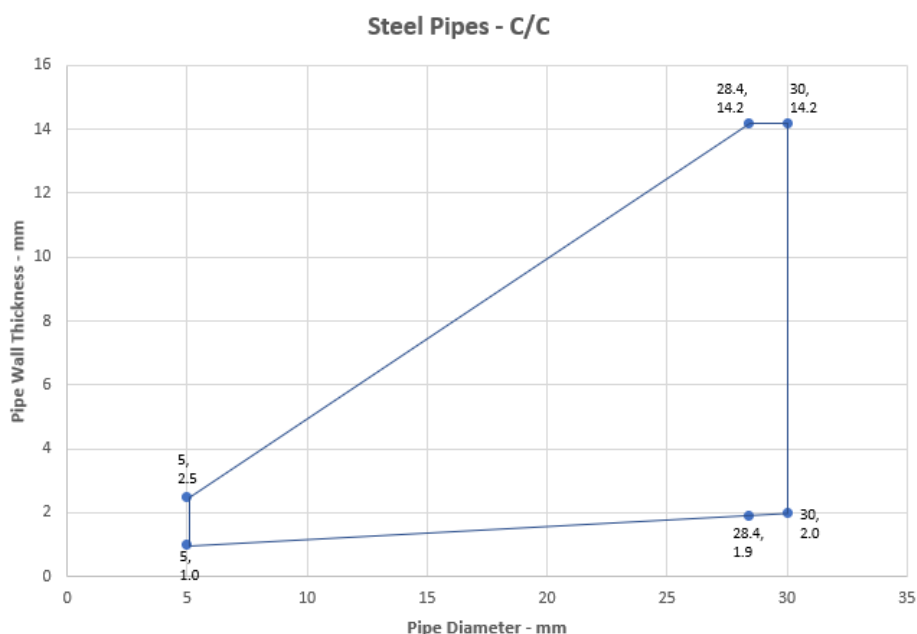


Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Insulation	Classification
PEX pipe in pipe system		
15 mm diameter x 2.5 mm wall inner /25mm diameter outer	None	EI 120 C/C
Alupex pipe		
16-20 mm diameter/2.0 mm wall	None	EI 120 C/C
16-75 mm diameter/2.25-4.6 mm	20-50 mm thick glass wool or stone, mineral wool min. 75 kg/m ³	EI 120 C/C
16-75 mm diameter/2.25-4.7 mm	60 mm thick glass wool or stone, mineral wool min. 75 kg/m ³	EI 60 C/C
Mild or Stainless Steel pipe		
4 mm diameter/1.0-2.0 mm wall	None	EI 90 C/C
5-30 mm diameter/1.0-14.2 mm wall*		
30 mm diameter/2.0-14.2 mm wall		EI 120 C/U
Copper or Steel pipe		
6-12 mm diameter/0.7-6.0 mm wall*	None	E 90 C/C, EI 60 C/C
13-22 mm diameter/0.7-11 mm wall*		E 90 C/C, EI 30 C/C
12-54 mm diameter/0.9-14.2 mm wall*	20-80 mm thick stone, mineral wool min. 80 kg/m ³	E 120 C/C, EI 60 C/C
12-54 mm diameter/0.6-14.2 mm wall*	20-60 mm thick glass wool or stone, mineral wool min. 75 kg/m ³ (CS, or LS at 550 mm each side)	EI 60 C/C

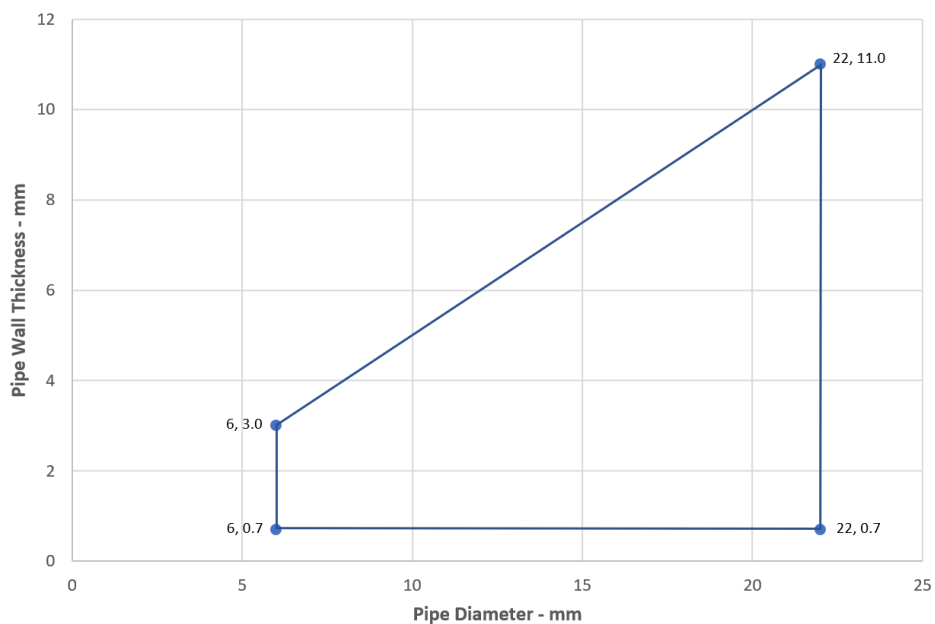
* See below graphs for interpolated pipe sizes



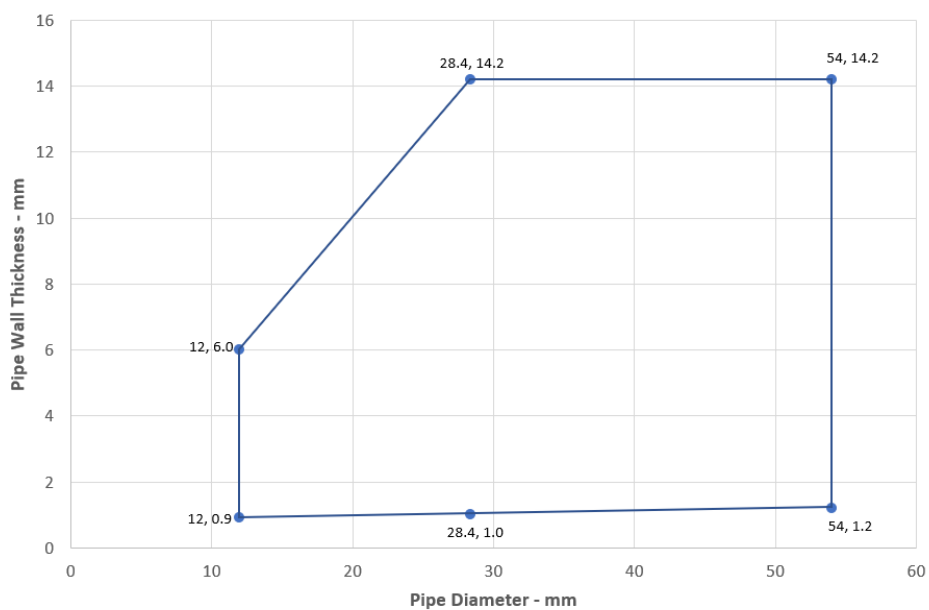
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes - C/C



Copper or Steel Pipes with Mineral Wool Insulation - C/C



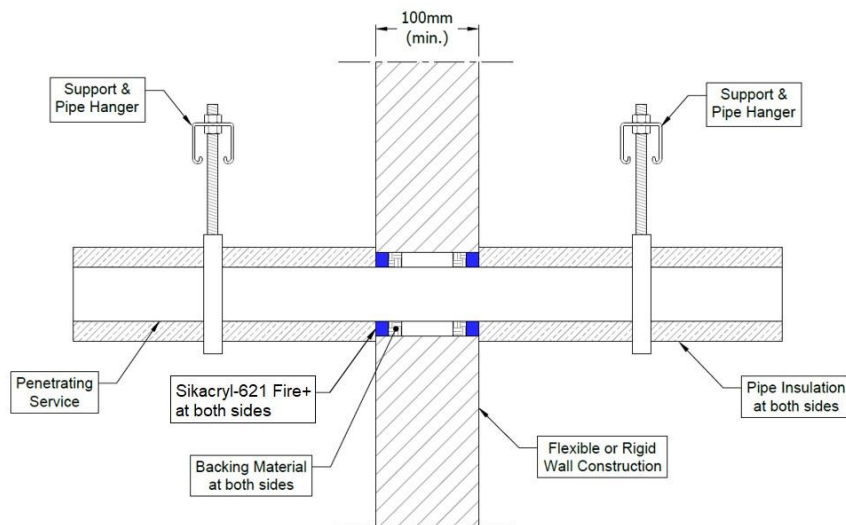
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.4 Double side penetration seal with composite pipes

Penetration Seal: CI (Continuous Interrupted) or LI (Locally Interrupted) insulated composite pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, minimum 10 mm seal width around service, maximum seal size 300 x 300 mm, backed with stonewool.

Construction details:



3.4.1

Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 mm wall	12.5 mm	12.5 mm stonewool 40 kg/m ³	20 mm stonewool 80 kg/m ³ , 500 mm length from both sides of the seal	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				
16 mm diameter/2.25 mm wall	12.5 mm	12.5 mm stonewool 33 kg/m ³	20 mm glass wool 75 kg/m ³ , 500 mm length from both sides of the seal	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				

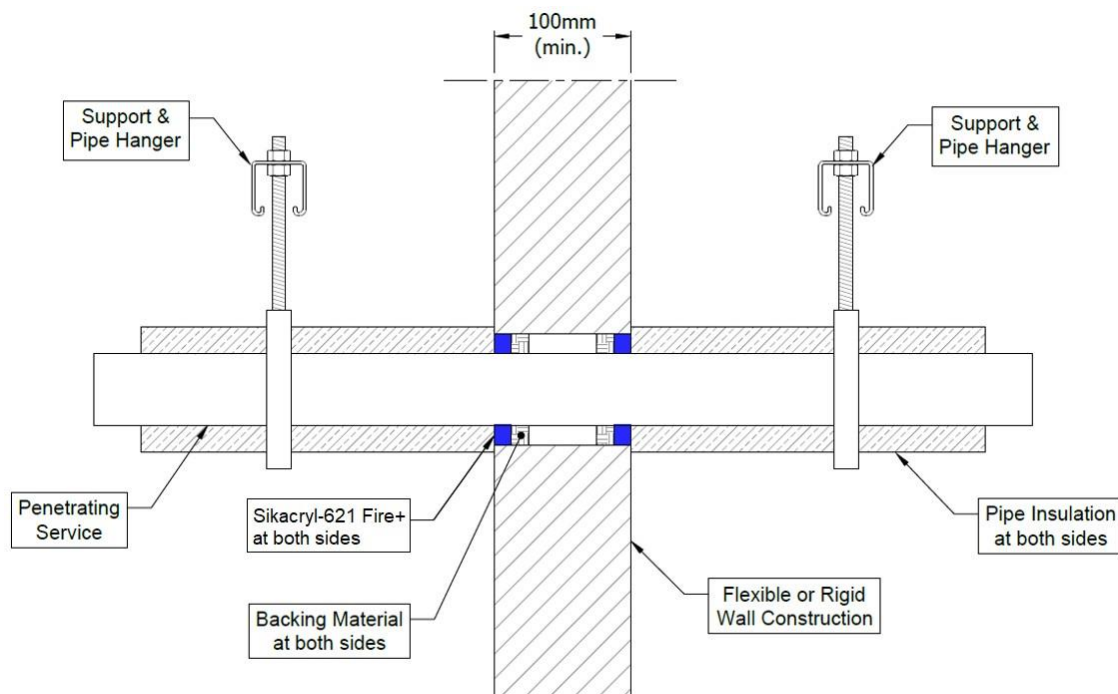
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.5 Double side penetration seal with metallic (and composite) pipes

Penetration Seal: LI (Local Interrupted) of minimum length stated below or CI (Continuous Interrupted) insulated metallic pipes and composite (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, min. 10 mm seal width around service, backed with stone wool insulation or AES Fibre $\geq 128\text{kg/m}^3$.

Construction details:



A.3.5.1

Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Maximum aperture size 300 x 300 mm				
Copper or steel pipe up to 54 mm diameter/1-14.2 mm wall	12.5 mm	20 mm Stone wool 40 kg/m ³	500 mm length of 20 mm stone wool 80 kg/m ³	EI 120 C/U
Copper or steel pipe up to 159 mm diameter/0.6-14.2 mm wall		12.5 mm stone wool 33 kg/m ³	1000 mm length of 30 mm stone wool 80 kg/m ³	EI 60 C/C
Copper or steel pipe up to 54 mm diameter/0.6-14.2 mm wall		12.5 mm stone wool 33 kg/m ³	500 mm length of 20 mm glass wool 75 kg/m ³	E 120 C/C, EI 60 C/C
Copper or steel pipe up to 108 mm diameter/0.6-14.2 mm wall		12.5 mm stone wool 33 kg/m ³	500 mm length of 30 mm glass wool 75 kg/m ³	E 120 C/C, EI 30 C/C
Alupex composite pipe 75 mm diameter/7.5 mm wall		20 mm Stone wool 140 kg/m ³	600 mm length of 25 mm AES Fibre $\geq 128\text{kg/m}^3$	EI 60 C/U

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

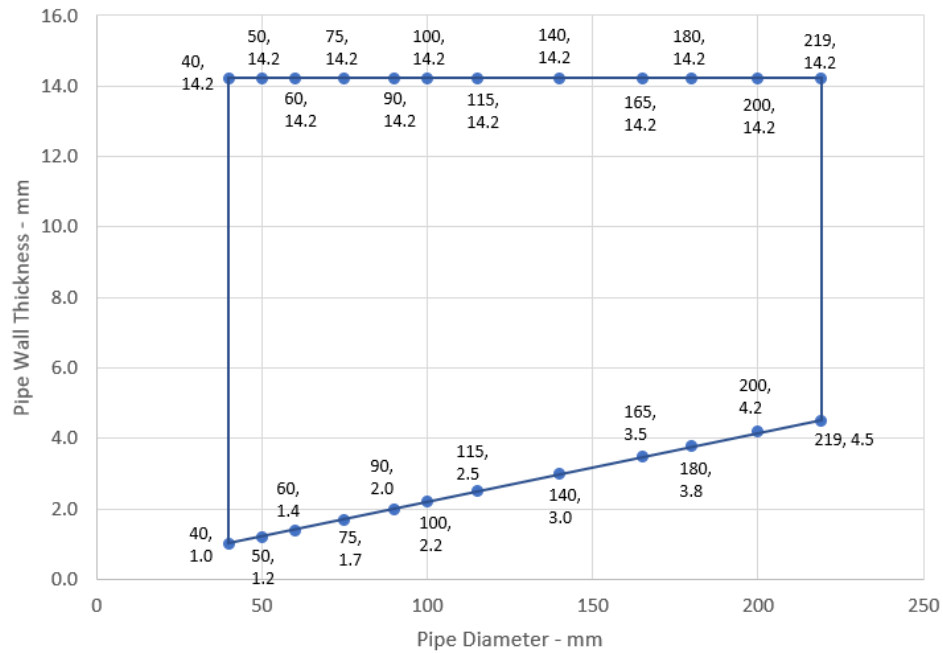
Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Mild or stainless steel pipe				
Maximum aperture size 300 x 300 mm				
40 mm diameter/1-14.2 mm wall	12.5 mm	20mm Stone wool 40 kg/m ³	500 mm length of 20 mm stone wool 80 kg/m ³	EI 120 C/U
40 mm diameter/1-14.2 mm wall*			500 mm length of 30 mm stone wool 80 kg/m ³	E 120 C/U, 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/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*	12.5 mm	20mm Stone wool 40 kg/m ³	500 mm length of 30 mm stone wool 80 kg/m ³	E 120 C/U, EI 90 C/U
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				
12 mm diameter/0.6-6.0 mm wall	12.5 mm	12.5mm Stone wool 33 kg/m ³	500 mm length of 30 mm glass wool 75 kg/m ³	E 120 C/C, EI 60 C/C
40 mm diameter/1.1-14.2 mm wall*				
50 mm diameter/1.3-14.2 mm wall*				
60 mm diameter/1.4-14.2 mm wall*				
75 mm diameter/1.7-14.2 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/2.8-14.2 mm wall*				
165 mm diameter/3.2-14.2 mm wall*				
180 mm diameter/3.5-14.2 mm wall*				
200 mm diameter/3.8-14.2 mm wall*				
219 mm diameter/4.1-14.2 mm wall*				
273 mm diameter/5.0-14.2 mm wall*				

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

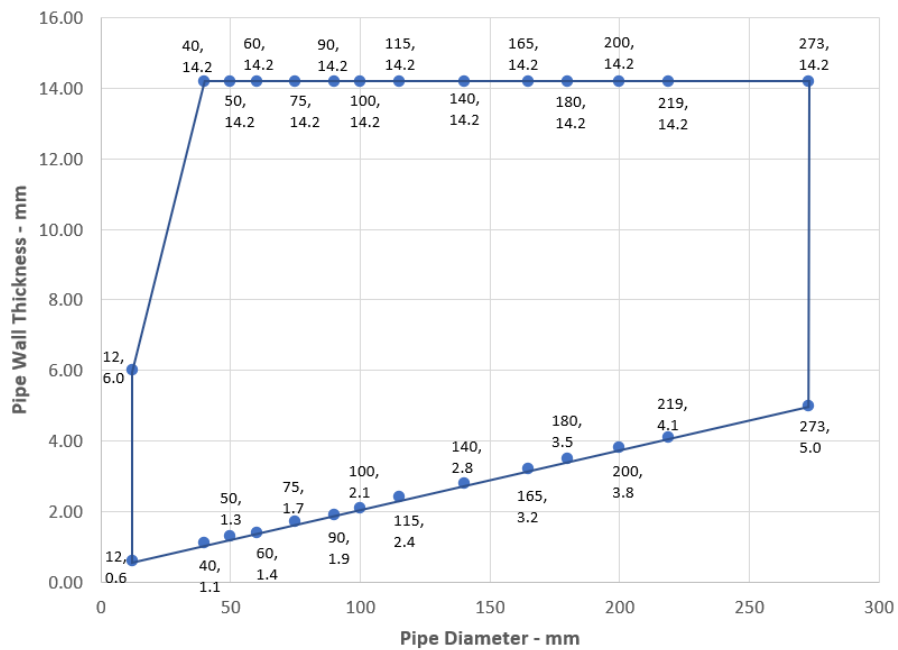
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Mineral Wool Insulation - C/U



Steel Pipes with Glass Wool Insulation - C/C



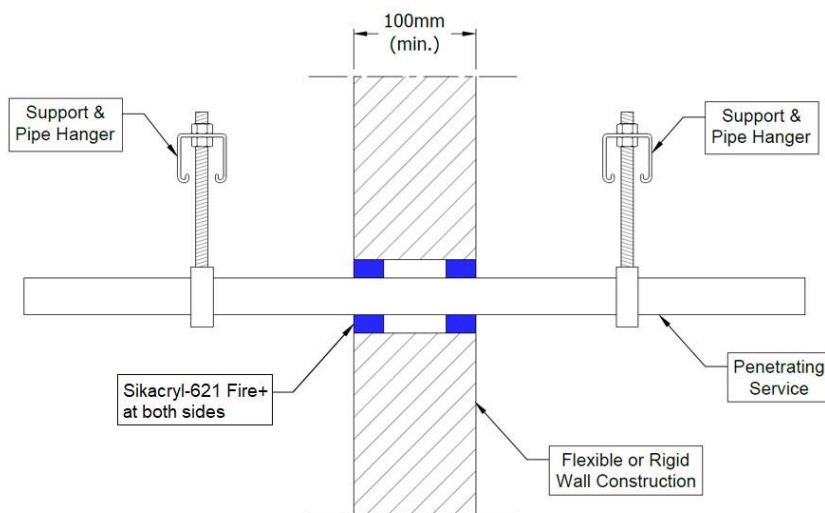
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.3.6 Double side penetration seal with plastic pipes

Penetration Seal: Combustible pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, Minimum annular space 10 mm and minimum separation between penetration seals 30 mm (a2).

Construction details:



A.3.6.1

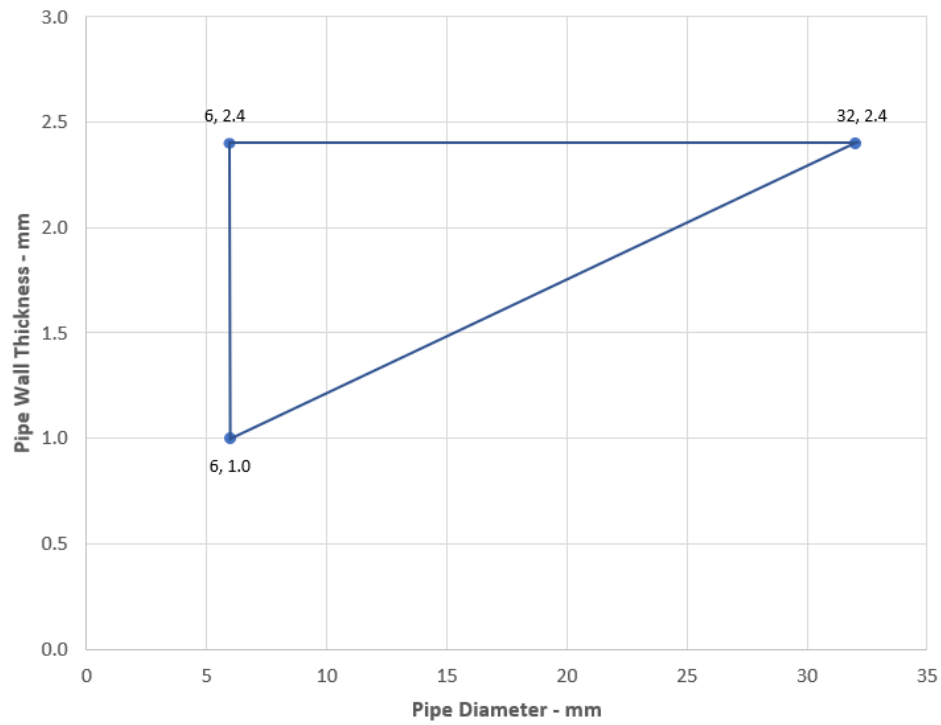
Pipe material	Sealant depth	Pipe size	Maximum Annular space	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1	25 mm	6-32 mm Ø/1.0-2.4 mm wall*	10 mm	EI 120 U/C
		6-32 mm Ø/1.0-1.6 mm wall	30 mm	E 120 U/C, EI 90 U/C
20 mm Ø/2.2 mm wall		EI 120 C/C		
PP pipe according to EN 1451-1 or DIN 8077/8078		20 mm Ø/2.2-4.4 mm wall	30 mm	EI 120 U/C
		20-32 mm Ø/1.8-4.4 mm wall		EI 60 U/C
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		20 mm Ø/2.0 mm wall	30 mm	EI 60 C/C
		20-32 mm Ø/2.0-3.0 mm wall	30 mm	EI 120 U/C
Uponor Wirsbo PEX pipe in pipe system according to ISO 15875		Diameter up to 54 mm/0.4 mm wall thickness (outer pipe), 28 mm diameter/4.0 mm wall thickness (inner pipe)	30 mm	EI 90 C/C
Insulated pipe in pipe system according to ISO 15875		Diameter up to 34 mm/1.0 mm wall thickness (outer pipe), 22 mm diameter/3.0 mm wall thickness (inner pipe), insulated with 9 mm thick polyethylene foam	30 mm	E 60 C/C, EI 45 C/C
			EI 45 C/C	

* See below graphs for interpolated pipe sizes

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PVC-U Pipes - U/C



Declaration of Performance

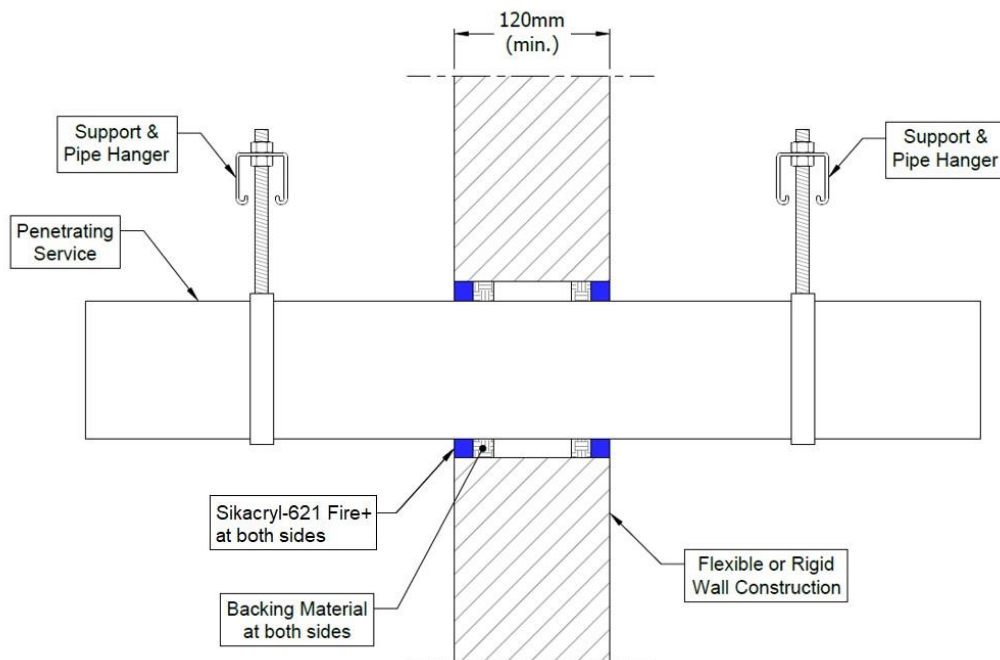
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74951760
2025.01. , ver. 1
1549

A.4 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 120 mm

A.4.1 Double side penetration seal with cables

Penetration Seal: Non-insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm deep Sikacryl-621 Fire+ to both sides of the wall, backed with stone wool insulation.

Construction details:



A.4.1.1

Services	Sealant depth	Backing	Classification
Mild or stainless steel pipe			
30 -324 mm diameter /1.6-14.2 mm wall	15 mm	15 mm stone wool	E 120 C/U
Copper or steel pipe			
12 -54 mm diameter /0.9-14.2 mm wall	15 mm	15 mm stone wool	E 120 C/C
Alupex Pipe			
16-75 mm diameter/2.0-4.6 mm wall	15 mm	15 mm stone wool	E 120 C/C, EI 30 C/C

Declaration of Performance

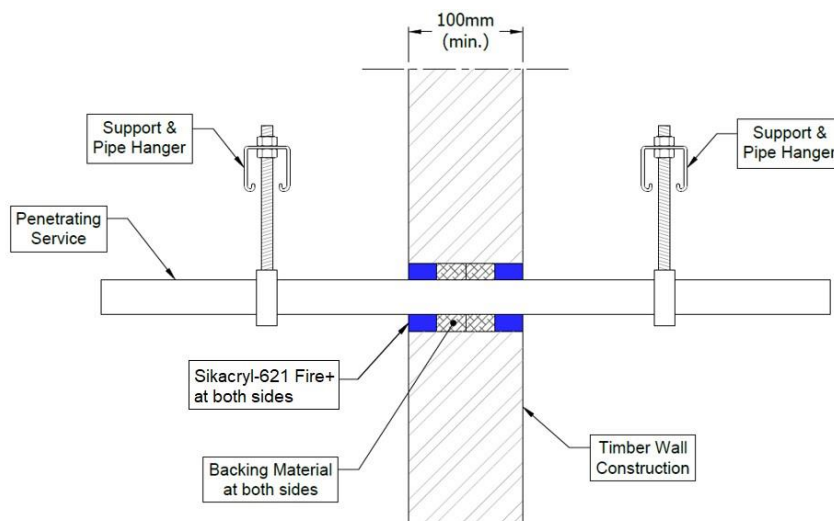
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74951760
2025.01. , ver. 1
1549

A.5. Timber wall constructions with wall thickness of minimum 100 mm

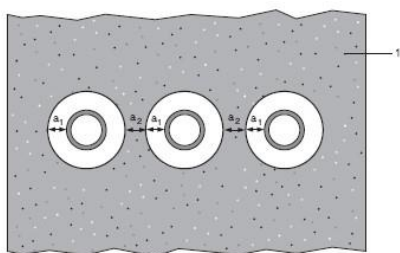
A.5.1 Double side penetration seal with cables

Penetration Seal: Cables fitted at any position within the aperture, sealed with Sikacryl-621 Fire+, minimum 25 mm deep to both sides of the wall and backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).

Construction details:



Configuration 1:



Key

1 Supporting construction

a1 Pipe / edge of seal separation (annular space)

a2 Separation between penetration seals

A.5.1.1

Services	Sealant depth	Backing	Maximum aperture	Classification
None (blank)	25 mm	Stone wool 25 mm deep min. 33kg/m ³	Ø 180 mm	EI 120
Cables up to 14 mm Ø, single or in bundles up to 100 mm Ø				EI 90
Cables up to 21 mm Ø, single or in bundles up to 100 mm Ø				E 90, EI 30
Cables up to 50 mm Ø, single or in bundles up to 100 mm Ø				E 90, EI 30
Telecom cables up to 14 mm Ø, single or in bundles up to 100 mm Ø				E 90, EI 60

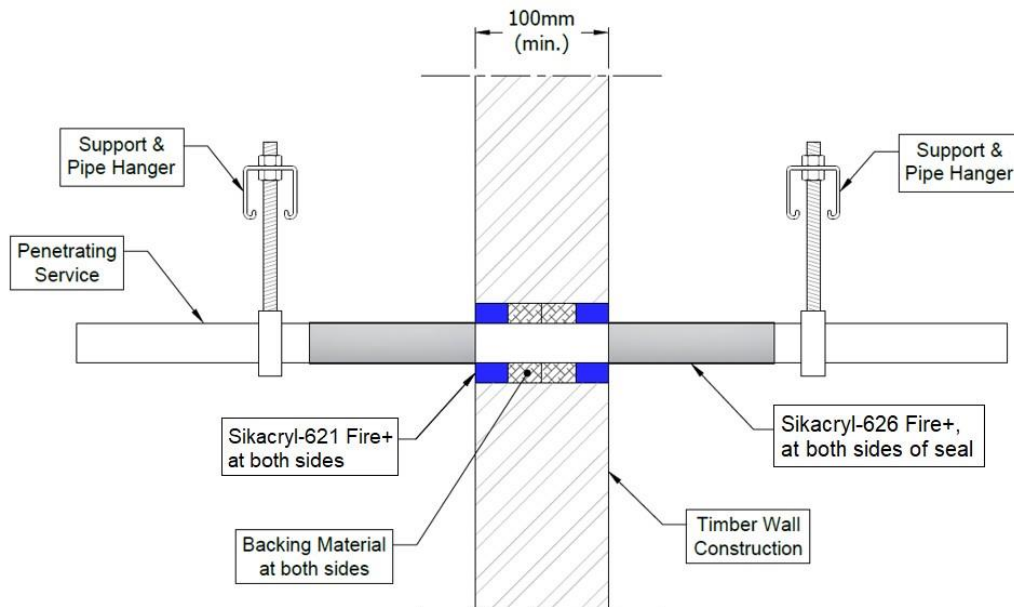
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

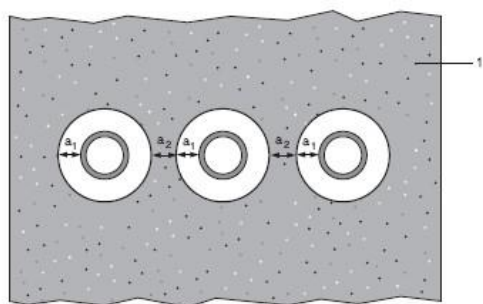
A.5.2 Double side penetration seal with cables and Sikacryl-626 Fire+

Penetration Seal: Cables fitted at any position within the aperture with Sikacryl-626 Fire+, sealed with Sikacryl-621 Fire+, minimum 25 mm deep to both sides of the wall and backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).

Construction details:



Configuration 1:



Key

- 1 Supporting construction
- a1 Pipe / edge of seal separation (annular space)
- a2 Separation between penetration seals

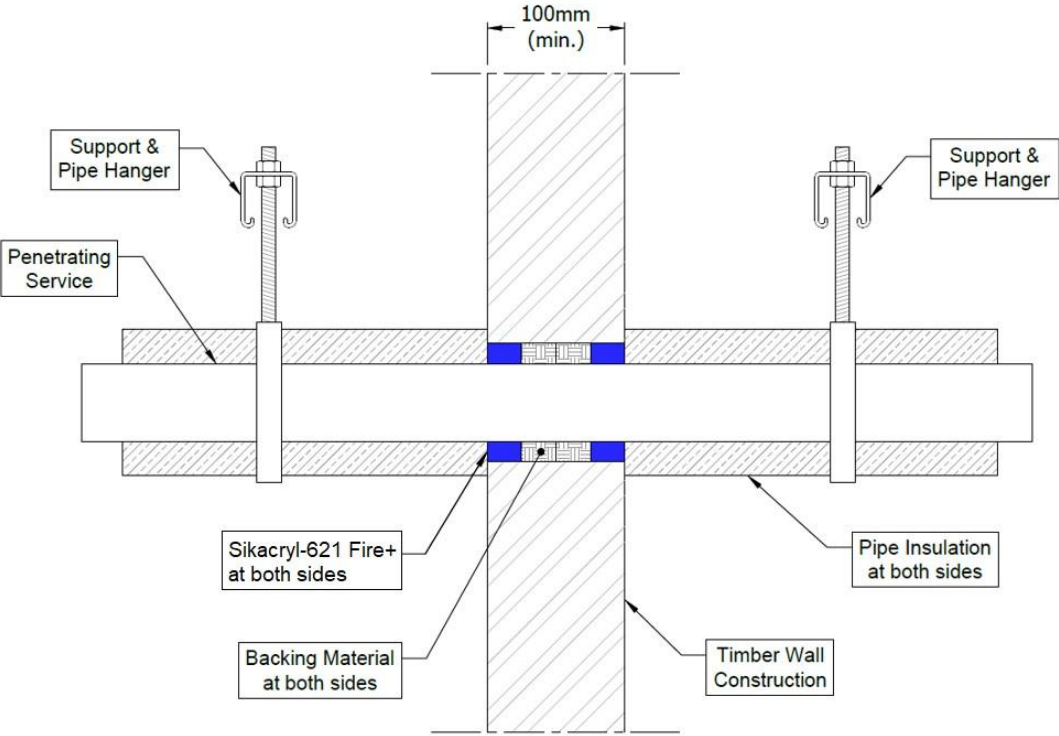
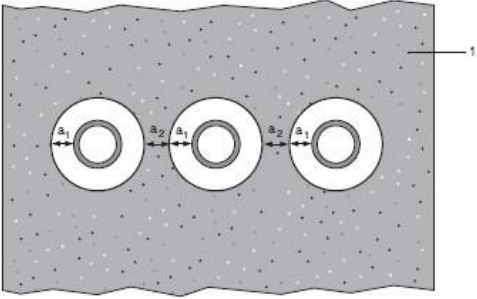
A.5.2.1

Services	Sealant depth	Backing	Maximum aperture	Insulation, minimum	Classification
None (blank)	25 mm	Stone wool 25 mm deep min. 33kg/m ³	Ø 180 mm	Sikacryl-626 Fire+, 260-micron DFT extending 150 mm from both sides of the seal	EI 120
Cables up to 21 mm Ø, single					EI 90
Cables up to 50 mm Ø, single or in bundles up to 100 mm Ø					E 90, EI 60

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.5.3 Double side penetration seal with metallic pipes

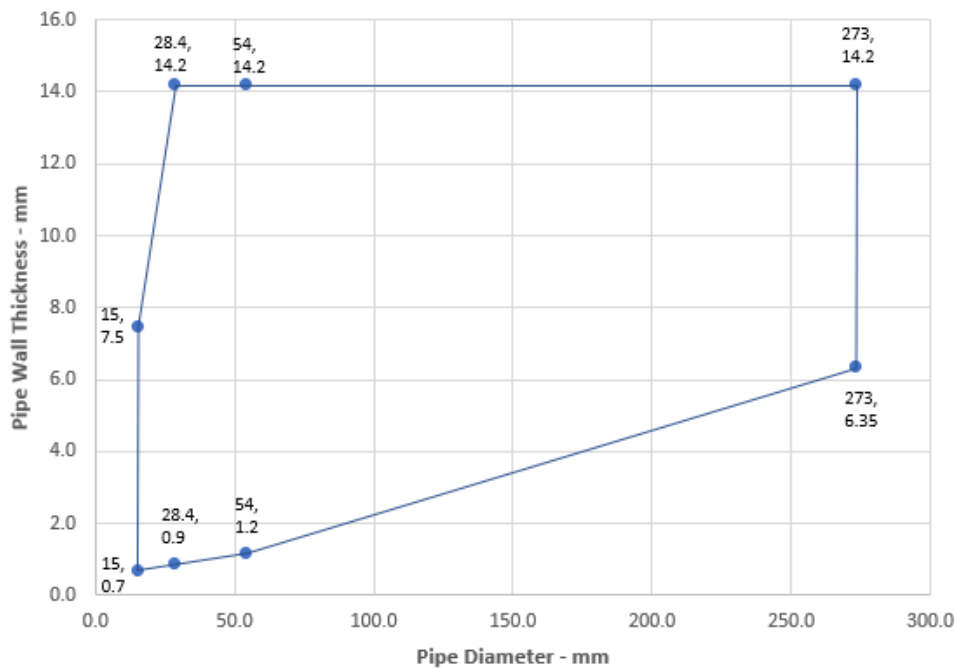
Penetration Seal: 500 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes and composite pipes (single) with glass wool or stone, mineral wool min. 75 kg/m³, fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
	Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals

A.5.3.1

Services	Maximum aperture	Sealant depth	Backing	Insulation, minimum	Classification
Mild or stainless steel pipe					
Maximum 273 mm diameter /6.35-14.2 mm wall*	Ø 293 mm	25 mm	Stone wool 25 mm deep min. 33kg/m ³	25 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 500 mm length from both sides of the seal	E 90 C/C, EI 60 C/C
Copper or steel pipe					
Maximum 54 mm diameter /1.2-14.2 mm wall*	Ø 180 mm	25 mm	Stone wool 25 mm deep min. 33kg/m ³	20 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 500 mm length from both sides of the seal	E 90 C/C, EI 60 C/C
Alupex Pipe					
Maximum 75 mm diameter/wall 2.25-4.6 mm wall*	Ø 180 mm	25 mm	Stone wool 25 mm deep min. 33kg/m ³	25 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 500 mm length from both sides of the seal	EI 90 C/C

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

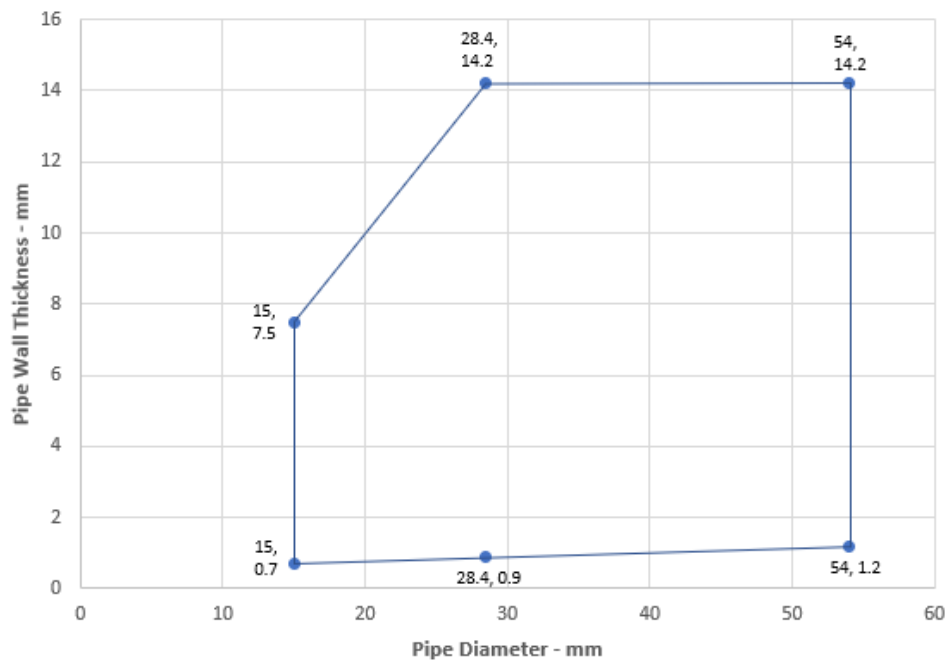
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



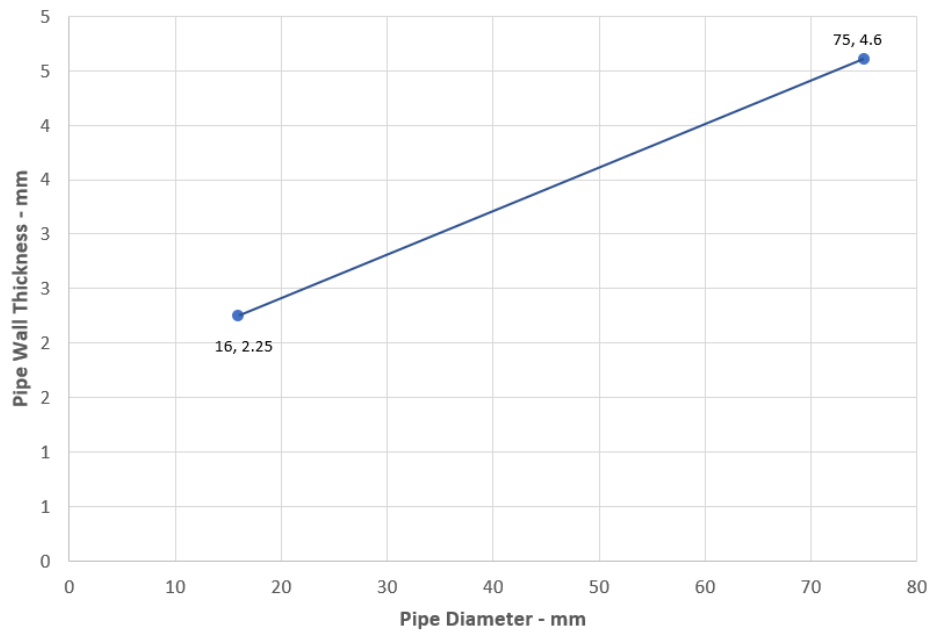
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



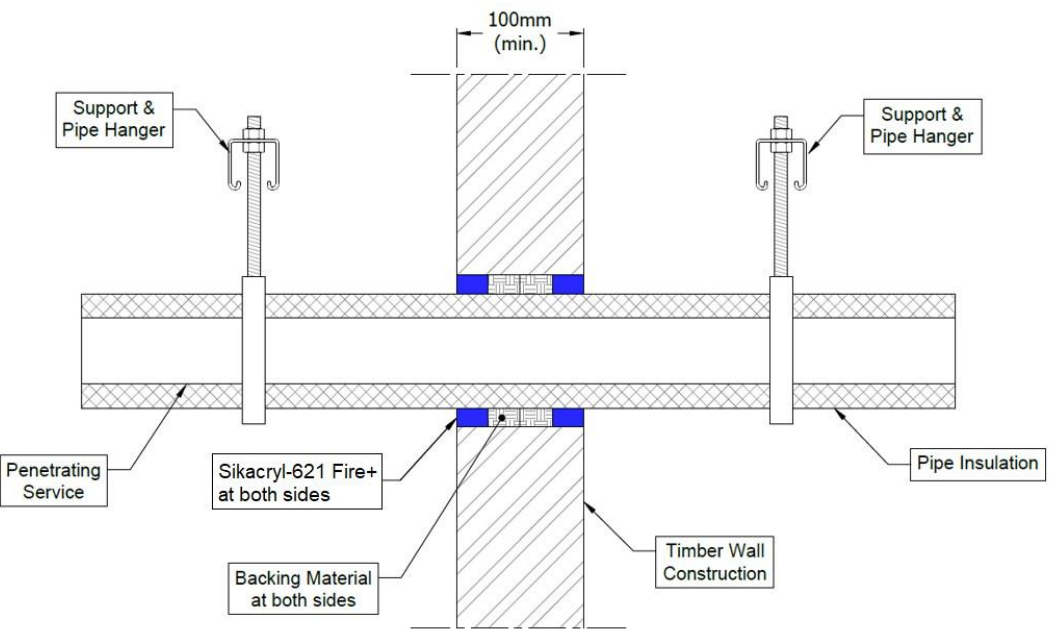
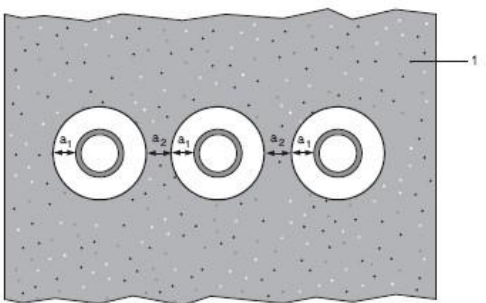
Alupex Pipes with Glass Wool or Mineral Wool Insulation - C/C



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.5.4 Double side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the wall, min. 10 mm seal width around service, backed with stone, mineral wool min. 33 kg/m³. Minimum annular space 10 mm and maximum 30 mm (a1), and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
	Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals

Declaration of Performance
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

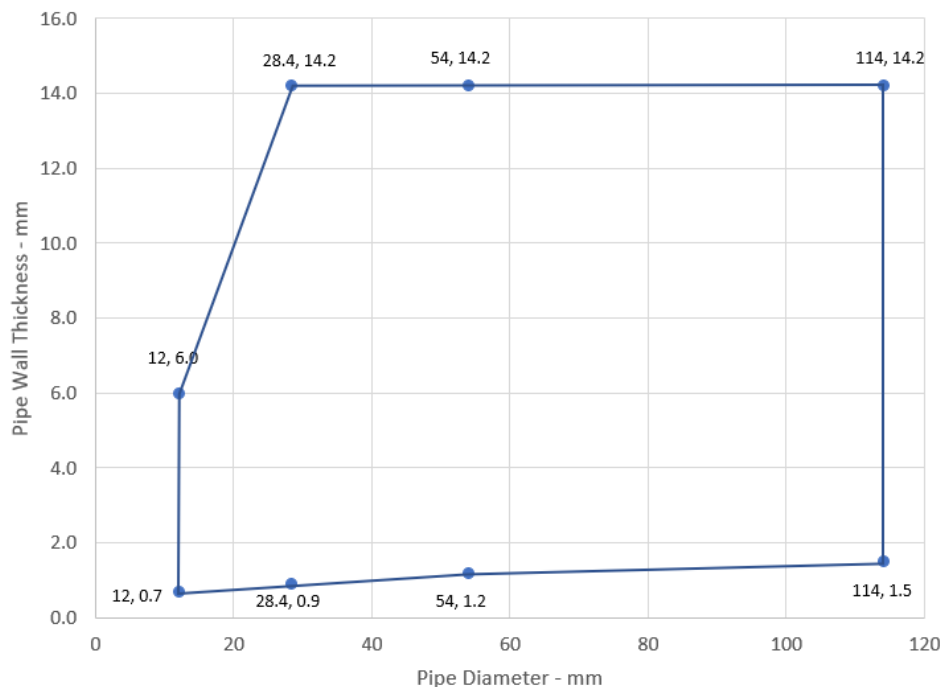
A.5.4.1

Services	Sealant depth	Backing	Insulation, minimum	Classification
Mild or stainless steel pipe				
Maximum 114 mm diameter /1.5-14.2 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	9-25 mm Elastomeric insulation minimum class D-s3, d0	EI 30 C/U
Copper or steel pipe				
Maximum 12 mm diameter /0.7-6 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	9 mm Elastomeric insulation minimum class D-s3, d0	E 90 C/C, EI 60 C/C
Maximum 54 mm diameter /1.2-14.2 mm wall*				E 60 C/C, EI 30 C/C
Maximum 54 mm diameter /1.2-14.2 mm wall*				10-25 mm Elastomeric insulation minimum class D-s3, d0
Alupex Pipe				
Maximum 16 mm diameter/wall 2.25 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	9 mm Elastomeric insulation minimum class D-s3, d0	EI 90 C/C
Maximum 75 mm diameter/wall 4.6 mm wall*				E 60 C/C, EI 45 C/C
Maximum 75 mm diameter/wall 4.6 mm wall*				10-25 mm Elastomeric insulation minimum class D-s3, d0

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

*

Steel Pipes with Elastomeric Insulation - C/C

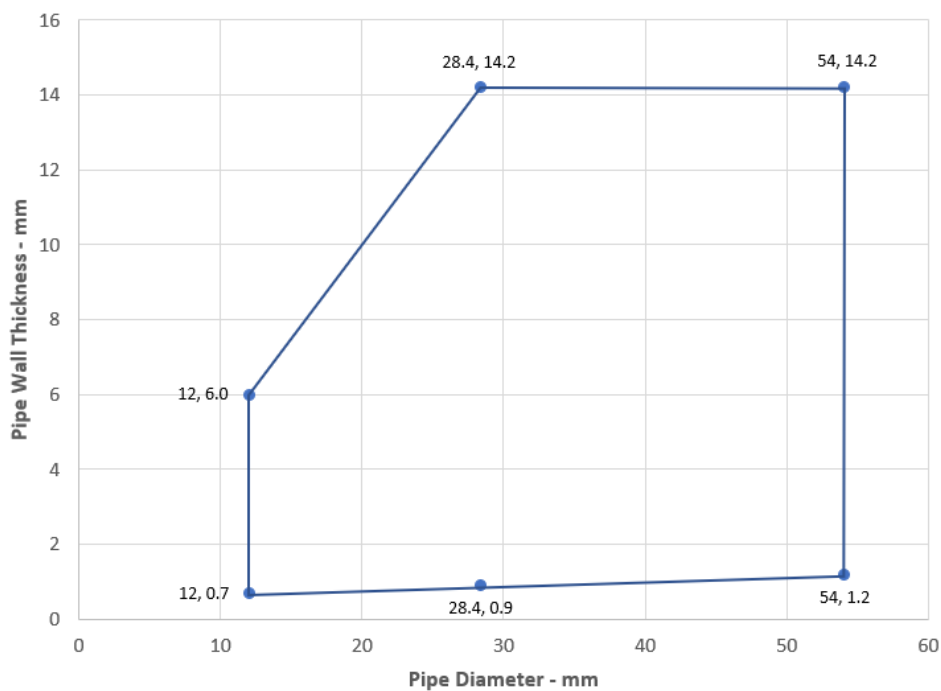


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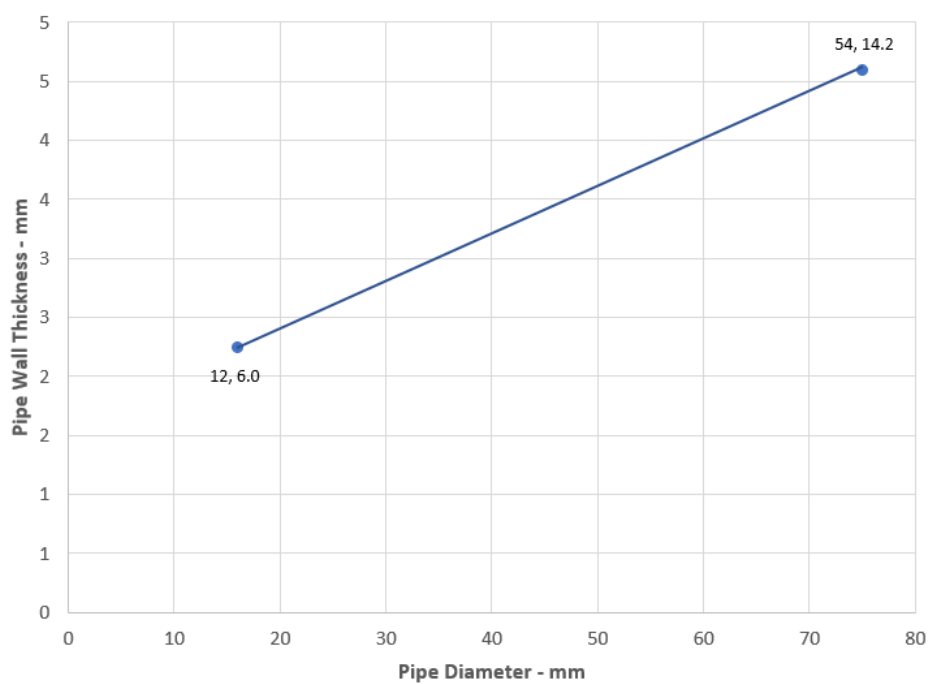
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Elastomeric Insulation - C/C



Alupex Pipes with Elastomeric Insulation - C/C



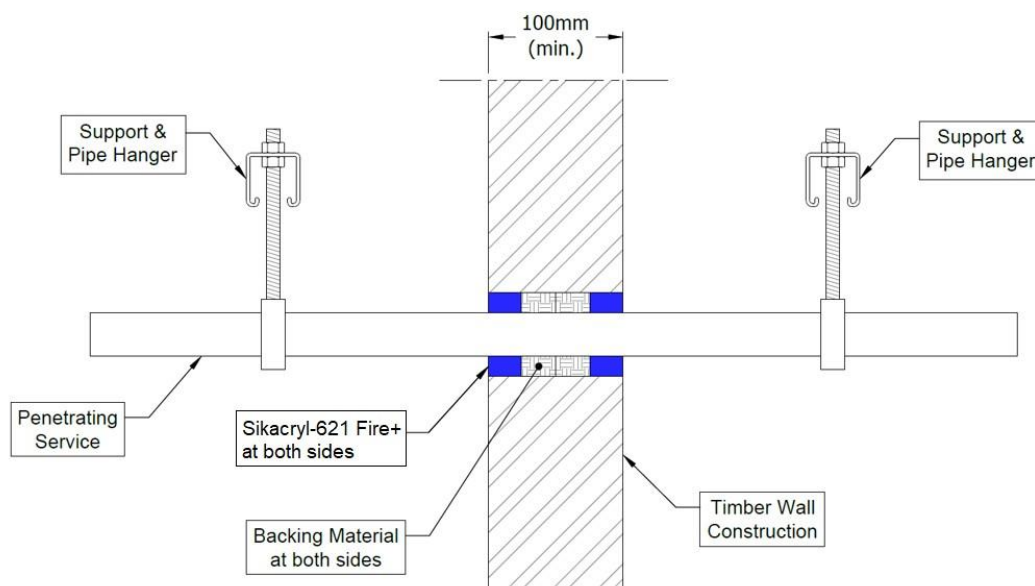
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

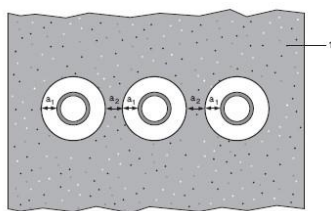
A.5.5 Double side penetration seal with plastic pipes and composite pipes

Penetration Seal: Plastic and composite pipes (single) fitted at any position within the aperture, with Sikacryl- 621 Fire+ to both sides of the wall, backed with stone, mineral wool min. 33 kg/m³. Minimum annular space 10 mm and maximum 30 mm (a1) and minimum separation between penetration seals 0 mm (a2).

Construction details:



Configuration 1:



Key

1 Supporting construction

a1 Pipe / edge of seal separation (annular space)

a2 Separation between penetration seals

A.5.5.1

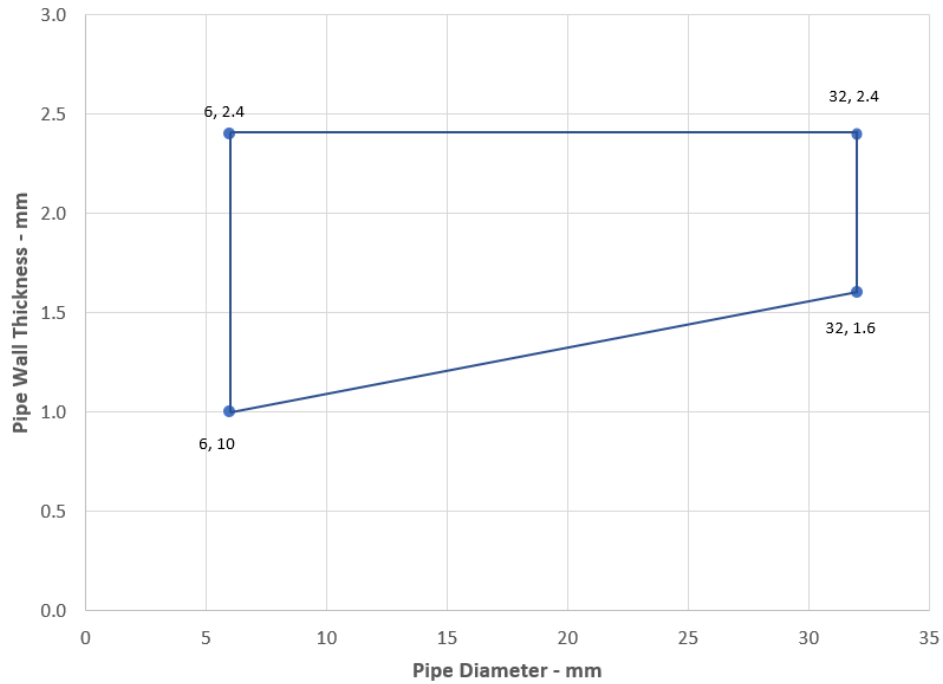
Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Maximum 32 mm diameter/1.0-2.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 U/C
PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1			
Maximum 32 mm diameter/2.0-3.0 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 U/C
PP pipe according to EN 1451-1 or DIN 8077/8078			
Maximum 32 mm diameter/1.8-4.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 U/C
PEX pipe in pipe system			
25 mm diameter outer /15 mm diameter x 2.5 mm wall inner	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 C/C

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

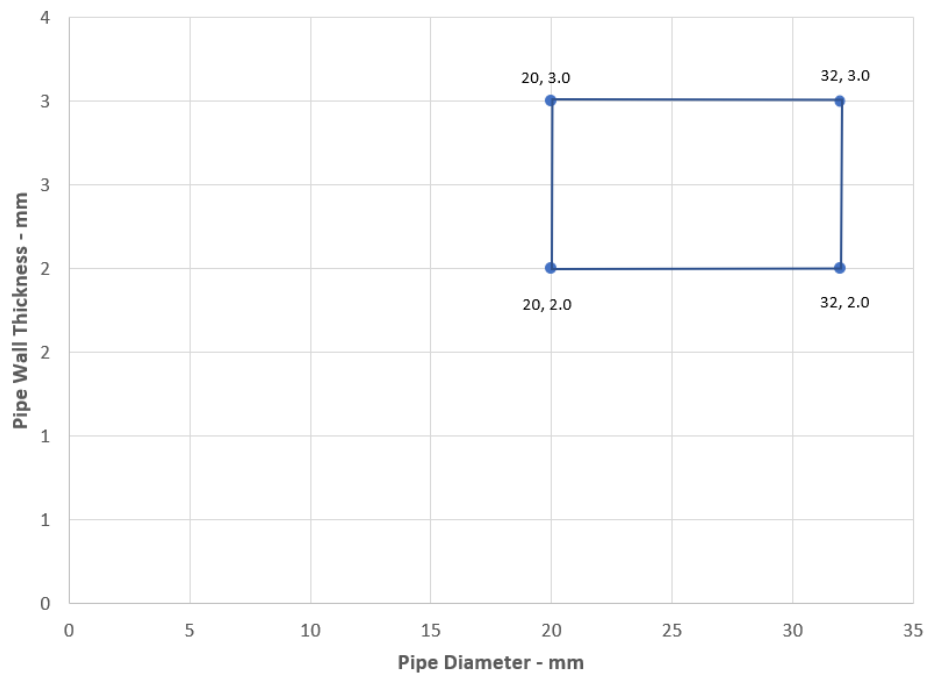
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PVC-U Pipes EI 90 - U/C



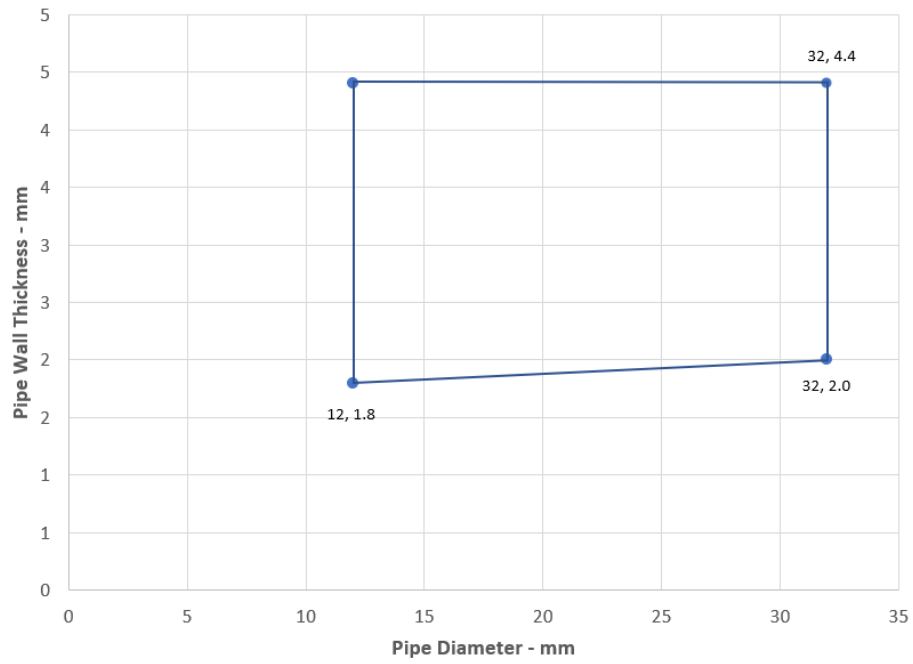
PE Pipes EI 90 - U/C



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PP Pipes EI 90 - U/C



Declaration of Performance

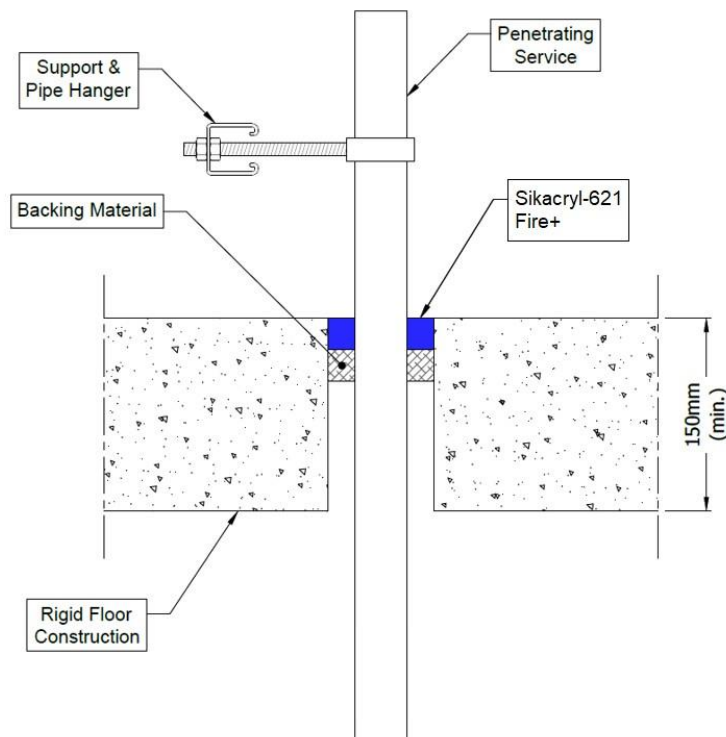
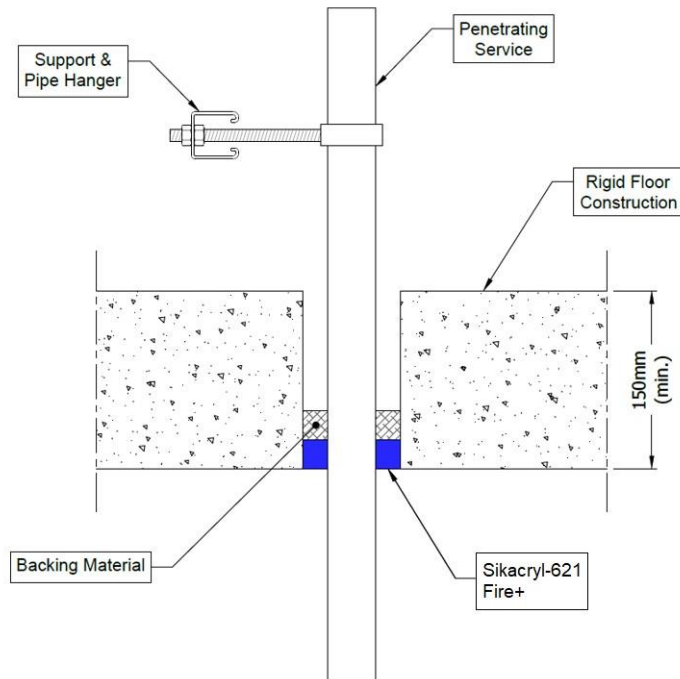
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

A.6.1 Single side penetration seal with cables

Penetration Seal: Cables (single) fitted at any position within the aperture, min. 10 mm from the edges, with Sikacryl-621 Fire+ to either side of the floor (or at any position in between), backed with AES Fibre $\geq 128\text{kg/m}^3$.

Construction details:



Declaration of Performance

Sikacryl®-621 Fire+

74951760

2025.01. , ver. 1

1549

A.6.1.1

Services	Sealant depth	Backing (minimum)	Aperture (maximum)	Classification
Single electrical cables up to 21 mm Ø	25 mm	AES Fibre ≥ 128kg/m ³ 25 mm deep	82 mm Ø or 100 x 1000 mm	E 120, EI 60

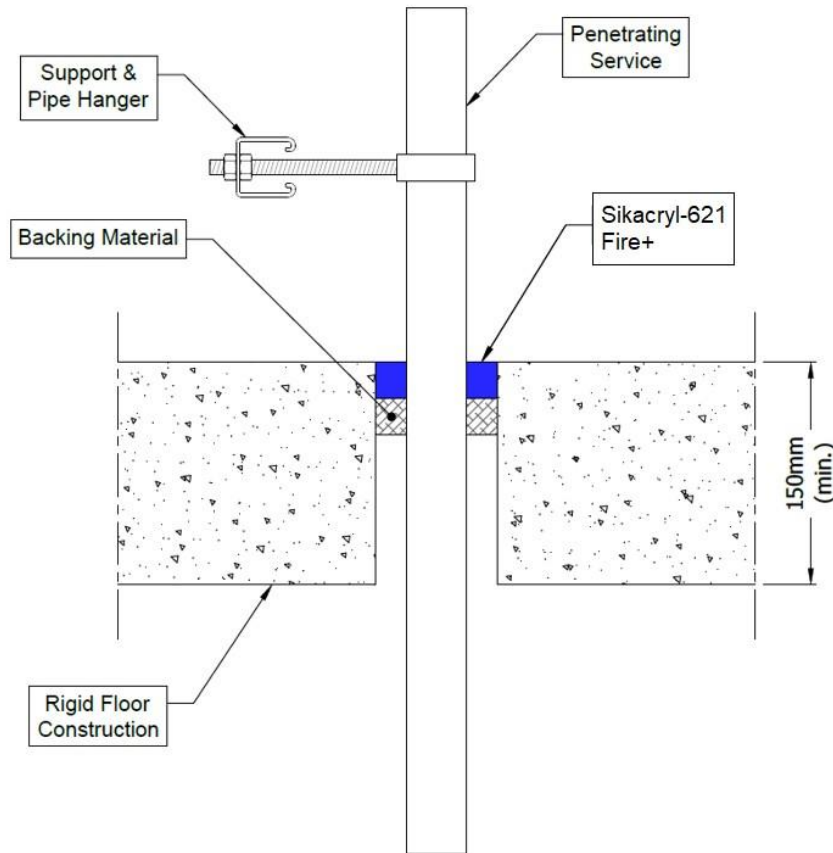
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.2 Single side penetration seal with cables

Penetration Seal: Cables fitted with Sikacryl-621 Fire+ to the top side of the floor, backed with stone wool insulation minimum 35kg/m³ or AES Fibre ≥ 128kg/m³. Maximum seal size of 300 x 300 mm and minimum separation between cables and the edge of the seal of 10 mm.

Construction details:



A.6.2.1

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Blank seals	15 mm	20 mm Stone wool 35 kg/m ³	None	E 90, EI 60
	25 mm	25 mm Stone wool 35 kg/m ³		EI 120
Electric cables up to 21 mm diameter, single.		48 mm AES Fibre ≥ 128kg/m ³		EI 240
				E 120, EI 90
23-27 mm diameter, 1 mm × 185 mm ² core, PVC sheath and insulation electrical cable, single				EI 240

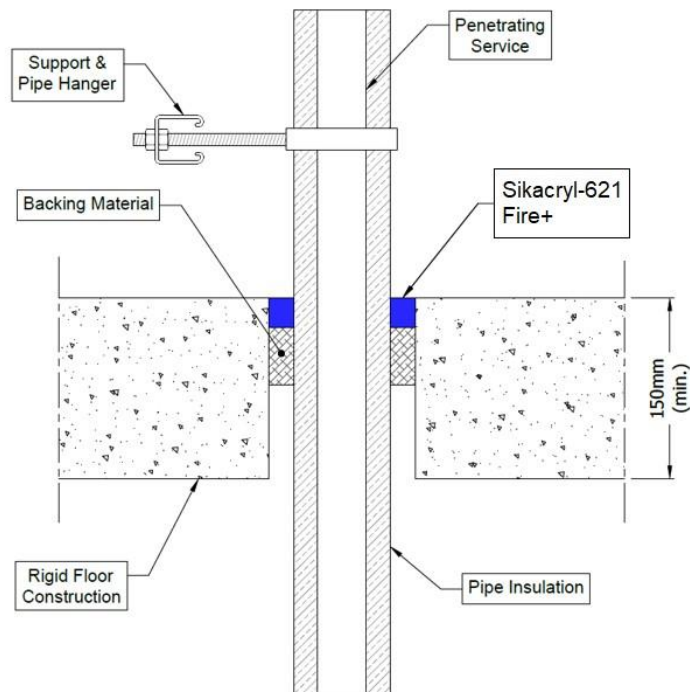
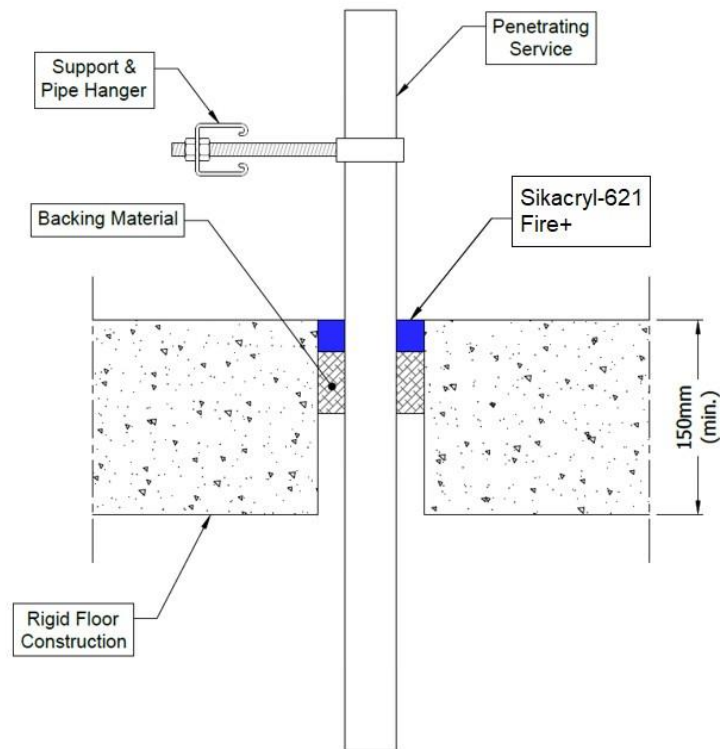
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.3 Single side penetration seal with pipes

Penetration Seal: Pipes fitted at any position within the aperture, with Sikacryl-621 Fire+ to the top face of the floor, backed with 48 mm stone wool minimum 33kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2), maximum seal size 300 x 300 mm / 300 mm diameter.

Construction details:



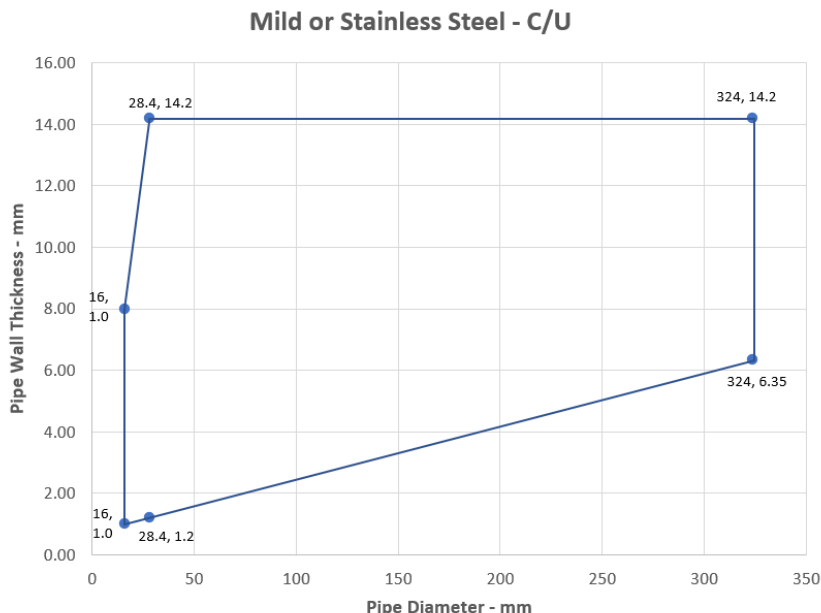
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.3.1

Services	Sealant depth	Backing	Classification
Mild or stainless steel pipe			
4 -16 mm diameter /1.0-8.0 mm wall	25 mm	48 mm stone wool	EI 120 C/U
17 -324 mm diameter /1.0-14.2 mm wall*			E 120 C/U
Mild or stainless steel pipe with minimum 75 kg/m ³ density stone or glass wool insulation Continuous Sustained (CS)			
12-273 mm diameter/0.7-14.2 mm wall, 30 mm insulation*	25 mm	48 mm stone wool	E 120 C/C, EI 90 C/C
Copper or steel pipe			
6 mm diameter /0.7-3.0 mm wall	25 mm	48 mm stone wool	EI 120 C/C
6 -15 mm diameter /0.7-7.5 mm wall*			E 120 C/C, EI 60 C/C
16 - 54 mm diameter /0.7-14.2mm wall*			E 120 C/C
Copper or steel pipe with minimum 80 kg/m ³ density stone wool insulation Continuous Sustained (CS)			
12 mm diameter/0.9-6 mm wall, 20-80 mm insulation	25 mm	48 mm stone wool	EI 240 C/C
13-54 mm diameter/0.9-14.2 mm wall, 20-80 mm insulation*			E 240 C/C, EI 180 C/C
Copper or steel pipe with minimum 75 kg/m ³ density glass wool insulation Continuous Sustained (CS)			
12 mm diameter/0.7-6.0 mm wall, 20 mm insulation	25 mm	48 mm stone wool	EI 120 C/C
Alupex Pipe			
16 -20 mm diameter/2.0 mm wall	25 mm	48 mm stone wool	EI 120 C/C
21-75 mm diameter/2.0-4.6 mm wall			E 120 C/C, EI 90 C/C
16-75 mm diameter/2.25-4.6 mm wall with 20-50 mm thick glass wool or stone, mineral wool min. 75 kg/m ³ insulation Continuous Sustained (CS)			E 180 C/C, EI 120 C/C
16-75 mm diameter/2.25-4.7 mm wall with 60 mm thick glass wool or stone, mineral wool min. 75 kg/m ³ insulation Continuous Sustained (CS)*			E 120 C/C, EI 90 C/C

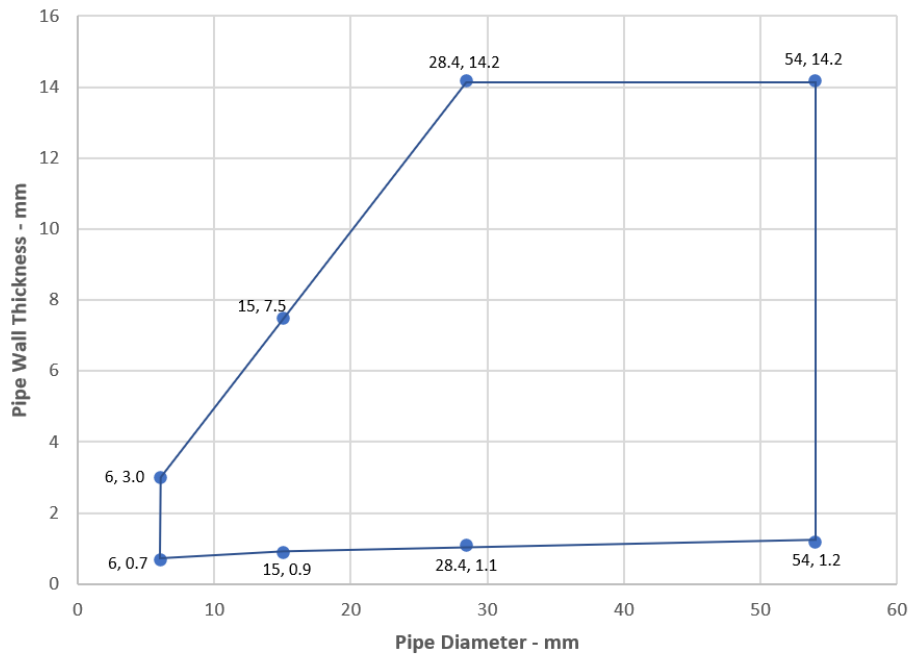
*See below graphs for interpolated pipe sizes



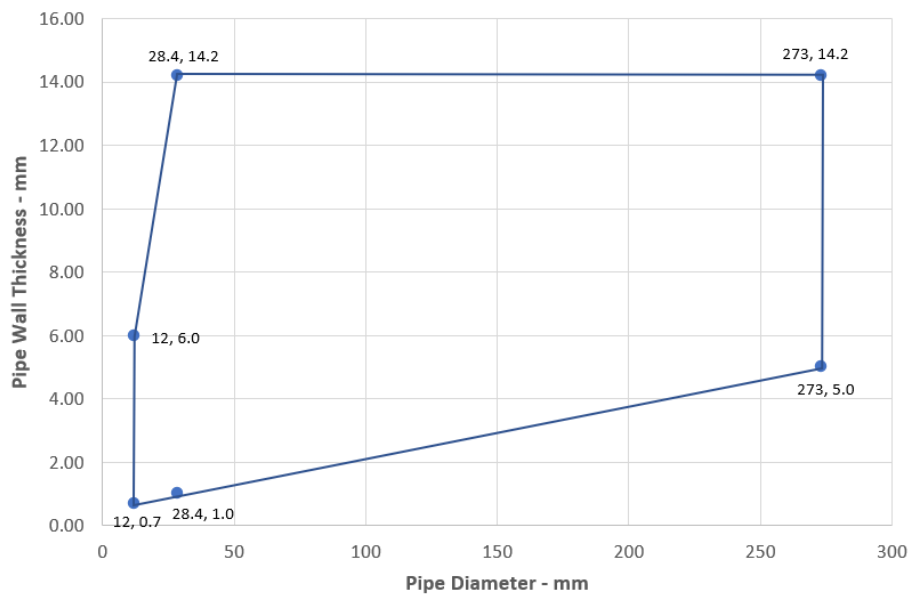
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Stainless Steel Pipes - C/C



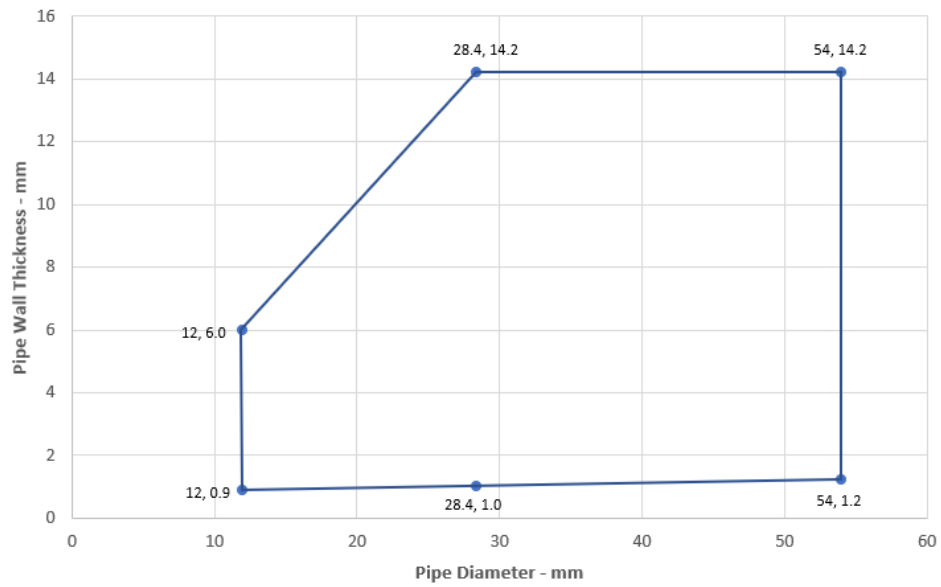
Mild or Stainless Steel Pipes with Stone or Glass Wool Insulation - C/C



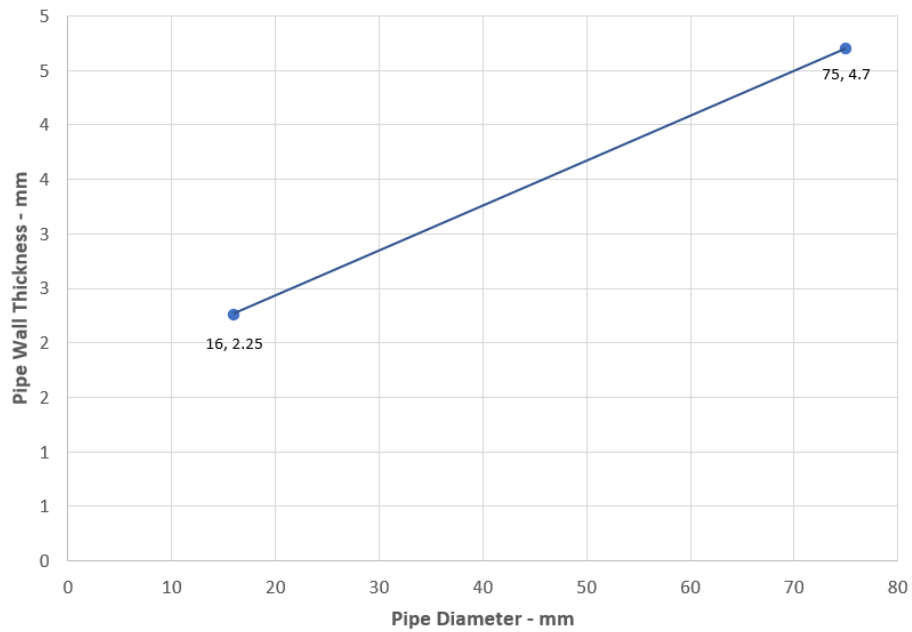
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

**Copper or Steel Pipes with 20-80 mm stone wool Insulation CS
E 240 C/C, EI 180 C**



Alupex Pipes with Stone or Glass Wool Insulation - C/C



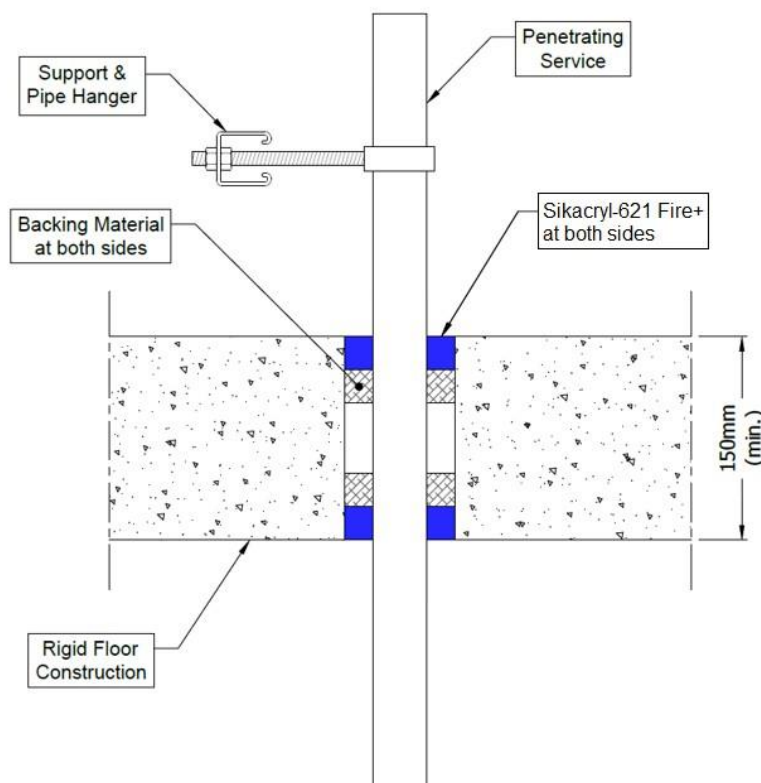
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.4 Double side penetration seal with pipes

Penetration Seal: Pipes fitted at any position within the aperture, with Sikacryl-621 Fire+ to the both faces of the floor, backed with 25 mm stone wool minimum 33kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2), maximum seal size 300 x 300 mm / 300 mm diameter.

Construction details:



A.6.4.1

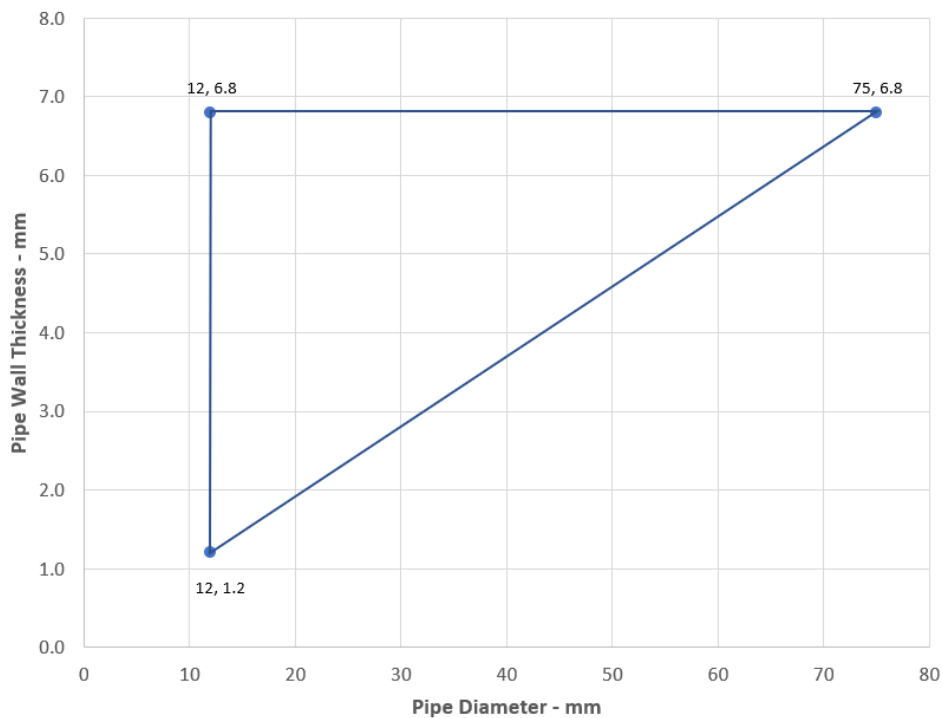
Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Up to 50 mm Ø/1.6-3.7 mm wall	25 mm	25 mm Stone wool	EI 240 U/C
Up to 40 mm Ø/1.6-3.7 mm wall, with bundle of cables up to 21 mm diameter			
PP pipe according to EN 1451-1 or DIN 8077/8078			
12 mm Ø/1.2 mm wall	25 mm	25 mm Stone wool	EI 240 U/C
13-40 mm Ø/1.2-3.7 mm wall			EI 180 U/C
41-75 mm Ø/1.2-6.8 mm wall*			EI 90 U/C
Up to 40 mm Ø/1.2-3.7 mm wall, with bundle of cables up to 21 mm diameter			EI 180 U/C
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			
20-40 mm Ø/2.0-3.7 mm wall*	25 mm	25 mm Stone wool	EI 240 U/C
Up to 40 mm Ø/2.0-3.7 mm wall, with bundle of cables up to 21 mm diameter			EI 180 U/C

*See below graphs for interpolated pipe sizes

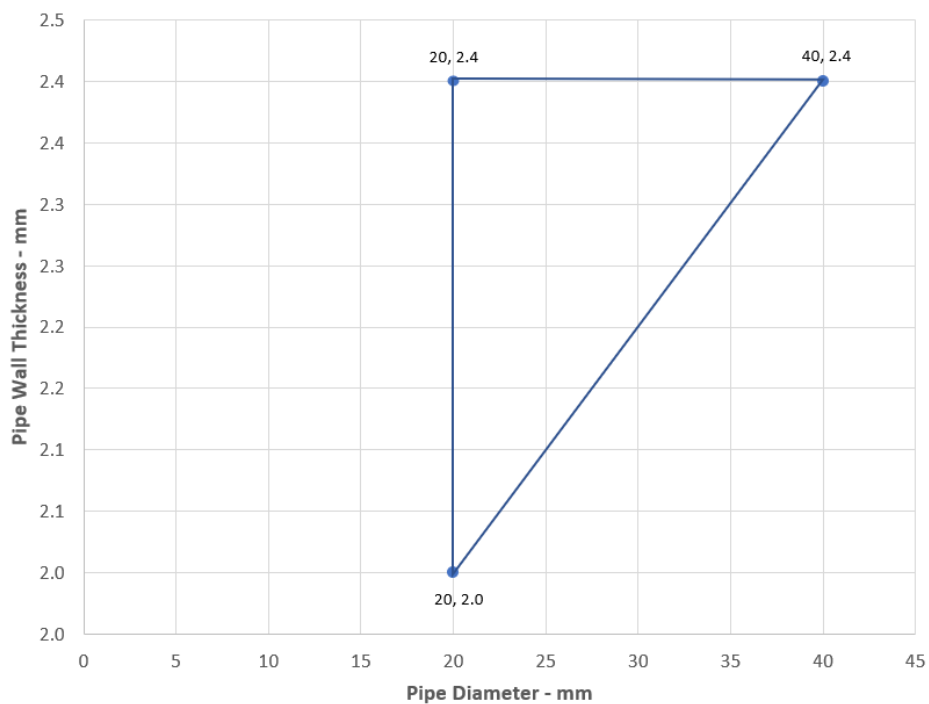
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PP Pipes - EI 190 U/C



PE Pipes - U/C



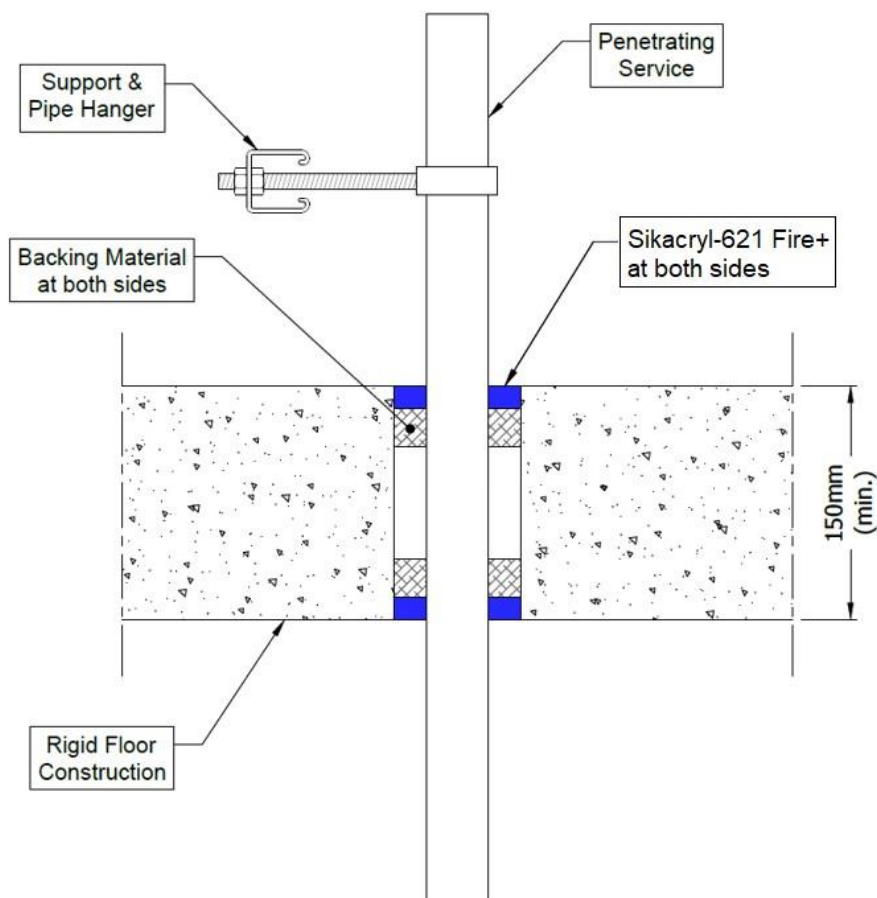
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.5 Double side penetration seal with cables

Penetration Seal: Cables fitted circular apertures or min. 7 mm from the edges of rectilinear apertures, with Sikacryl-621 Fire+ to both sides of the floor, backed with stone wool insulation minimum 35kg/m³.

Construction details:



A.6.5.1

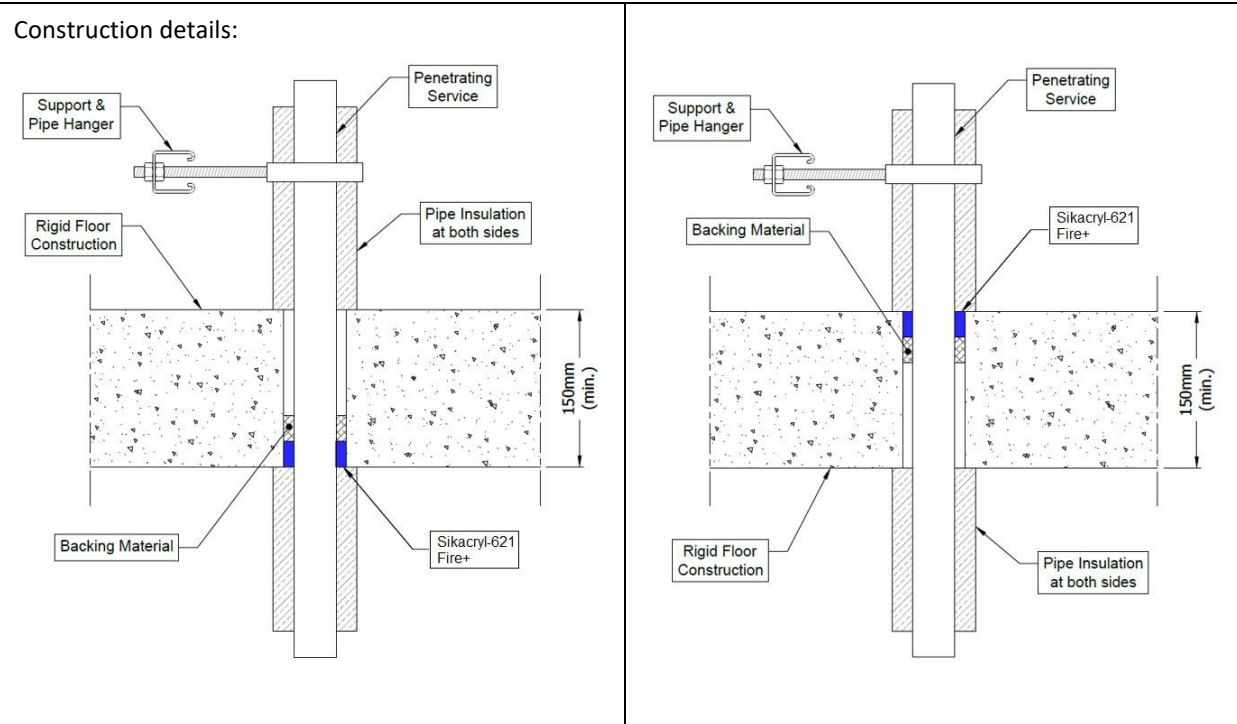
Services	Sealant depth	Backing	Maximum Aperture	Classification
Blank seals	15 mm	25 mm Stone wool 35 kg/m ³	300 x 300 mm	EI 240
Electric cables up to 21 mm diameter, single or in a bundle.				EI 120
Electric cables 22-50 mm diameter, single or in a bundle.				E 120, EI 90
Electric cables 51-80 mm diameter, single or in a bundle.				E 120, EI 60

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.6 Single side penetration seal with metallic pipes

Penetration Seal: 1000 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes (single) fitted at any position within the aperture, with 15 or 25 mm deep Sikacryl-621 Fire+ to either side of the floor (or at any position between), backed with minimum 40 kg/m³ stone wool insulation or AES Fibre ≥ 128kg/m³.



A.6.6.1

Services	Max. seal size	Insulation (min)	Sealant depth	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	10 mm width around pipe	20 mm Stone wool insulation 80 kg/m³	15 mm	E 240 C/U, EI 180 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall				EI 240 C/U
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	Up to 100 x 1000 mm		25 mm	EI 120 C/U
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	300 x 300 mm	20 mm Stone wool insulation 80 kg/m³	15 mm	E 90 C/U, EI 60 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall				
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall			25 mm	EI 120 C/U

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Max. Seal Size	Insulation (min)	Sealant Depth	Classification
Mild or stainless steel pipe				
40 mm diameter/1-14.2 mm wall	10 mm width around pipe	20 mm Stone wool insulation 80 kg/m³	15 mm	EI 240 C/U
40 mm diameter/1-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m³		E 240 C/U, 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/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*				
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				
40 mm diameter/1-14.2 mm wall*	Up to 100 x 1000 mm	20 mm Stone wool insulation 80 kg/m³	25 mm	E120 C/U, EI 90 C/U
50 mm diameter/1.2-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m³		
60 mm diameter/1.4-14.2 mm wall*				
75 mm diameter/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*				
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

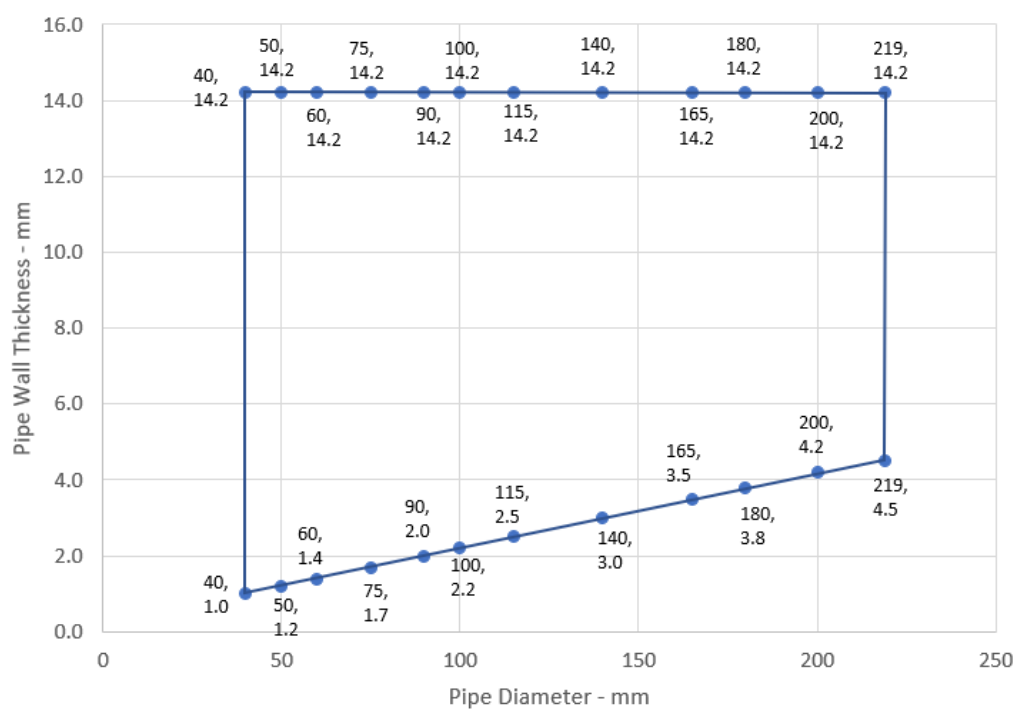
Services	Max. Seal Size	Insulation (minimum)	Sealant Depth	Classification
Mild or stainless steel pipe				
40 mm diameter/1-14.2 mm wall	300 x 300 mm	20 mm Stone wool insulation 80 kg/m³	15 mm	E 90 C/U, EI 60 C/U
40 mm diameter/1-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m³		
50 mm diameter/1.2-14.2 mm wall*				
60 mm diameter/1.4-14.2 mm wall*				
75 mm diameter/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*				
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				
40 mm diameter/1-14.2 mm wall*		20 mm Stone wool insulation 80 kg/m³	25 mm	E120 C/U, EI 90 C/U
50 mm diameter/1.2-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m³		
60 mm diameter/1.4-14.2 mm wall*				
75 mm diameter/1.7-14.2 mm wall*				
90 mm diameter/2-14.2 mm wall*				
100 mm diameter/2.2-14.2 mm wall*				
115 mm diameter/2.5-14.2 mm wall*				
140 mm diameter/3-14.2 mm wall*				
165 mm diameter/3.5-14.2 mm wall*				
180 mm diameter/3.8-14.2 mm wall*				
200 mm diameter/4.2-14.2 mm wall*				
219 mm diameter/4.5-14.2 mm wall*				

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Stone Wool Insulation - C/U



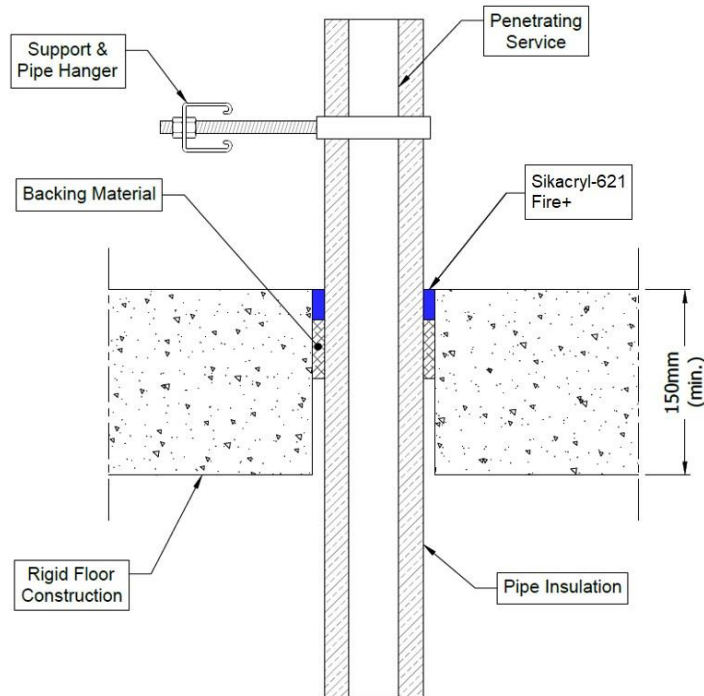
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.7 Single side penetration seal with metallic pipes

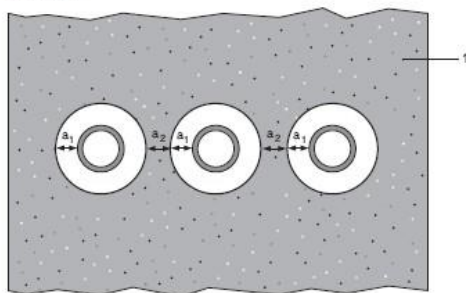
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to the top of the floor, backed with 48 mm deep AES Fibre $\geq 128\text{kg/m}^3$ insulation. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). Maximum seal size 300 x 300 mm / 504 mm $\varnothing$

Construction details:



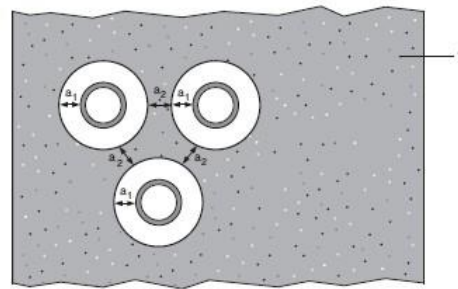
Configuration 1:

Option 1



Configuration 2:

Option 2



Key

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

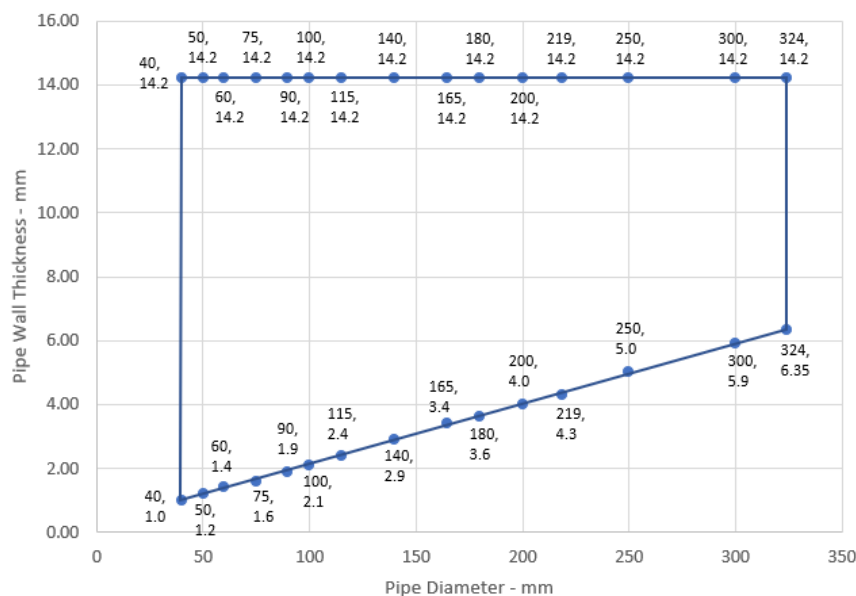
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.7.1 Single side penetration seal with pipes

Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	
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*		
PEX pipe in pipe system		
15 mm diameter x 2.5 mm wall inner /25mm diameter outer	None	EI 90 C/C

Steel Pipes with Mineral Wool Insulation - C/U



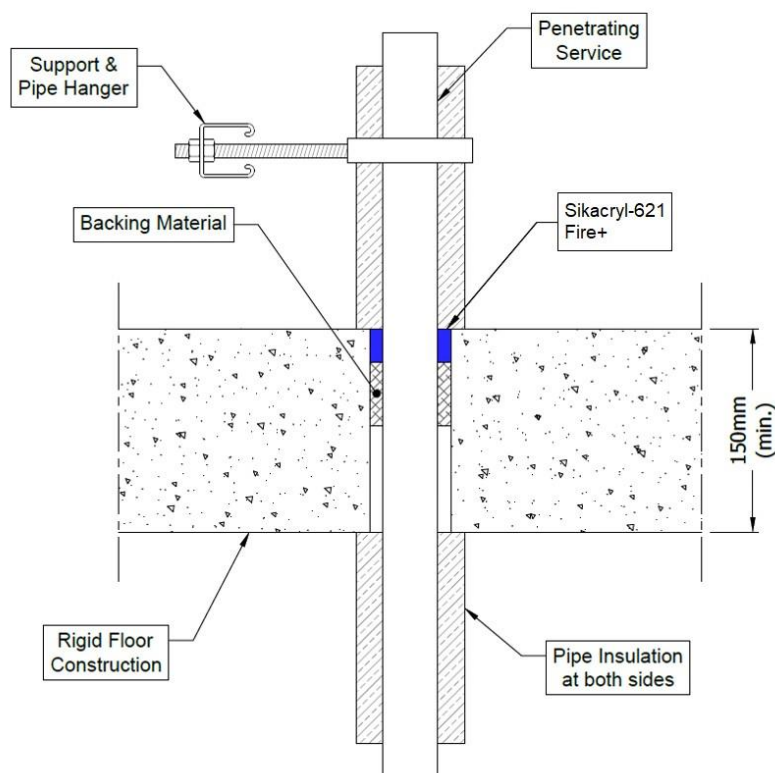
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.8 Single side penetration seal with metallic pipes

Penetration Seal: LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm deep Sikacryl-621 Fire+ to the top side of the floor, backed with 48 mm deep minimum 33 kg/m³ stone wool insulation or AES Fibre ≥ 128kg/m³.

Construction details:



A.6.8.1

Services	Max. seal size	Insulation (min)	Sealant depth	Classification
Copper or steel pipe up to 54 mm diameter/0.7-14.2 mm wall	300 x 300 mm	20 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	EI 180 C/C
Copper or steel pipe up to 108 mm diameter/0.7-14.2 mm wall	300 x 300 mm	30 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	E 180 C/C, EI 30 C/C
Copper or steel pipe up to 159 mm diameter/0.7-14.2 mm wall	300 x 300 mm	30 mm Stone wool 80 kg/m ³ , 1000 mm length from both sides of the seal	25 mm	E 90 C/C, EI 20 C/C
Steel pipe up to 273 mm diameter/0.7-14.2 mm wall	300 x 300 mm	30 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	E 180 C/C, EI 60 C/C
Alupex pipe up to 16 mm diameter/2.25 mm wall	300 x 300 mm	20 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	EI 180 C/C
Alupex pipe up to 75 mm diameter/2.25-4.7 mm wall	300 x 300 mm	25 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	25 mm	E 180 C/C, EI 120 C/C

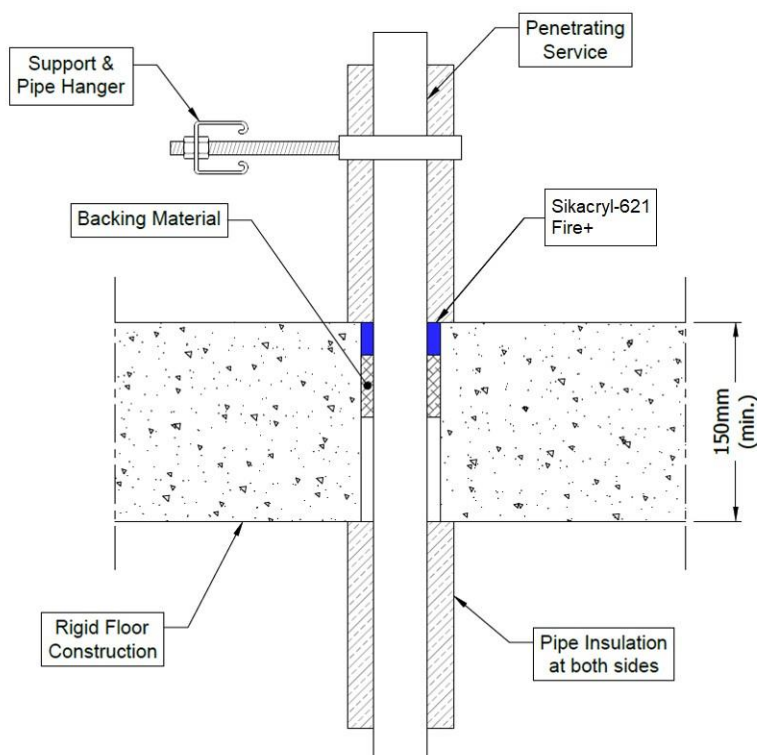
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.9 Single side penetration seal with composite pipes

Penetration Seal: CI (Continuous Interrupted) or LI (Locally Interrupted) insulated composite pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+, minimum 10 mm seal width around service and maximum 300 x 300 mm seal, backed with AES Fibre $\geq 128\text{kg/m}^3$.

Construction details:



A.6.9.1

Services	Sealant depth	Backing	Insulation (minimums)	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 mm wall	25 mm	48 mm AES Fibre $\geq 128\text{kg/m}^3$	20 mm stonewool 80 kg/m^3 , 500 mm length from both sides of the seal	EI 240 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				

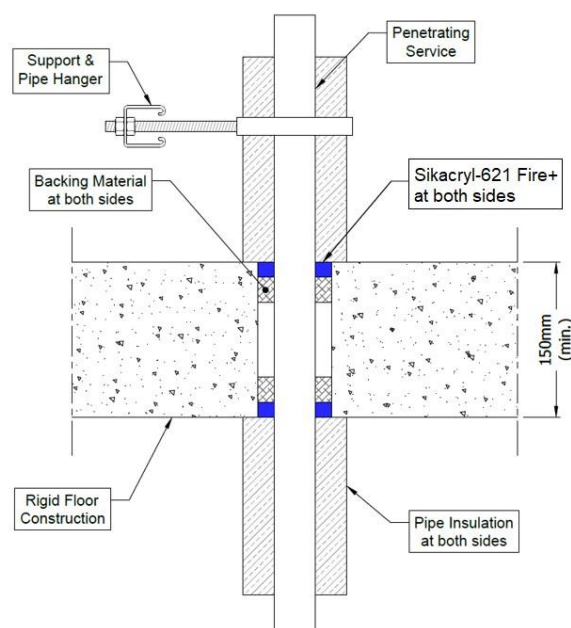
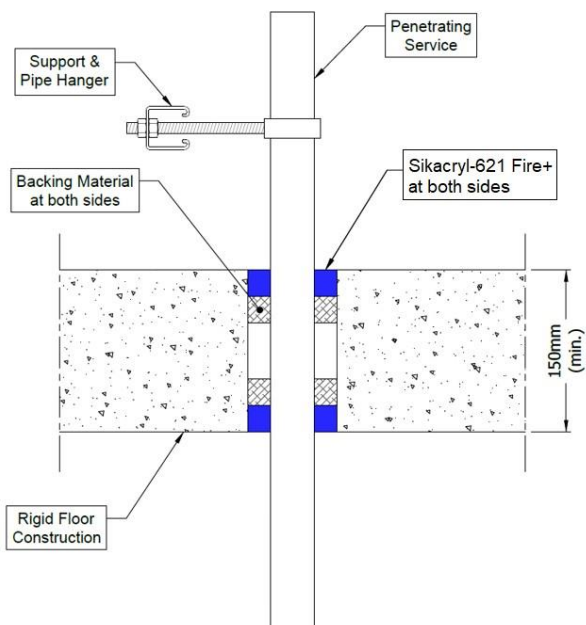
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.10 Double side penetration seal with metallic pipes

Penetration Seal: Non-insulated or insulated metallic pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the floor, backed with stone wool or mineral fibre insulation.

Construction details:



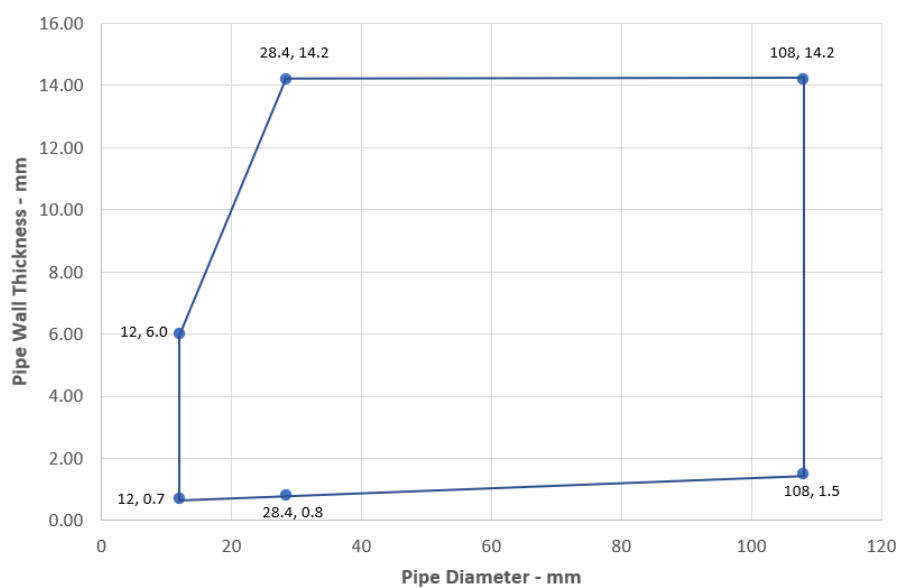
A.6.10.1

Services	Max. Seal Size	Insulation	Sealant depth	Backing (minimum)	Classification
Copper or steel pipe 54 mm diameter/2-14.2 mm wall	300 x 300 mm	None	25 mm	25 mm deep 140 kg/m ³ stone wool	E 120 C/U, EI 20 C/U
Copper or steel pipe maximum 108 mm diameter /0.7-14.2 mm wall*		30 mm Glass or Stone wool 75 kg/m ³ , 500 mm length from both sides of the seal	15 mm	25 mm deep 33 kg/m ³ stone wool	E 120 C/C, EI 45 C/C
Mild steel pipe 16 mm diameter/1.5-7.5 mm wall		None	25 mm	25 mm deep 140 kg/m ³ stone wool	EI 240 C/U
Mild steel pipe maximum 63 mm diameter/1.5-14.2 mm wall			15 mm	25 mm deep 35 kg/m ³ stone wool	E 240 C/U EI 30 C/U
Mild steel pipe 16 mm diameter/1.5-7.5 mm wall	Up to 100 x 1000 mm		25 mm	AES Fibre ≥ 128kg/m ³ 25 mm deep	EI 120 C/U

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Stone or Glass Wool Insulation - C/C



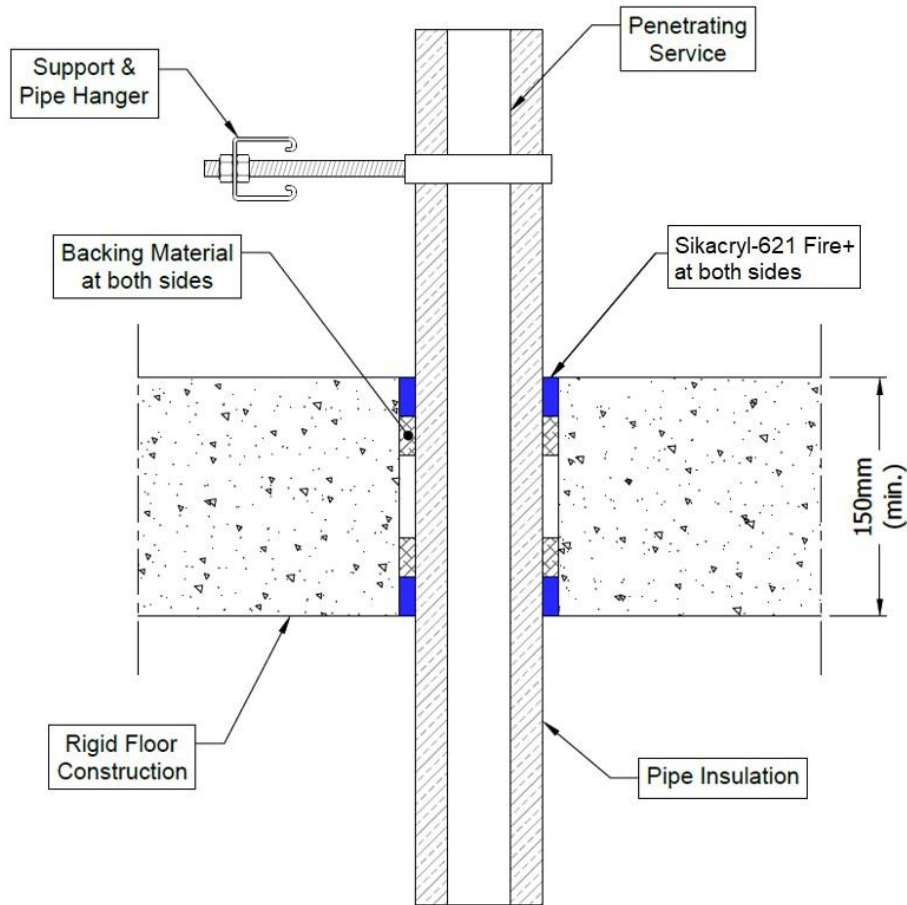
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.11 Double side penetration seal with metallic pipes

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the floor, maximum 300 x 300 mm seal width around service, backed with stone wool insulation or AES Fibre $\geq 128\text{kg/m}^3$.

Construction details:



Declaration of Performance

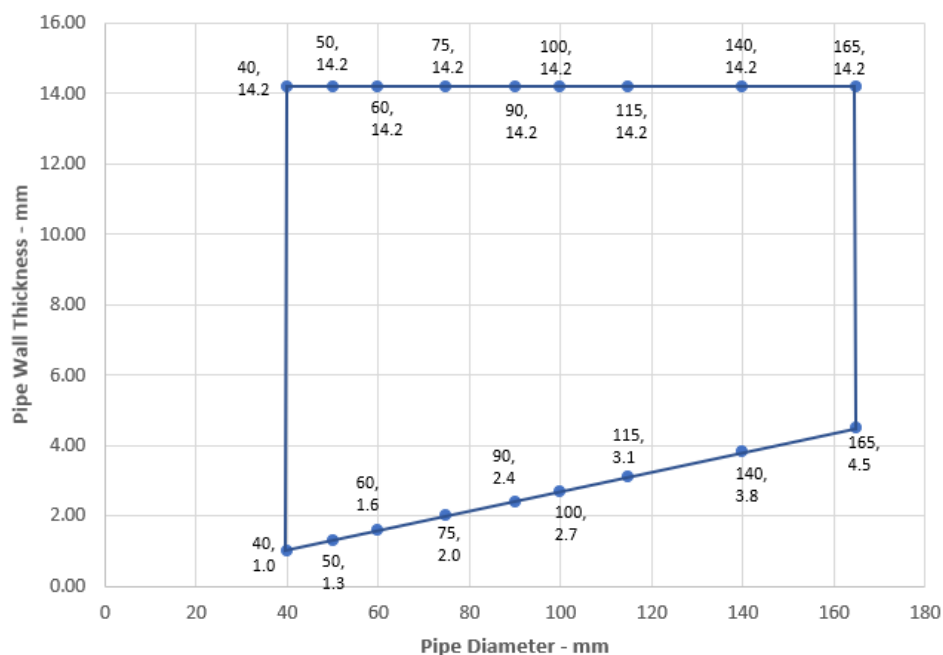
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74951760
2025.01. , ver. 1
1549

A.6.11.1

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Mild or stainless steel pipe				
40 mm diameter/1-14.2 mm wall	25 mm	20 mm Stone wool 40 kg/m³	13 -19 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	EI 180 C/U
40 mm diameter/1-14.2 mm wall*	25 mm	25 mm AES Fibre ≥ 128kg/m³		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*				
12-273 mm diameter/0.7-14.2 mm wall	15 mm	25 mm Stone wool 33 kg/m³	30-60 mm thick glass or stone, mineral wool min.	EI 60 C/U

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

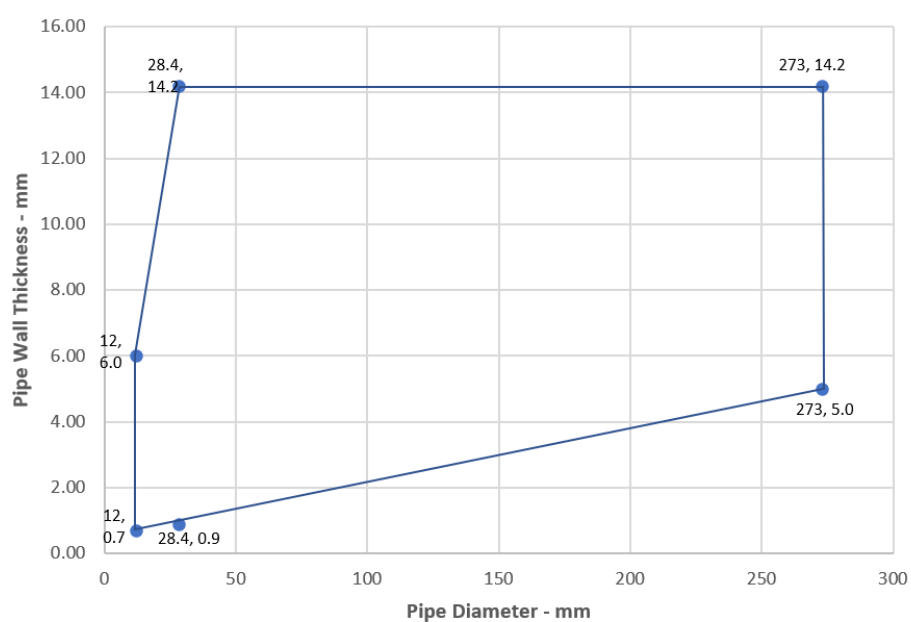
Steel Pipes with 13-19 mm Elastomeric Insulation - C/U



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Mild Steel Pipes with 30-60 mm Stone or Glass Wool Insulation - C/U



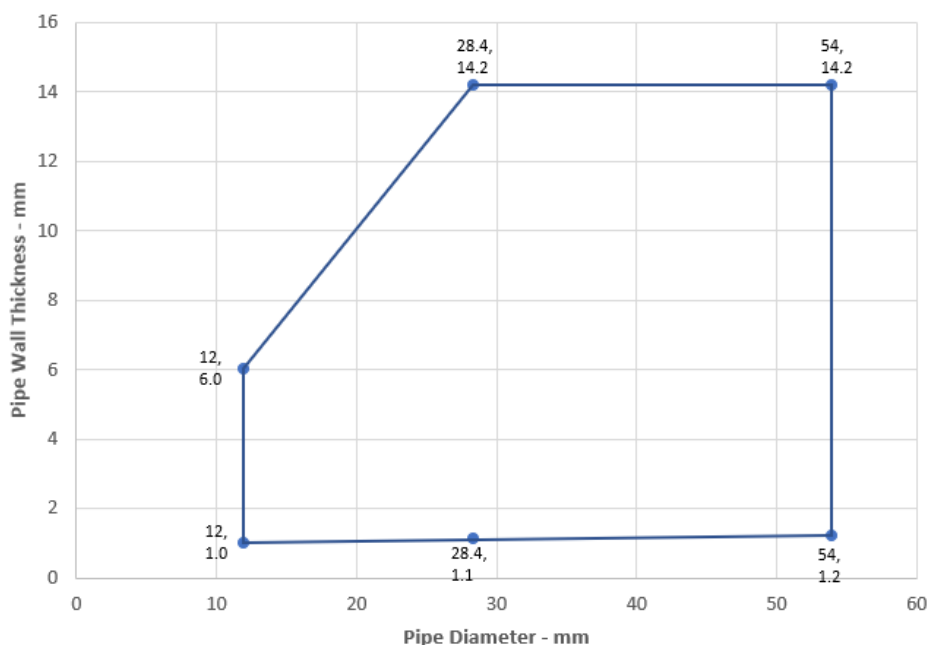
Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Copper or steel pipe				
12 mm diameter/1-6 mm wall	25 mm	25 mm AES Fibre $\geq$ 128kg/m ³	9 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	E 240 C/C, EI 180 C/C
12-54 mm diameter/1-14.2 mm wall*			9-13 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	E 180 C/C, EI 120 C/C
12-54 mm diameter/1-14.2 mm wall*			13-25 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	E 90 C/C, EI 60 C/C
12-54 mm diameter/0.7-14.2 mm wall	15 mm	25 mm Stone wool 33 kg/m ³	20-60 mm thick glass or stone, mineral wool min.	EI 120 C/C

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

Copper or Steel Pipes with Elastomeric Insulation - C/C



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Services	Sealant depth	Backing (minimum)	Insulation	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 mm wall	25 mm	25 mm AES Fibre $\geq 128\text{kg/m}^3$	9 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	EI 180 C/C
16 mm diameter/2.25 mm wall			9-13 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	E 120 C/C, EI 60 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			13-25 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	EI 60 C/C
63 mm diameter/4.5 mm wall				
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				

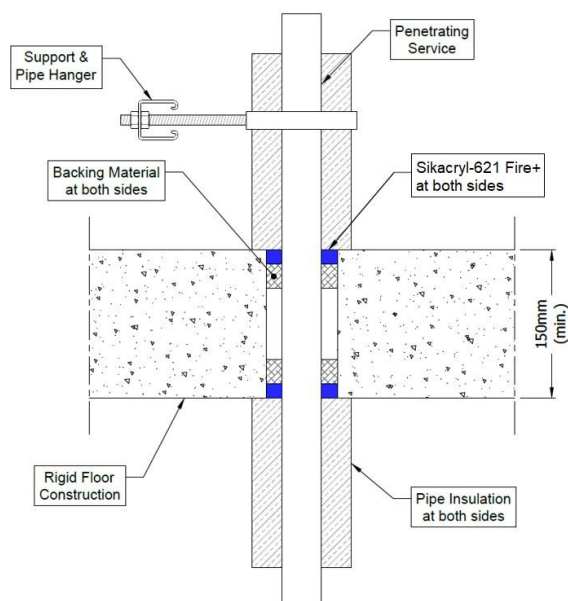
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.6.12 Double side penetration seal with metallic pipes

Penetration Seal: 1000 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm deep Sikacryl-621 Fire+ to both sides of the floor (or at any position between), backed with 20 mm deep minimum 40 kg/m³ stone wool insulation*.

Construction details:



A.6.12.1

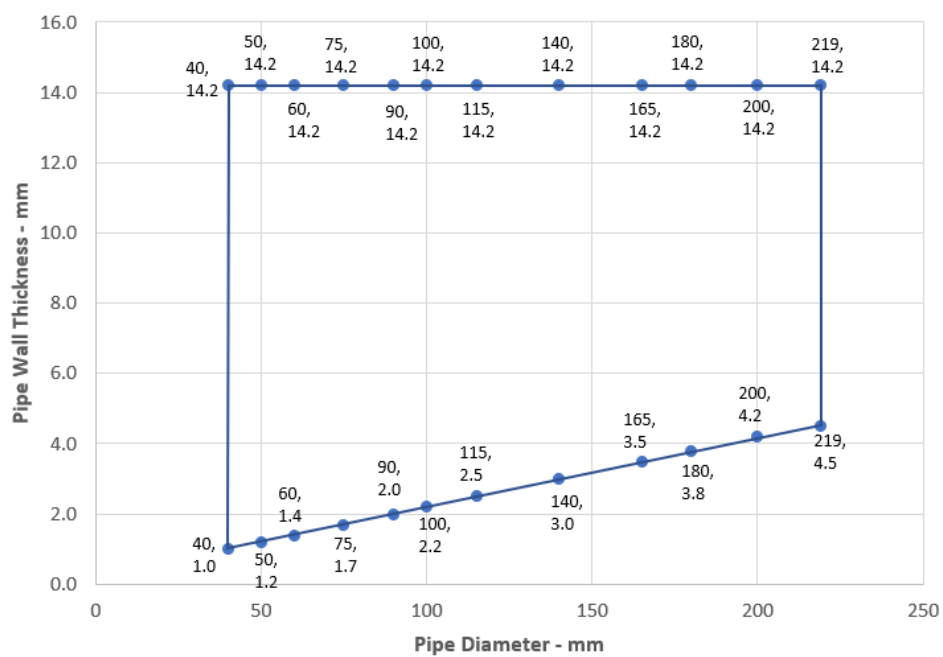
Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall	300 x 300 mm or 100 x 1000 mm	20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 120 C/U
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.7-14.2 mm wall*			
90 mm diameter/2-14.2 mm wall*			
100 mm diameter/2.2-14.2 mm wall*			
115 mm diameter/2.5-14.2 mm wall*			
140 mm diameter/3-14.2 mm wall*			
165 mm diameter/3.5-14.2 mm wall*			
180 mm diameter/3.8-14.2 mm wall*			
200 mm diameter/4.2-14.2 mm wall*			
219 mm diameter/4.5-14.2 mm wall*			

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

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Steel Pipes with Stone Wool Insulation - C/U

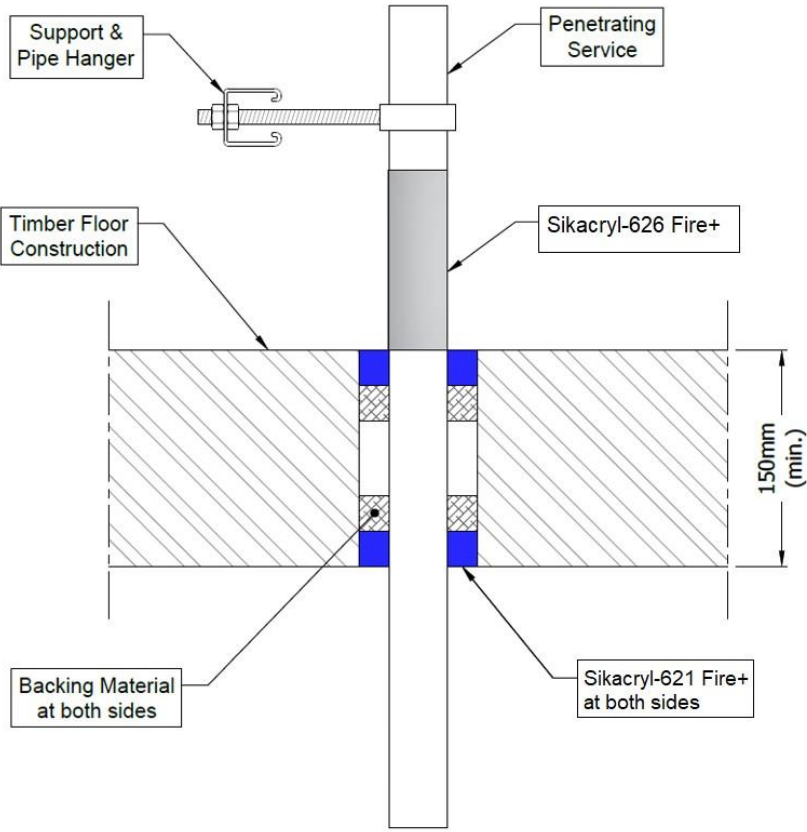
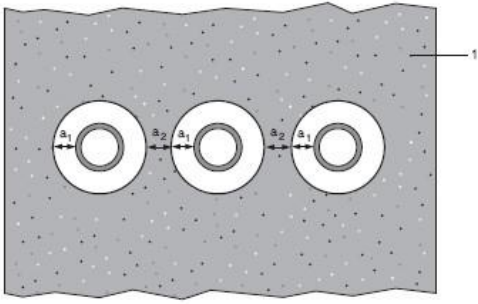


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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7. Timber floor constructions with floor thickness of minimum 150 mm

A.7.1 Double sided penetration seal with cables

Penetration Seal: Cables fitted at any position within the aperture, sealed with Sikacryl-621 Fire+, minimum 25 mm deep to both sides of the floor and backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
	Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals

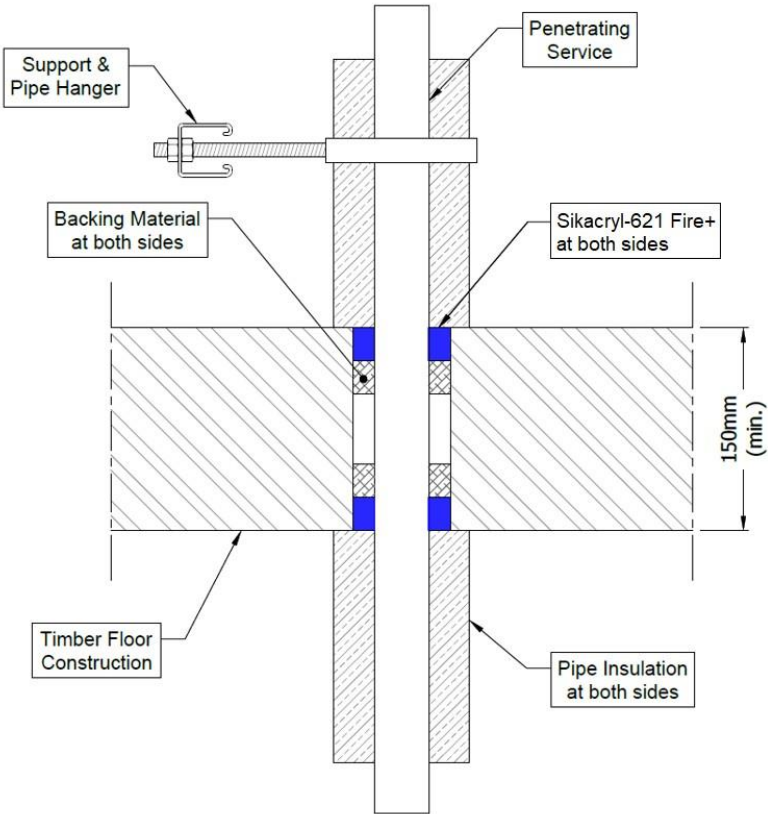
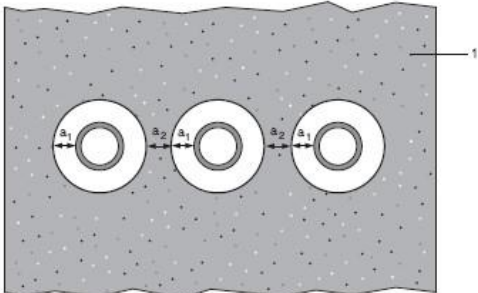
A.7.1.1

Services	Sealant depth	Backing	Maximum aperture	Insulation, minimum	Classification
None (blank)	25 mm	Stone wool 25 mm deep min. 33kg/m ³	Ø 220 mm	None	EI 120
Cables up to 14 mm Ø, single or in bundles up to 100 mm Ø				Sikacryl-626 Fire+, 260-micron DFT extending 150 mm from top side of the seal	EI 120
Cables up to 21 mm Ø, single or in bundles up to 100 mm Ø					E 120, EI 90
Cables up to 50 mm Ø, single or in bundles up to 100 mm Ø					E 120, EI 90
Telecom cables up to 14 mm Ø, single or in bundles up to 100 mm Ø					E 120, EI 90

Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7.2 Double side penetration seal with metallic pipes

Penetration Seal: 500 mm (min.) LI (Local Interrupted) or CI (Continuous Interrupted) insulated metallic pipes and composite pipes (single) with glass wool or stone, mineral wool min. 75 kg/m³, fitted at any position within the aperture, with Sikacryl-621 Fire+ to both sides of the floor, backed with stone wool insulation (minimum 33kg/m³), minimum 25 mm deep. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
	Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals

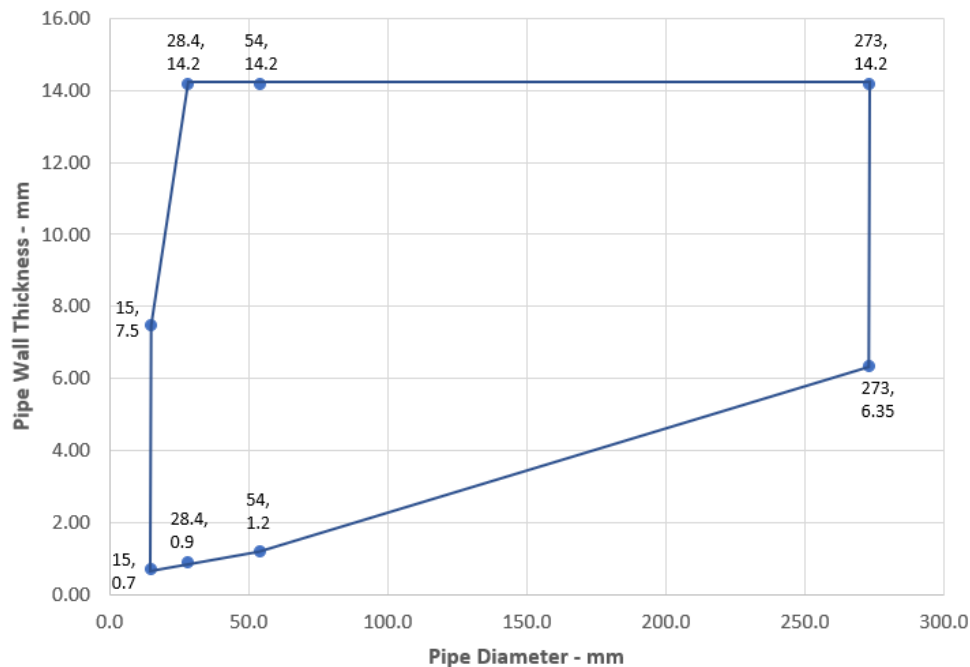
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7.2.1

Services	Maximum aperture	Sealant depth	Backing	Insulation, minimum	Classification
Mild or stainless steel pipe					
Maximum 273 mm diameter /6.35-14.2 mm wall*	Ø 293 mm	25 mm	Stone wool 25 mm deep min. 33kg/m³	25 mm glass wool or stone, mineral wool min. 75 kg/m³, 500 mm length from both sides of the	E 120 C/C, EI 60 C/C
Copper or steel pipe					
Maximum 15 mm diameter /0.7-7.5 mm wall*	Ø 220 mm	25 mm	Stone wool 25 mm deep min. 33kg/m³	20 mm glass wool or stone, mineral wool min. 75 kg/m³, 500 mm length from both sides of the seal	EI 120 C/C
Maximum 54 mm diameter /1.2-14.2 mm wall*					E 120 C/C, EI 90 C/C
Alupex Pipe					
Maximum 16 mm diameter/ 2.25 mm wall*	Ø 220 mm	25 mm	Stone wool 25 mm deep min. 33kg/m³	20 mm glass wool or stone, mineral wool min. 75 kg/m³, 500 mm length from both sides of the	EI 120 C/C
Maximum 75 mm diameter/ 4.6 mm wall*				25 mm glass wool or stone, mineral wool min. 75 kg/m³, 500 mm length from both sides of the	E 120 C/C, EI 90 C/C

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

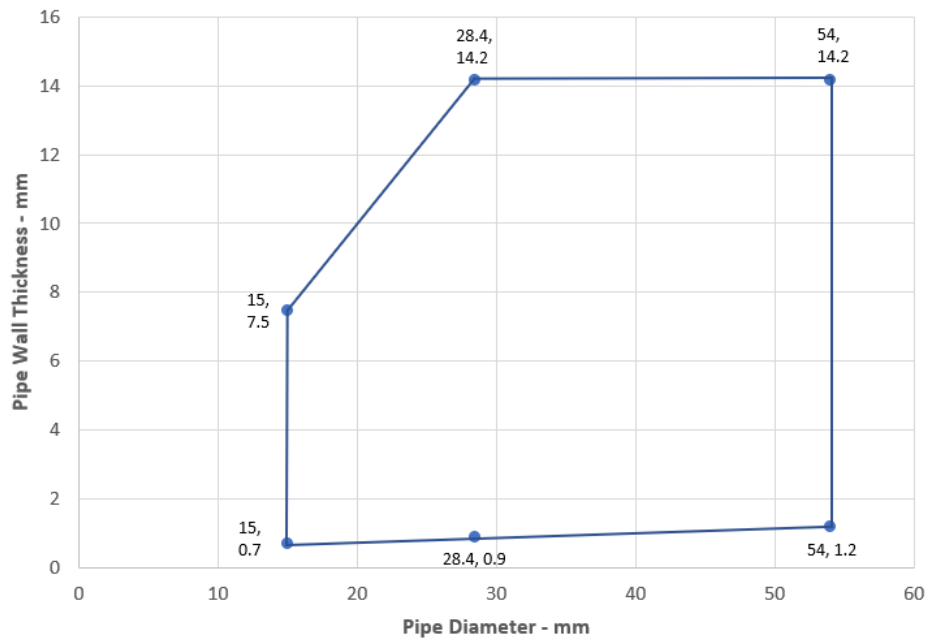
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



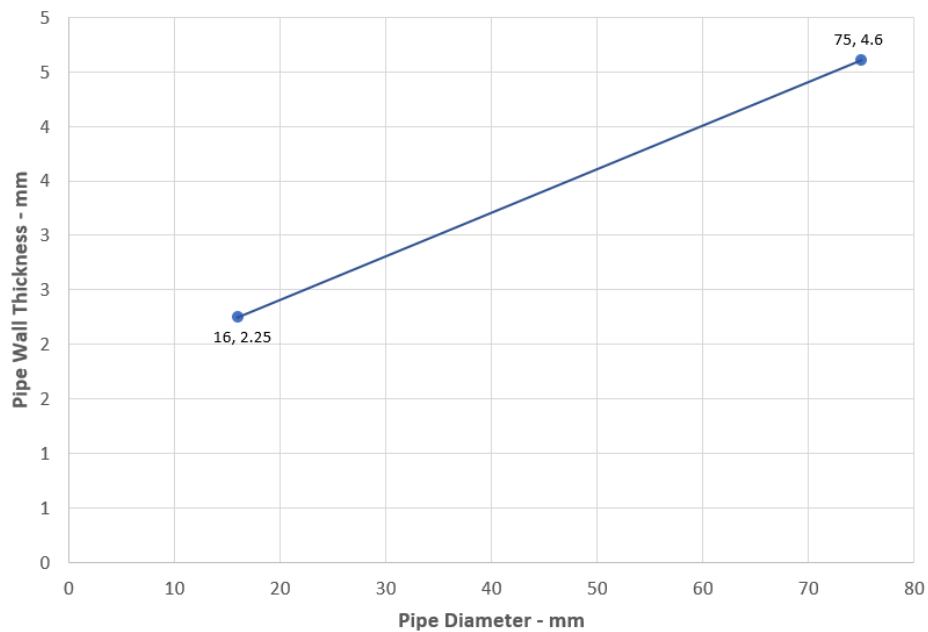
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

Copper or Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



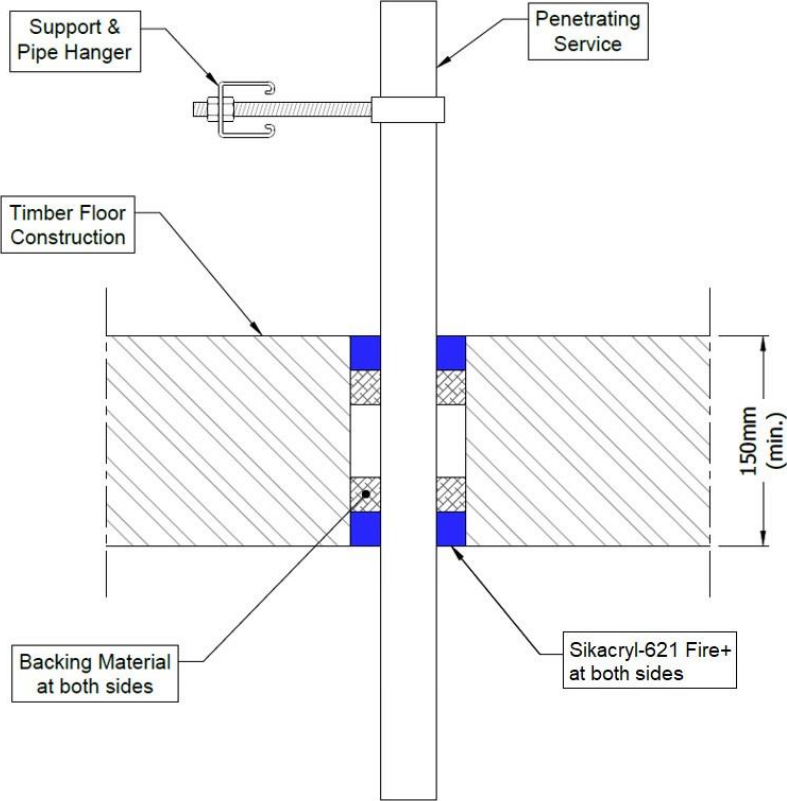
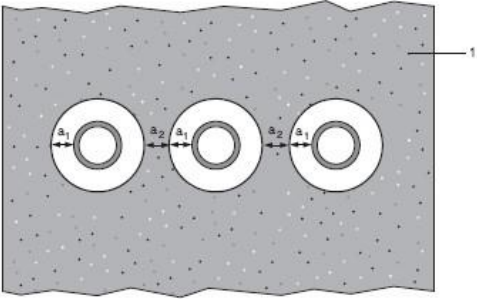
Alupex Pipes with Glass Wool or Mineral Wool Insulation - C/C



Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7.3 Double side penetration seal with plastic pipes and composite pipes

Penetration Seal: Plastic and composite pipes (single) fitted at any position within the aperture, with Sikacryl- 621 Fire+ to both sides of the floor, backed with stone, mineral wool min. 33 kg/m³. Minimum annular space 10 mm and maximum 30 mm (a1) and minimum separation between penetration seals 0 mm (a2).	
Construction details: 	
Configuration 1: 	
Key 1 Supporting construction a1 Pipe / edge of seal separation (annular space) a2 Separation between penetration seals	

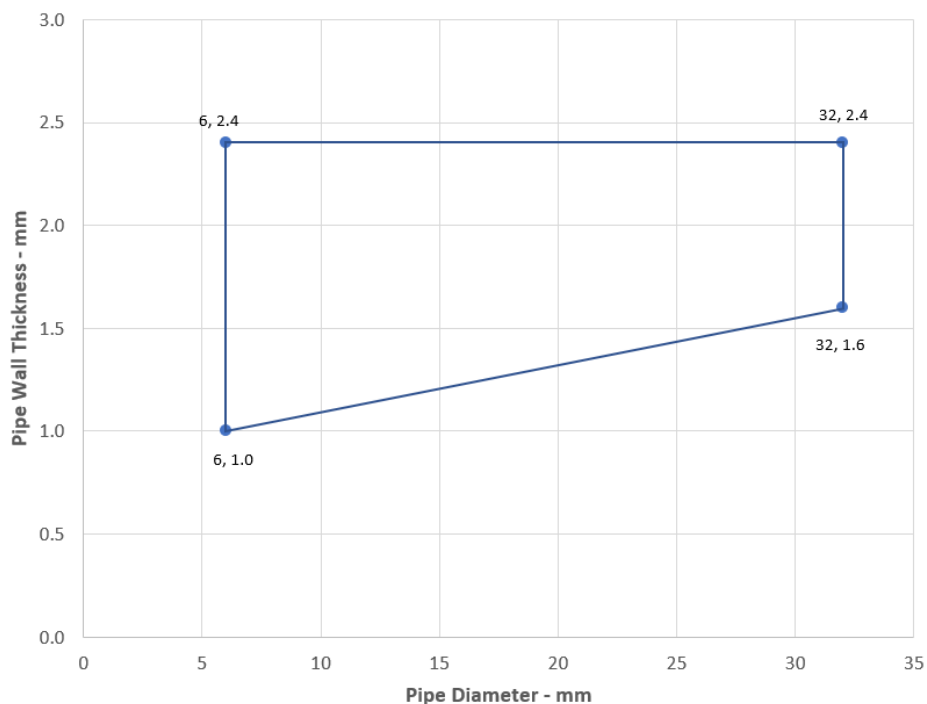
Declaration of Performance
Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

A.7.3.1

Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Maximum 32 mm diameter/1.0-2.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 120 U/C
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			
Maximum 32 mm diameter/2.0-3.0 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 120 U/C
PP pipe according to EN 1451-1 or DIN 8077/8078			
Maximum 32 mm diameter/1.8-4.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 120 U/C
PEX pipe in pipe system			
25 mm diameter outer /15 mm diameter x 2.5 mm wall inner	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 120 C/C

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

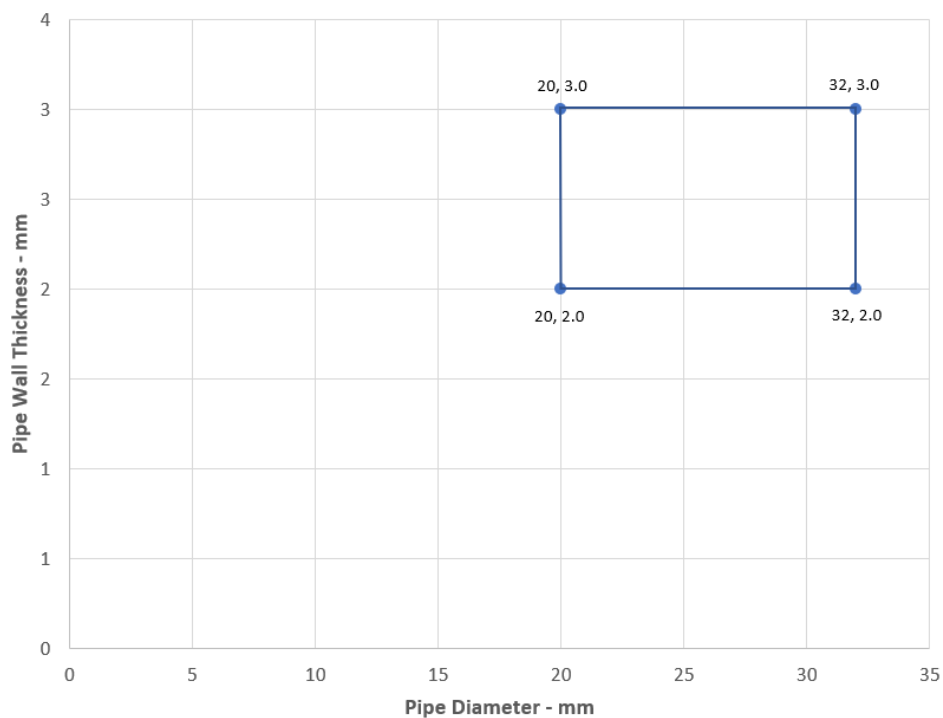
PVC-U Pipes EI 120 - U/C



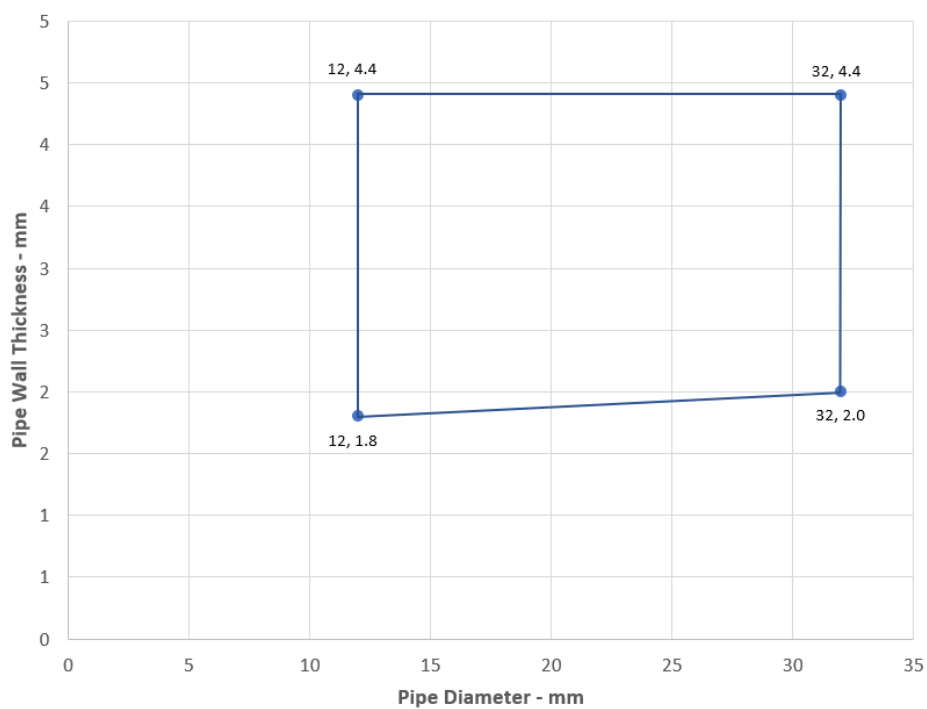
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Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

PE Pipes EI 120 - U/C



PP Pipes EI 120 - U/C

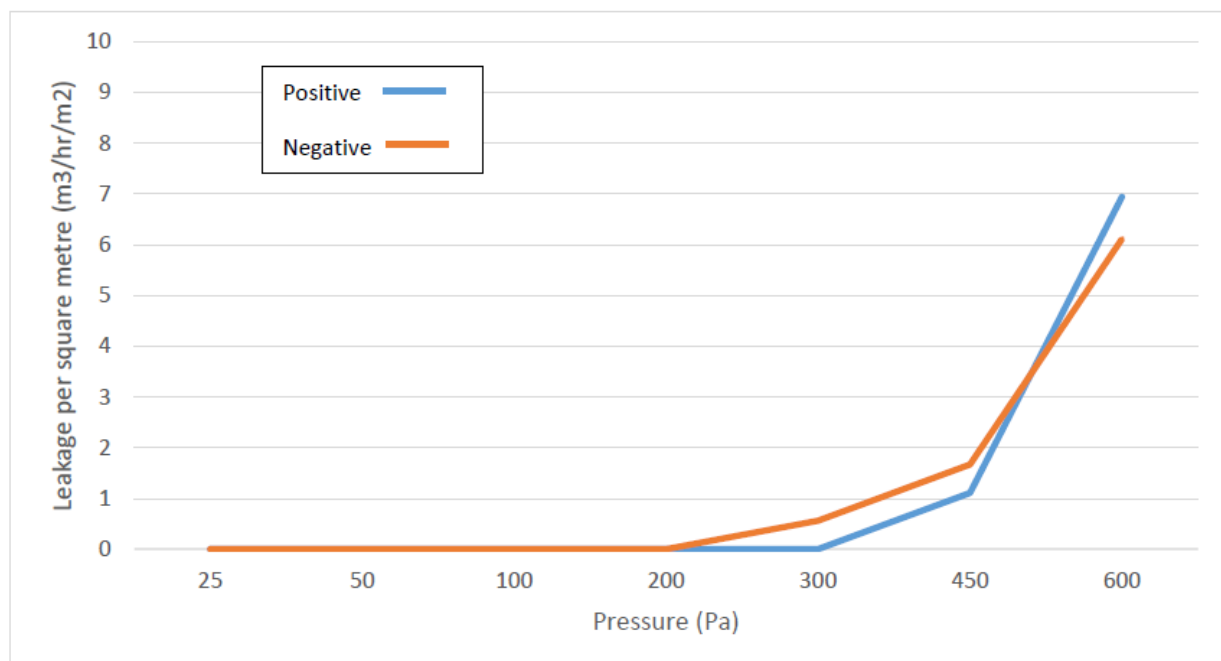


Declaration of Performance

Sikacryl®-621 Fire+
74951760
2025.01. , ver. 1
1549

ANNEX B – Air Permeability – Sikacryl-621 Fire+

Product tested	10mm deep x 30mm wide Sikacryl-621 Fire+		
	Summary of testing procedure		Result
	Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)
Results under negative chamber pressure	25	0.00	0.00
	50	0.00	0.00
	100	0.00	0.00
	200	0.00	0.00
	300	0.02	0.56
	450	0.06	1.67
	600	0.22	6.11
Results under positive chamber pressure	25	0.00	0.00
	50	0.00	0.00
	100	0.00	0.00
	200	0.00	0.00
	300	0.00	0.00
	450	0.04	1.11
	600	0.25	6.94



Declaration of Performance

Sikacryl®-621 Fire+
 74951760
 2025.01. , ver. 1
 1549

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

<http://dop.sika.com>

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74951760
2025.01. , ver. 1
1549

179/180

BUILDING TRUST



CE MARKING TO BE PLACED ON THE LABEL

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Sika Services AG, Zurich, Switzerland
DoP No. 74951760
Notified Body 2531
For details see ETA 23/0964 of 30/04/2024 and accompanying documents
EAD 350454-00-1104:2017
Fire Stopping and Sealing Product: Penetration Seals

<http://dop.sika.com>

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

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74951760
2025.01. , ver. 1
1549