

Sikacryl®-621 Fire+

LEISTUNGSERKLÄRUNG Nr. 74951760

1	EINDEUTIGER KENNCODE DES PRODUKTTYPUS:	74951760
2	VERWENDUNGSZWECK(E)	EAD 350454-00-1104:2017 Abschottungen zum Abdichten und Verschließen von Fugen und Öffnungen und zum Aufhalten von Feuer im Brandfall
3	HERSTELLER:	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	BEVOLLMÄCHTIGTER:	
5	SYSTEM(E) ZUR BEWERTUNG UND ÜBERPRÜFUNG DER LEISTUNGSBESTÄNDIGKEIT:	System 1
6b	EUROPÄISCHES BEWERTUNGSDOKUMENT:	EAD 350454-00-1104:2017
	Europäische Technische Bewertung:	ETA 23/0964 vom 30.04.2024
	Technische Bewertungsstelle:	UL International (Netherlands) B.V.
	Notifizierte Stelle(n):	2531

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

7 ERKLÄRTE LEISTUNG(EN)

Wesentliche Eigenschaften	Leistung	Systeme	Harmonisierte technische Spezification
Brandverhalten	B – s1, d0	System 1	EAD 350454-00-1104:2017
Feuerwiderstand	Anhang A	System 1	
Luftdichtheit	Anhang B	System 1	
Wasserdichtheit	Nicht getestet	System 1	
Freisetzung umwelt- und/oder gesundheitsgefährdender Substanzen	Nutzungsklasse IA1, S/W2	System 1	
Mechanischer Widerstand und Stabilität	Nicht getestet	System 1	
Schlagwiderstand	Nicht getestet	System 1	
Haftung	Nicht getestet	System 1	
Dauerhaftigkeit	Z2	System 1	
Schalldämmung	Rw(C;Ctr)= 62 (-1;-5) dB	System 1	
Thermische Eigenschaften	Nicht getestet	System 1	
Wasserdampfdurchlässigkeit	Nicht getestet	System 1	

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

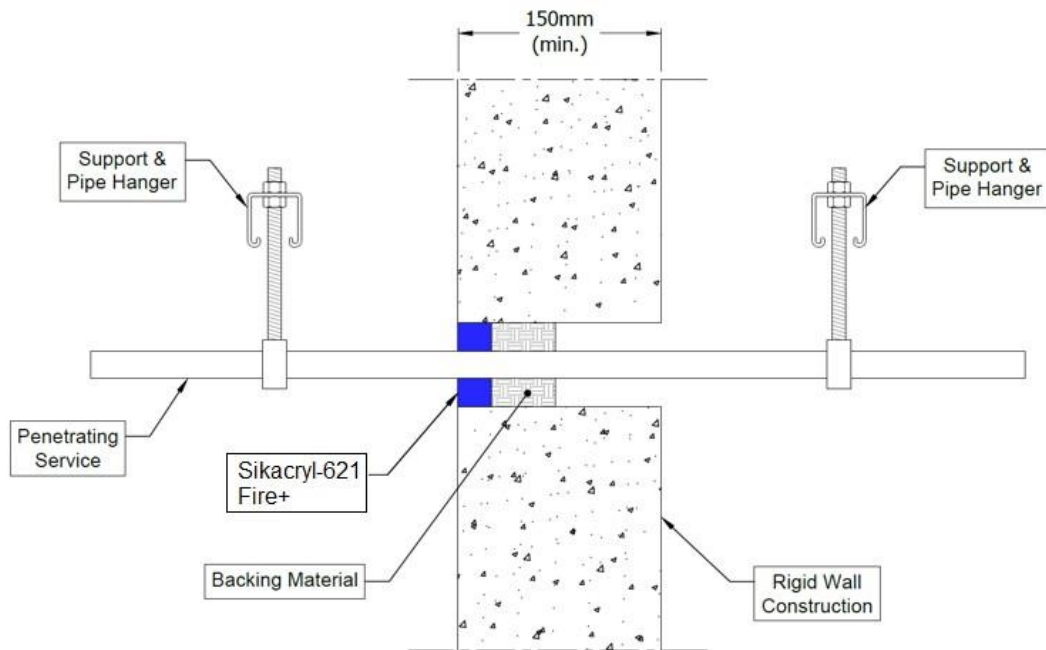
ANHANG A – Klassifizierung des Feuerwiderstands – Sikacryl-621 Fire+

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	
Blank seals	25 mm	48 mm AES Fibre $\geq 128\text{kg/m}^3$ insulation		35 x 35 mm / 36 mm \varnothing
Electric cables up to 21 mm diameter, single.				

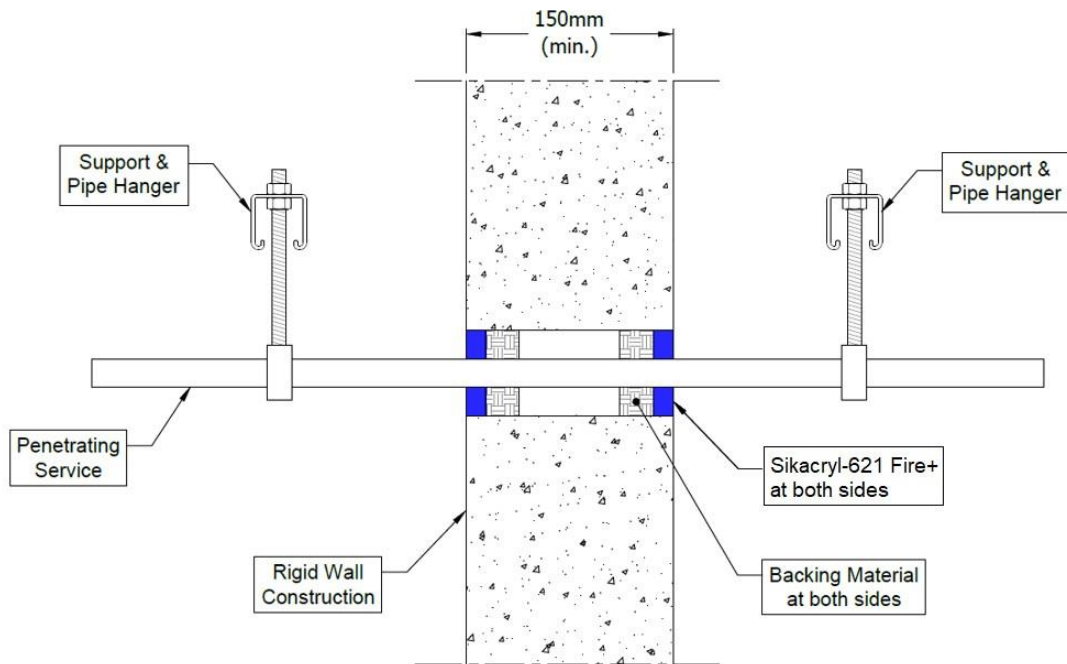
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
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

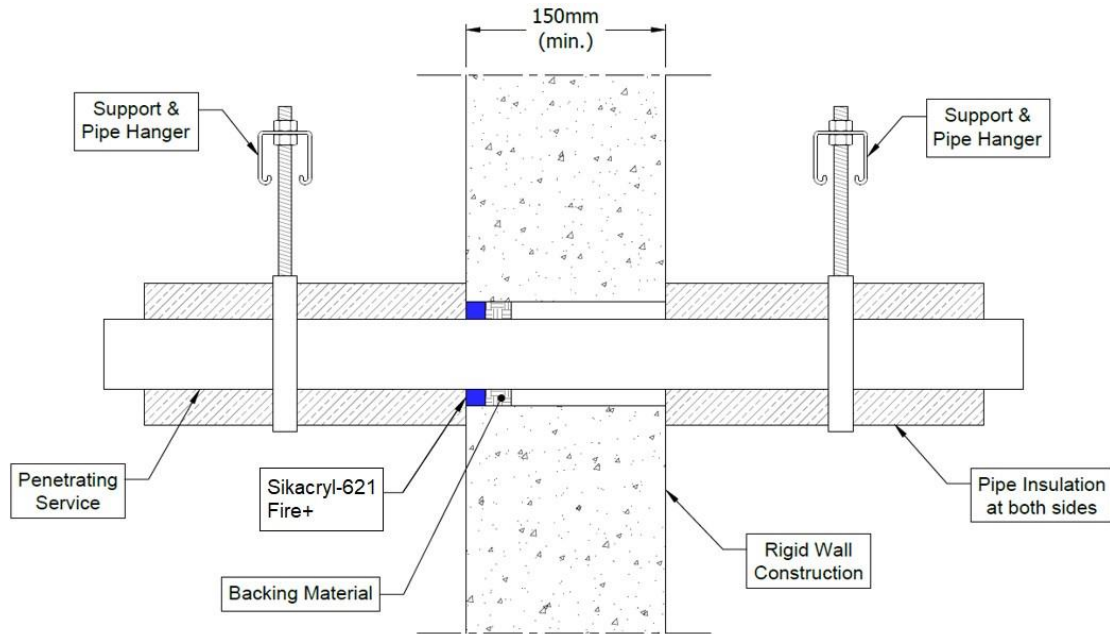
Services	Sealant depth	Backing (minimum)	Insulation	Classification
Blank seals	15 mm	25 mm Stone wool 35 kg/m ³	None	EI 240
Electric cables up to 21 mm diameter, single or in a bundle.				E 240, EI 120
Electric cables 22-80 mm diameter, single or in a bundle.				E 120, EI 60
Blank seals	25 mm	48 mm AES Fibre ≥ 128kg/m ³		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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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

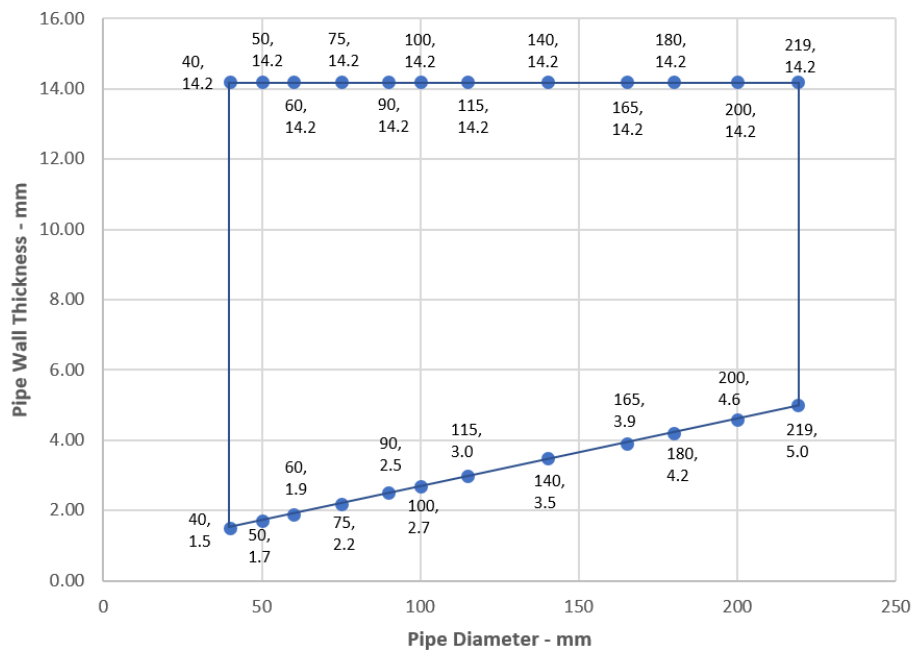
Services	Seal width around pipe	Insulation (minimum)	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	8-9 mm	1000 mm length 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 180 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall	8 mm		EI 240 C/U
Alupex composite pipe 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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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



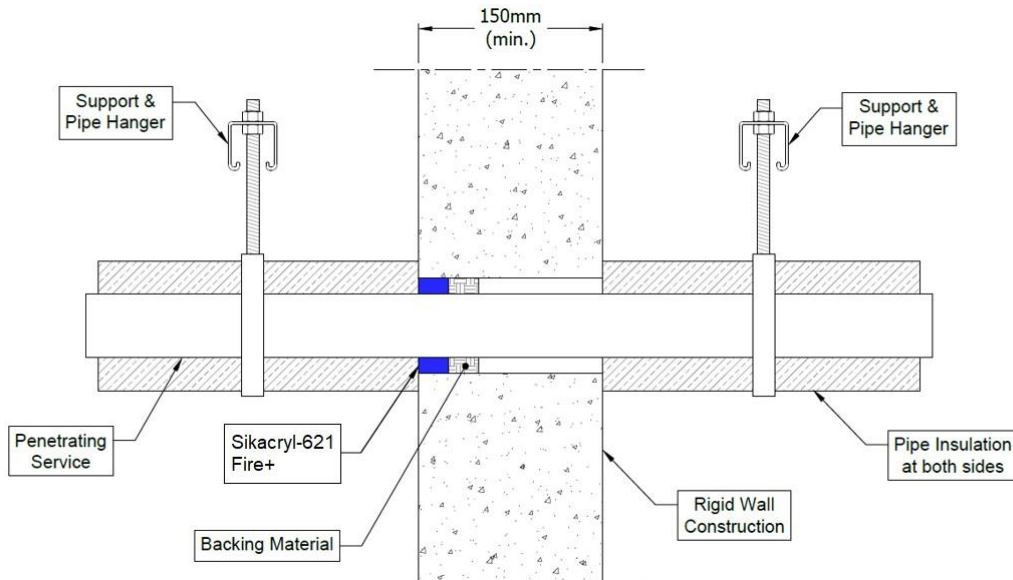
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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:



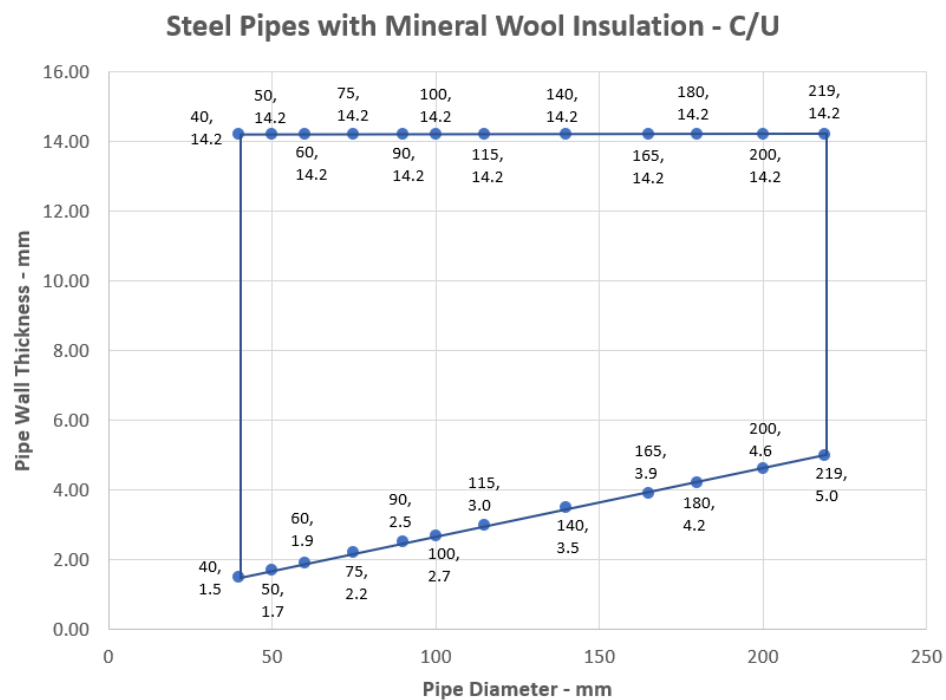
A.1.4.1

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.)	

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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*			
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*			
		1000 mm length of 30 mm Stone wool insulation 80 kg/m ³	

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



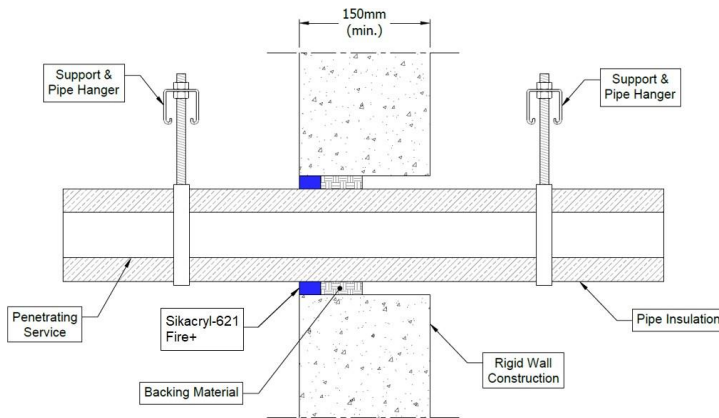
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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*		

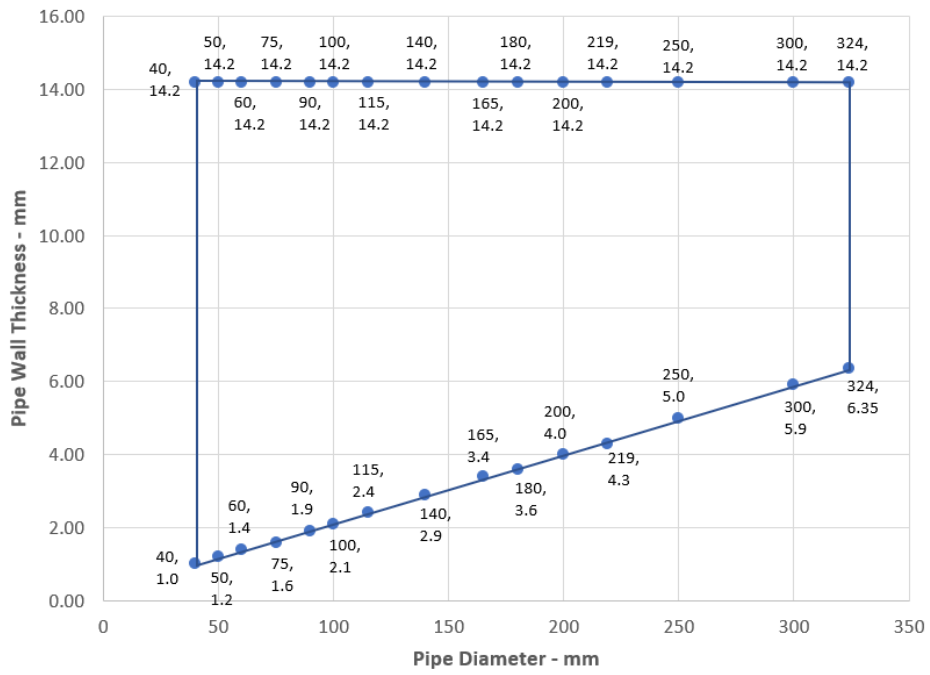
* Typical pipe diameters shown, see below graph for intermediate sizes

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

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Steel Pipes with Mineral Wool Insulation - C/U



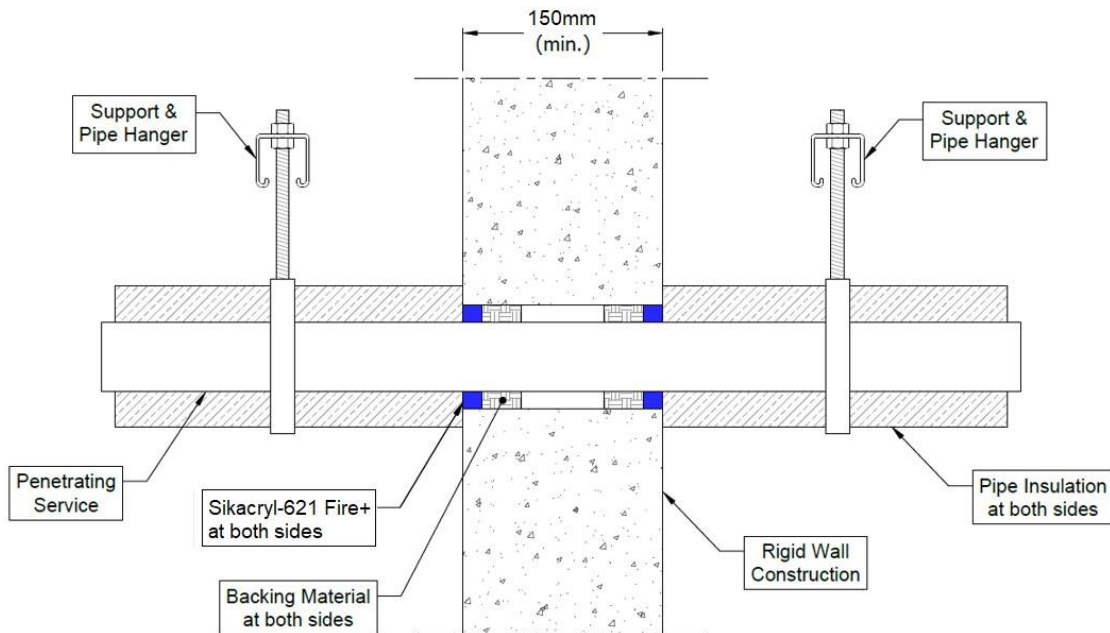
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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

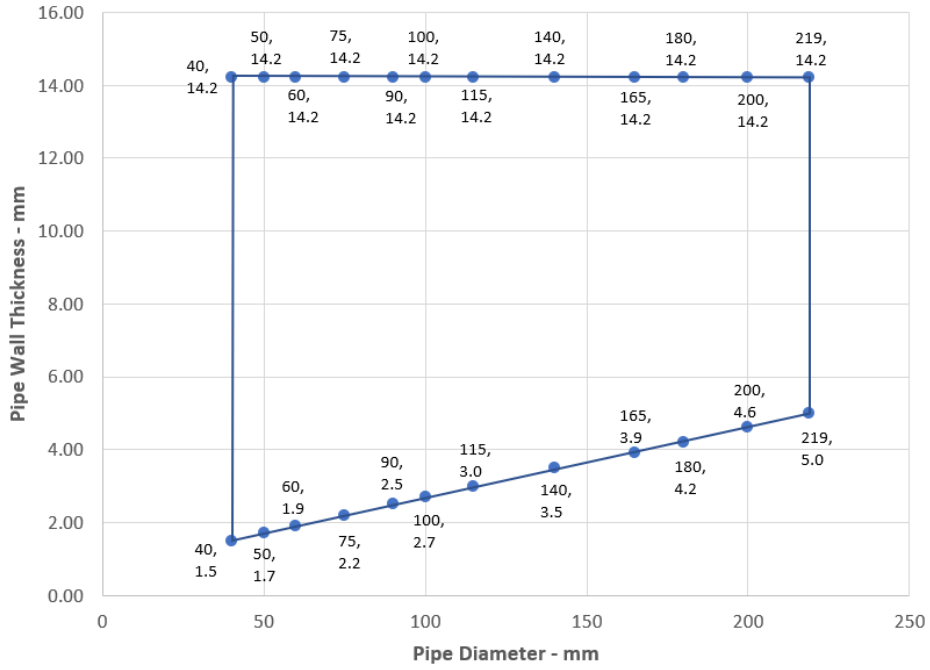
Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	300 x 300 mm	20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1.5-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m ³	E 240, EI 120 C/U
50 mm diameter/1.7-14.2 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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

Steel Pipes with Mineral Wool Insulation - C/U



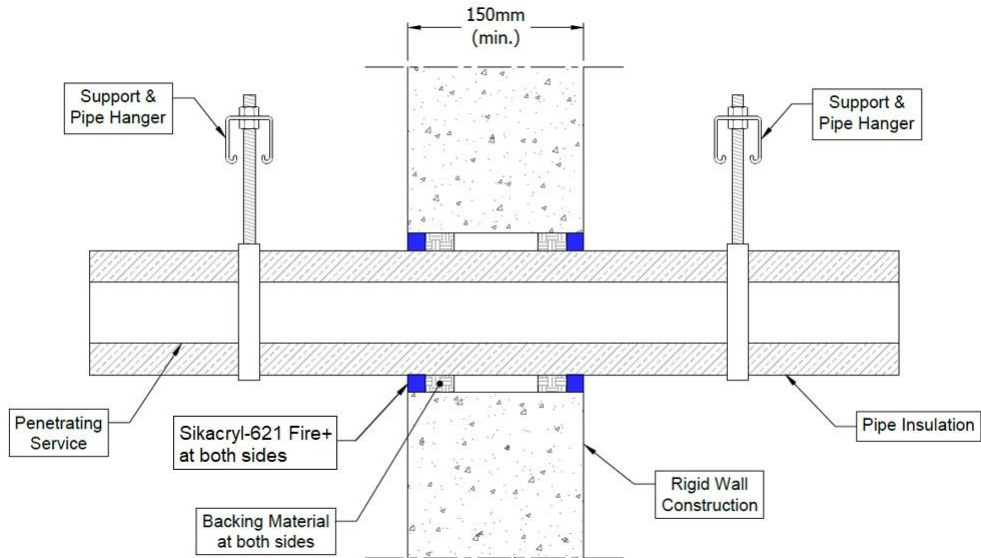
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



A.1.7 Double side penetration seal with metallic pipes

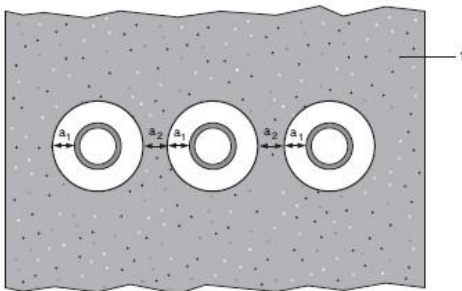
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between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

Construction details:



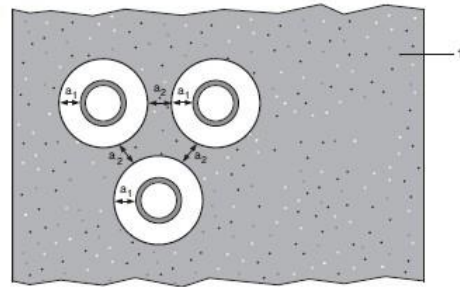
Configuration 1:

Option 1



Configuration 2:

Option 2



Key

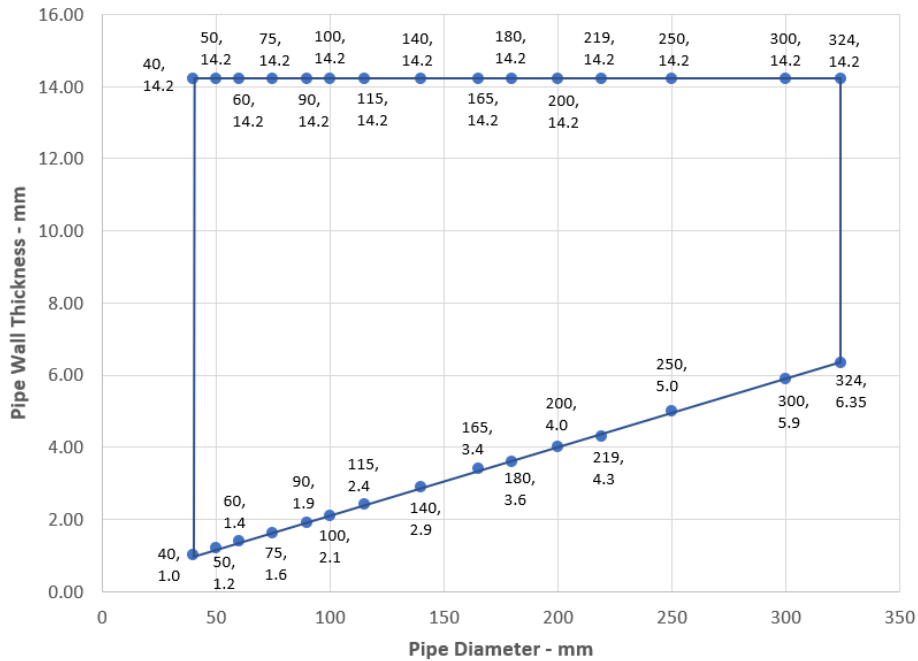
- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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



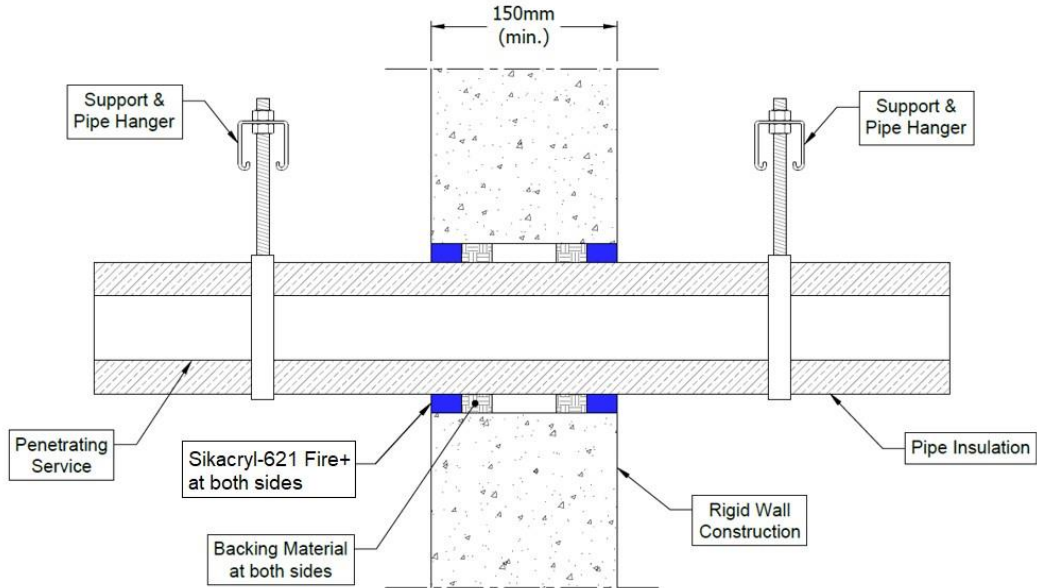
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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

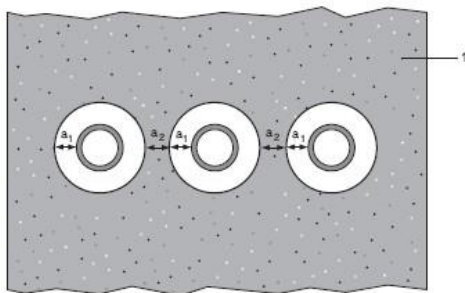
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between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

Construction details:



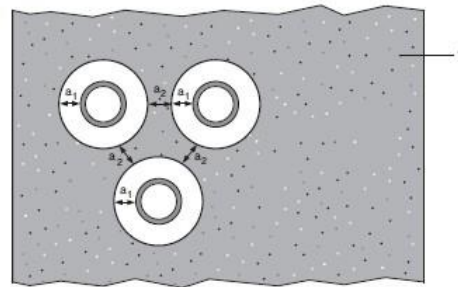
Configuration 1:

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

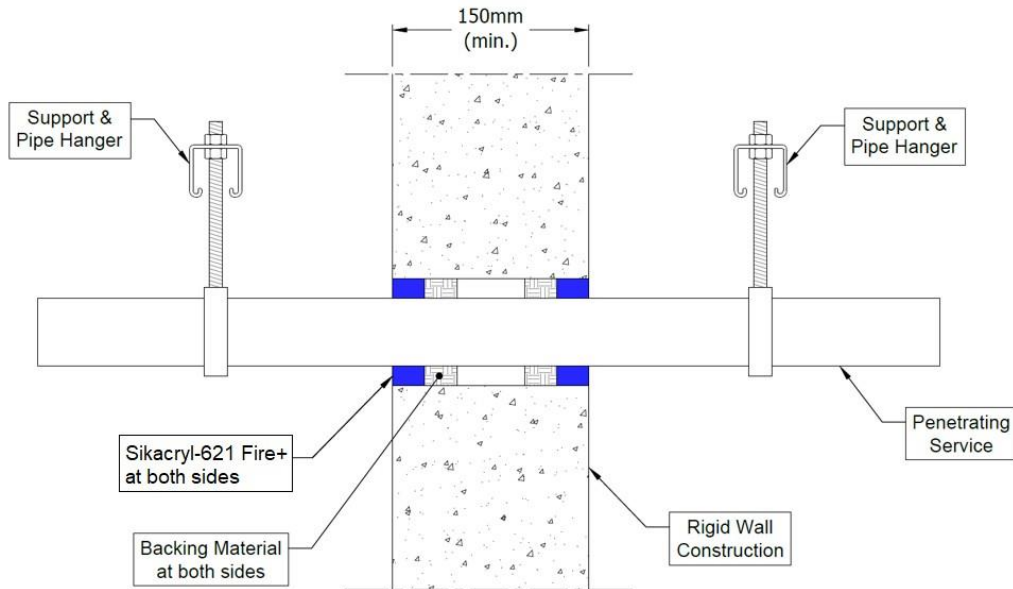
A.1.8.1 Double side penetration seal with metallic pipes with combustible insulation

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

A.1.9 Double side penetration seal with plastic pipes

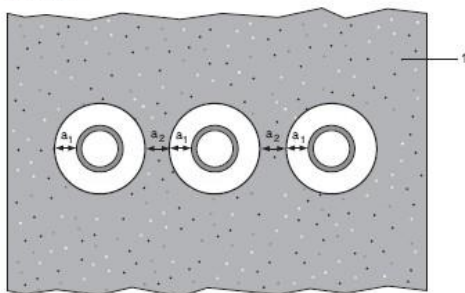
Penetration Seal: Plastic and metal pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm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

Construction details:



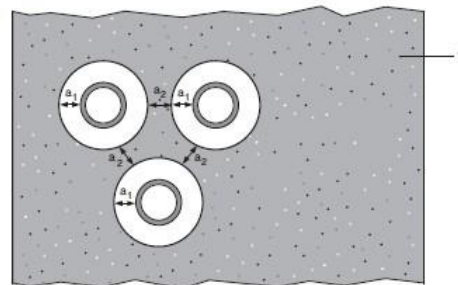
Configuration 1:

Option 1



Configuration 2:

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

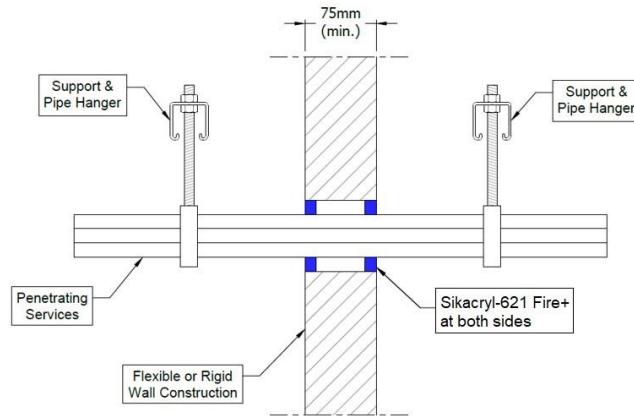
Pipe material	Size	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1	6-32 mm diameter/1.0-2.4 mm wall	EI 240 U/C
PVC with bundle of cables up to 21 mm diameter	6-32 mm diameter/1.0-2.4 mm wall	E 240 U/C, EI 120 U/C
PVC with bundle of cables up to 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

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 \varnothing) 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

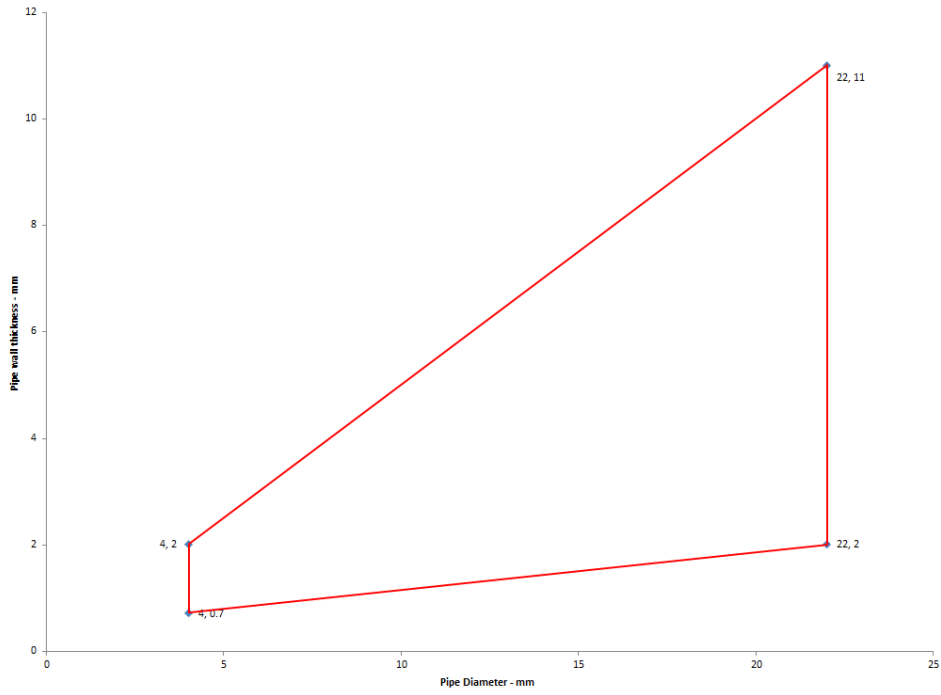
Services	Sealant depth	Backing	Classification
None (blank)	12.5 mm	Any material	EI 60
Cables up to 21 mm \varnothing , single		None	E 60, EI 45
Cables up to 21 mm \varnothing , in bundles up to 100 mm \varnothing			E 45, EI 30
Mild or stainless steel pipe	12.5 mm	None	E 60 C/U, EI 45 C/U
4 mm diameter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

* See below graphs for interpolated pipe sizes

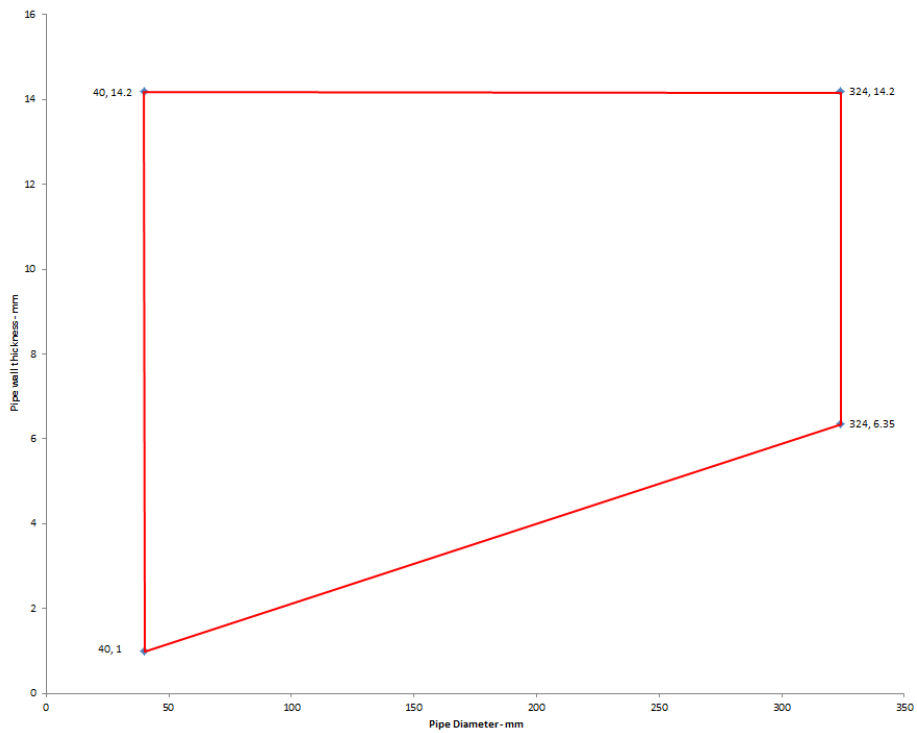
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

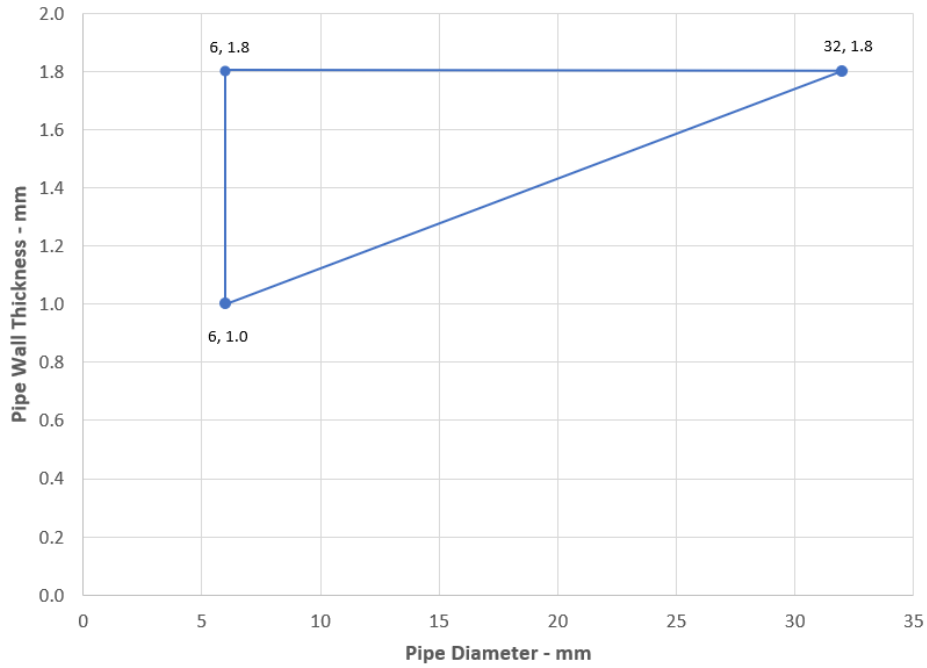
Steel Pipe- E 60 U/C, EI 30 U/C



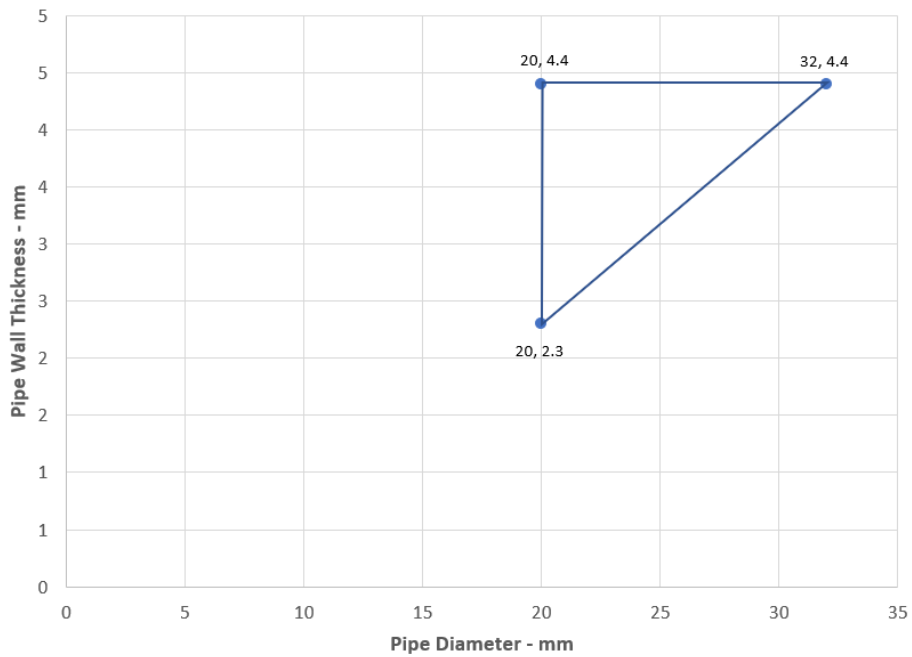
Steel pipes with 30 mm Insulation



PVC-U Pipes - U/C



PP Pipes - EI 30 U/C



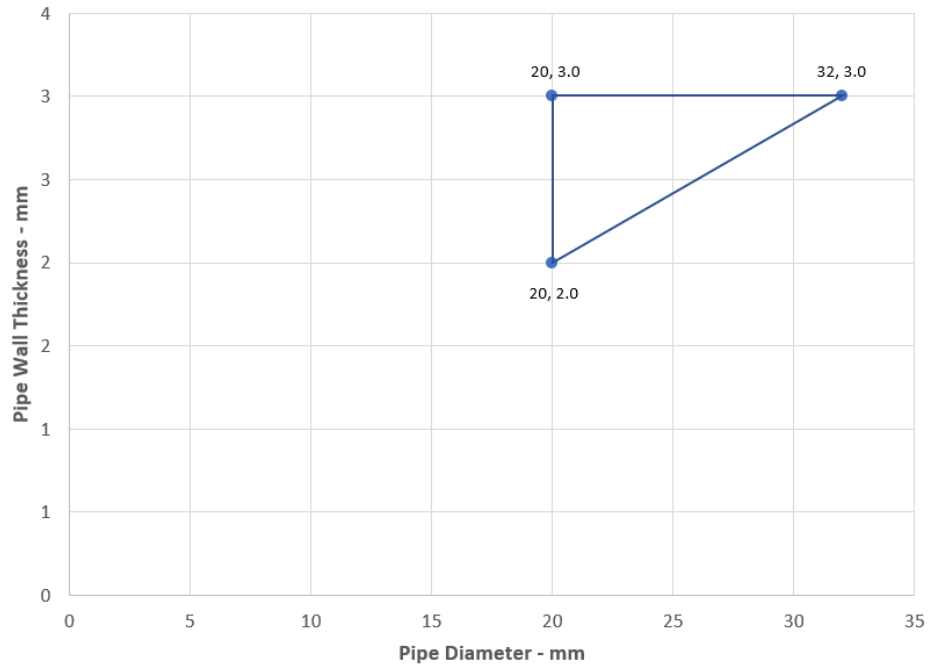
Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

21/179

BUILDING TRUST



PE Pipes - EI 30 U/C



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

22/179

BUILDING TRUST

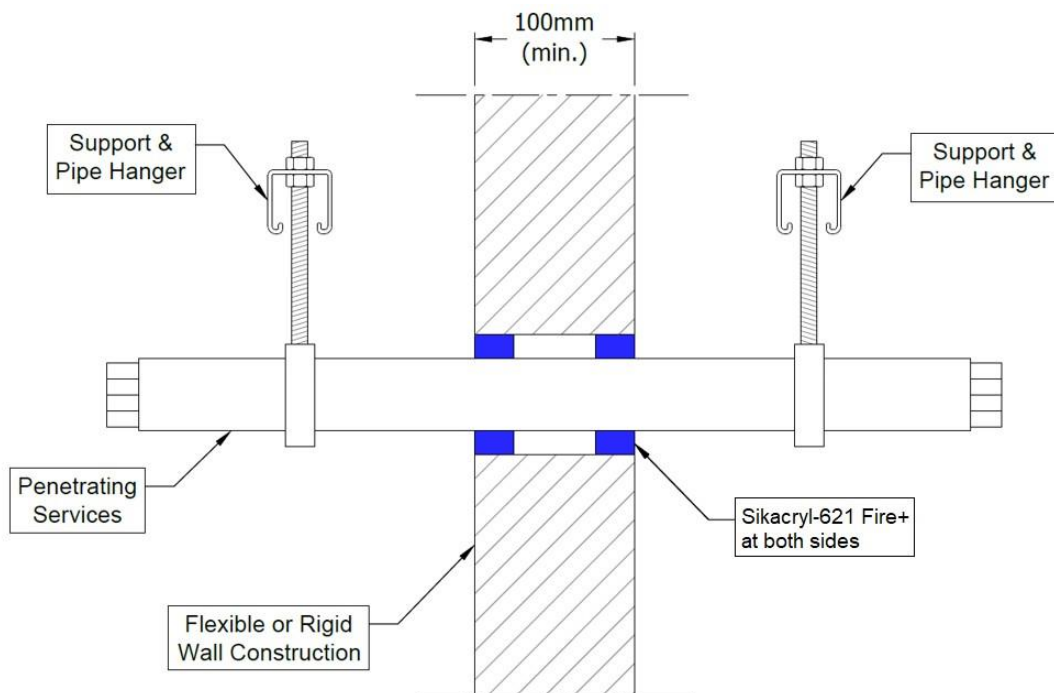
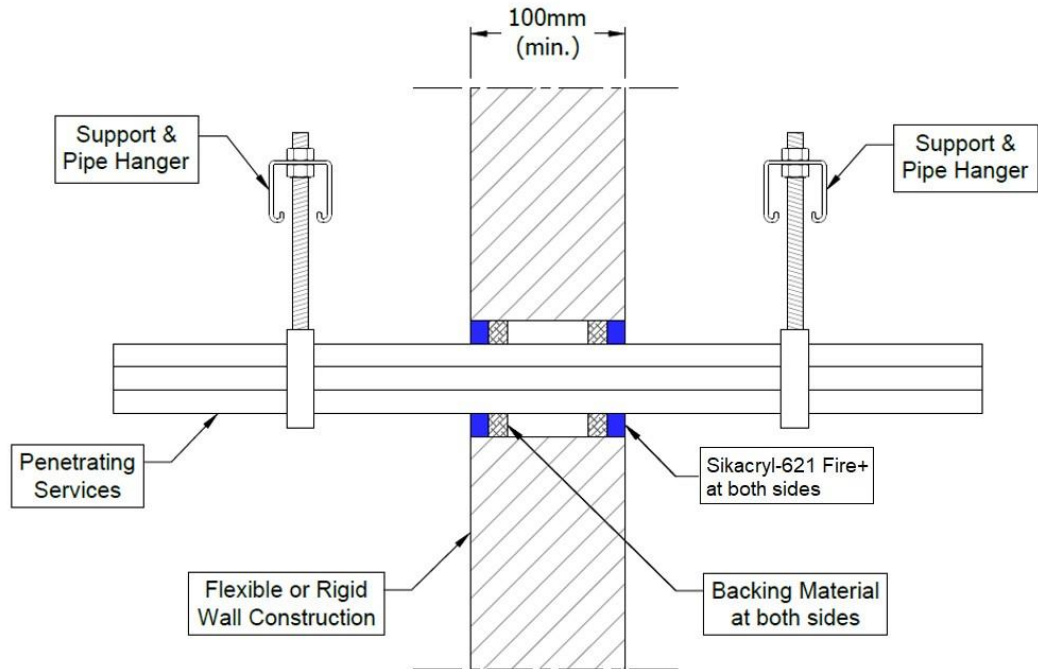


A.3 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 100 mm

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:



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
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

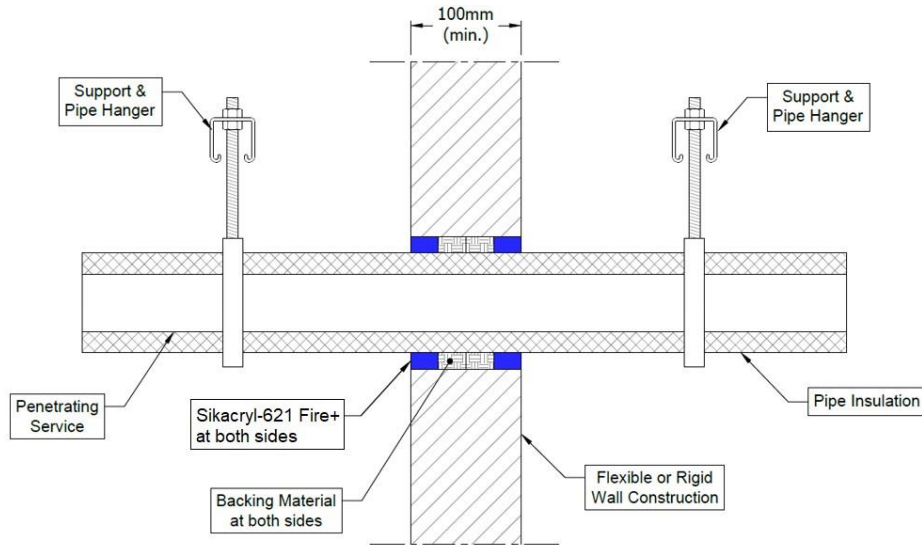
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
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

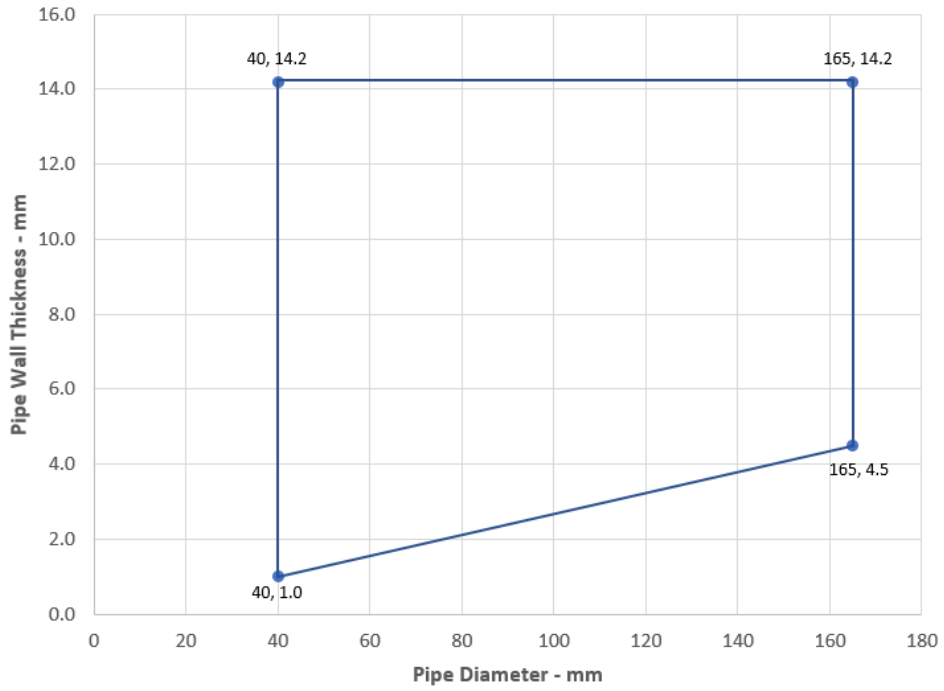
Services	Sealant depth	Backing (minimum)	Insulation	Classification
Mild or stainless steel pipe				
22 mm diameter/3-10 mm wall	25 mm	Stone wool 25 mm deep 35 kg/m ³	None	EI 120 C/C
Maximum 165 mm diameter/ wall*	12.5 mm	12.5 mm stone wool 33 kg/m ³	9 mm Elastomeric insulation minimum class D-s3, d0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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

Steel Pipes with Elastomeric Insulation - C/U



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549



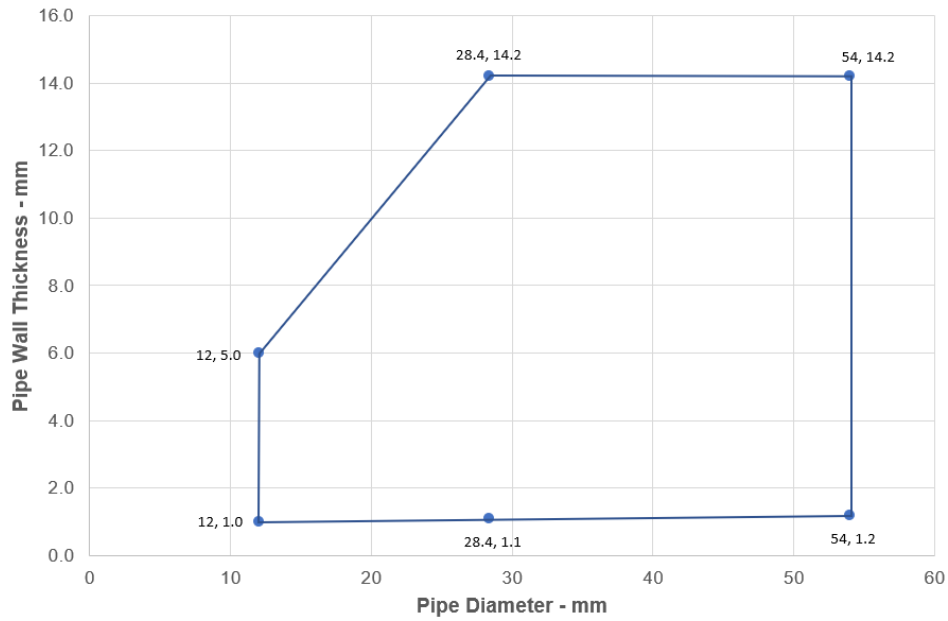
Services	Sealant depth	Backing	Insulation	Classification
Copper or steel pipe				
12 mm diameter/1-6 mm wall	25 mm	25 mm AES Fibre \geq 128kg/m ³	9 mm Elastomeric insulation minimum class B-s3,d0	EI 120 C/C
12-54 mm diameter/1-14.2 mm wall*			9-18 mm Elastomeric insulation minimum class B-s3,d0	E 120 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/m ³	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	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 \geq 128kg/m ³	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

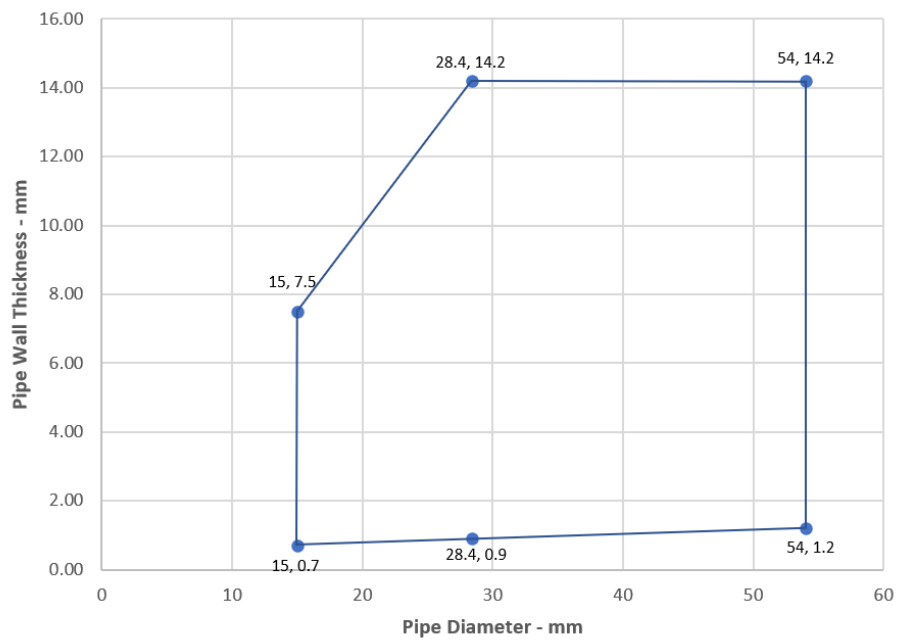
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

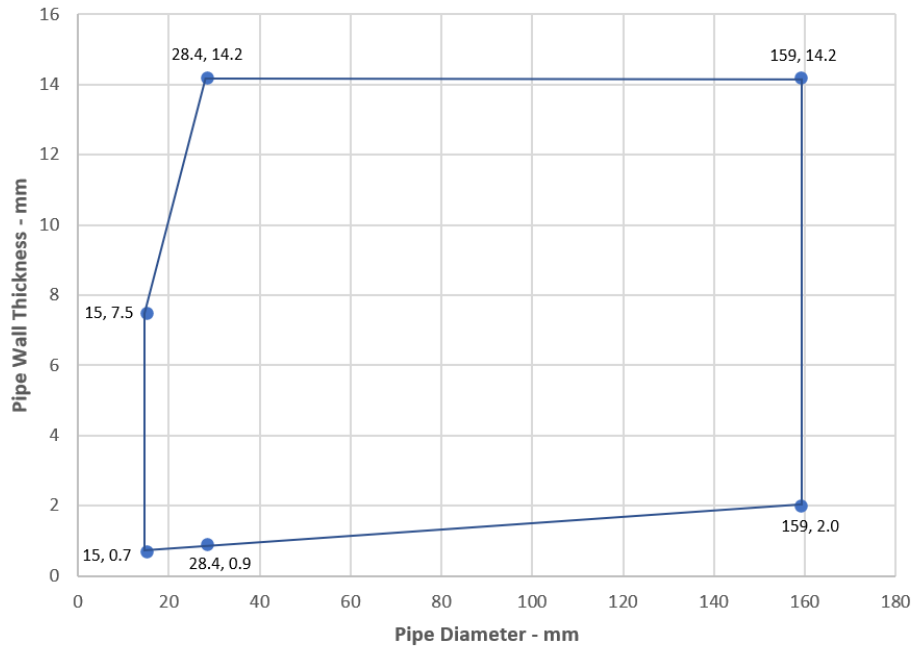
Copper or Steel Pipes with Elastomeric Insulation - C/C



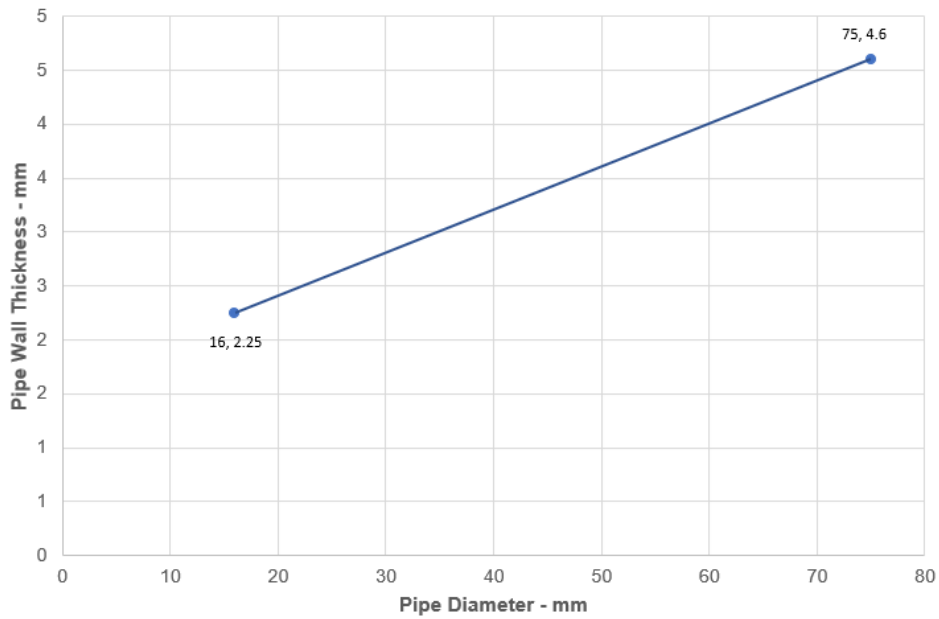
Copper or Steel Pipes with Phenolic Foam Insulation - C/C



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



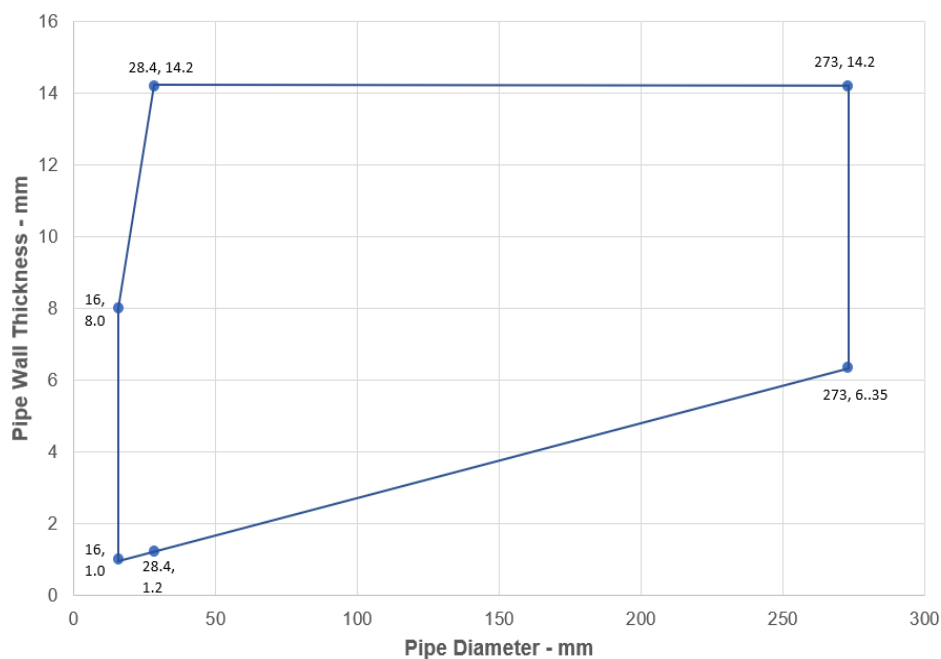
Alupex Pipes with Elastomeric Insulation - C/C



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

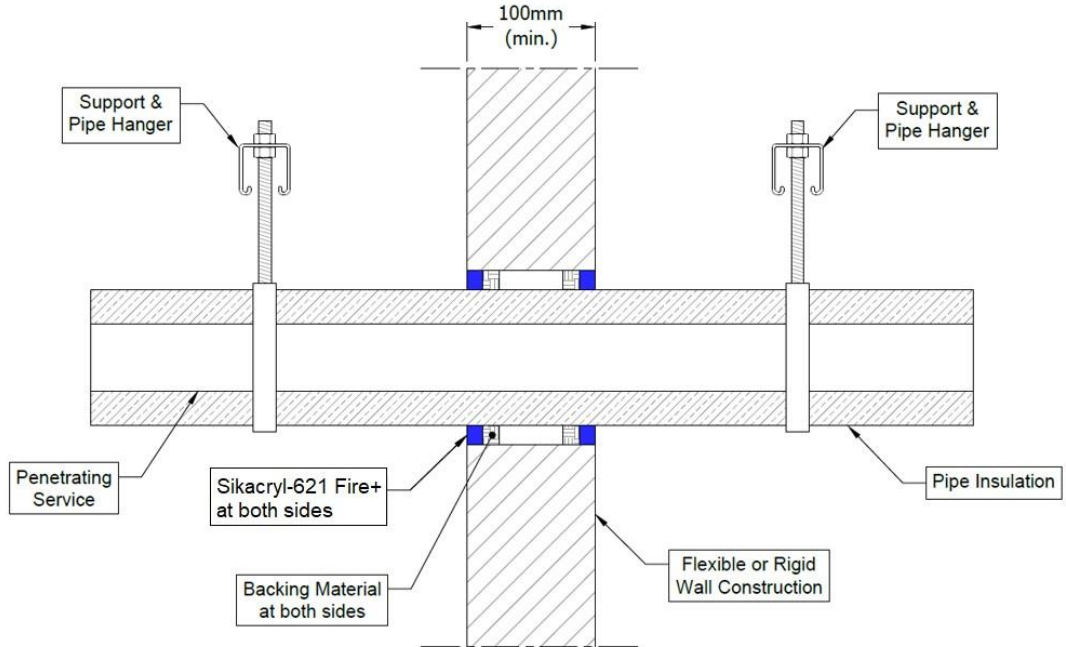


Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

A.3.3 Double side penetration seal with metallic pipes

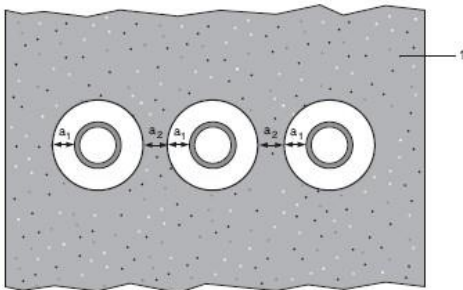
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 12.5 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 12.5 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation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

Construction details:



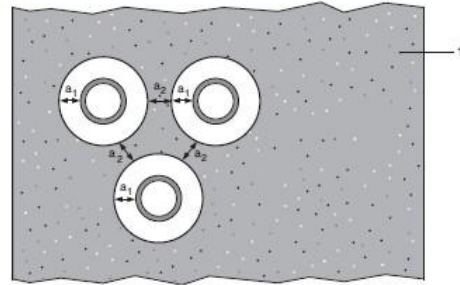
Configuration 1:

Option 1



Configuration 2:

Option 2



Key

1 Supporting construction

a1 Pipe / top edge of seal separation

a2 Pipe / side edge of seal separation

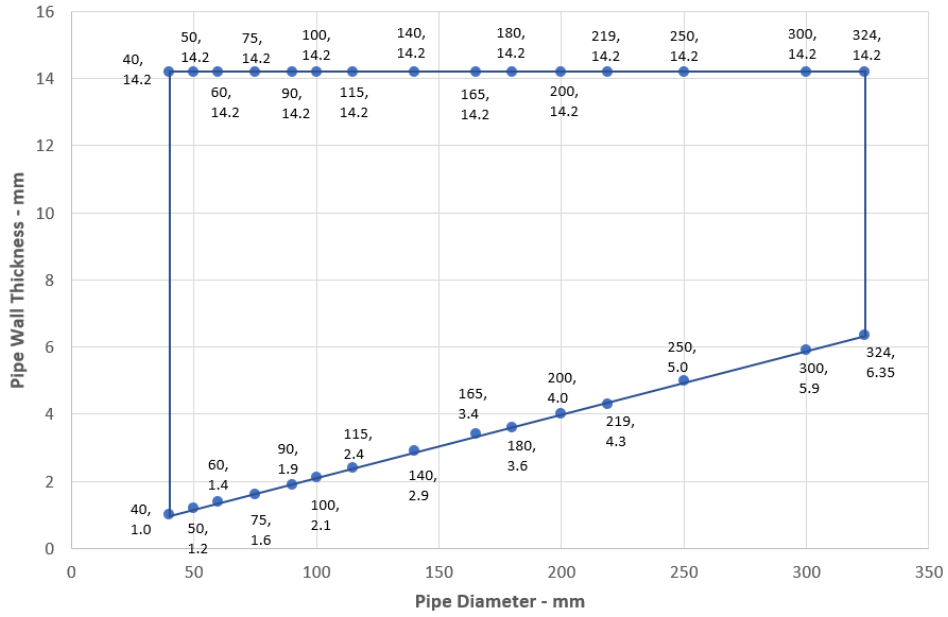
a3 Pipe / pipe separation

A.3.3.1 Double side penetration seal with pipes

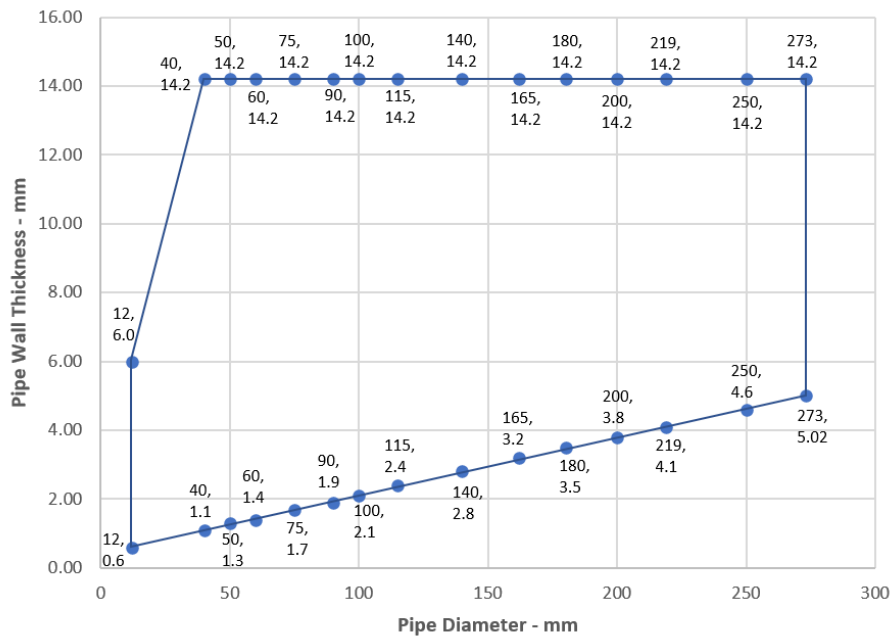
Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	E 120 C/U EI 90 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	
50 mm diameter/1.2-14.2 mm wall*		
60 mm diameter/1.4-14.2 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*		

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

Steel Pipes with Mineral Wool Insulation - C/U



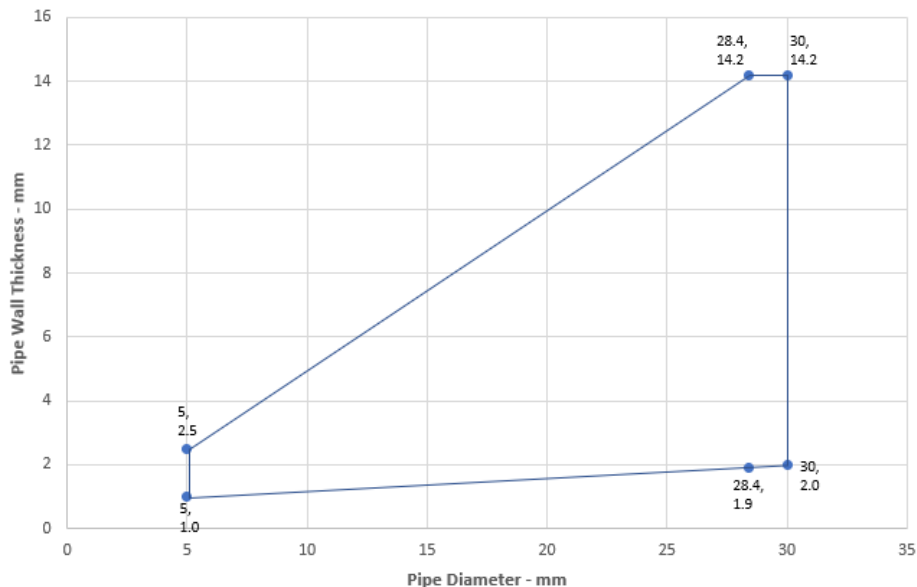
Steel Pipes with Glass or Stone Wool Insulation - C/C



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

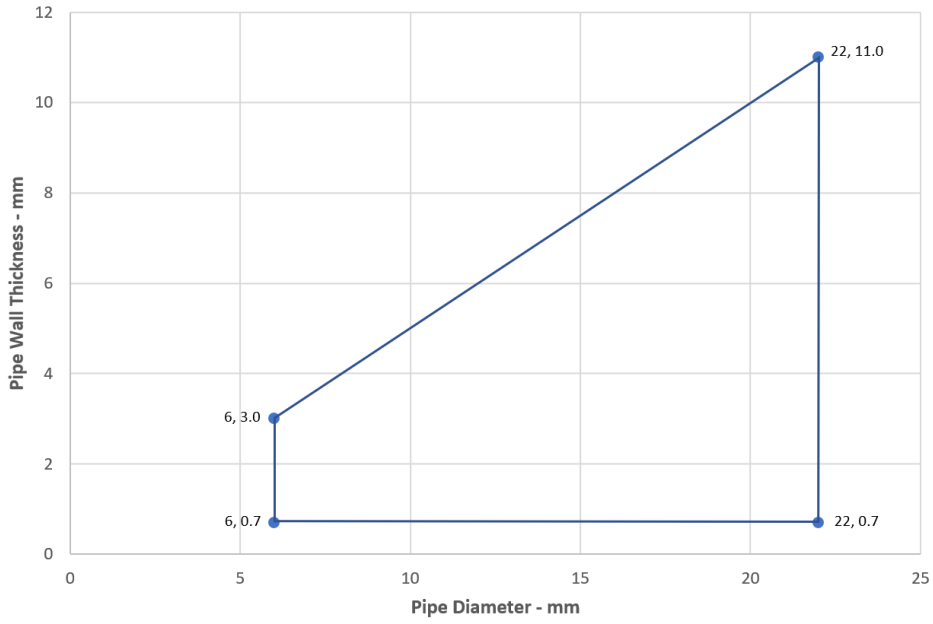
* See below graphs for interpolated pipe sizes

Steel Pipes - C/C

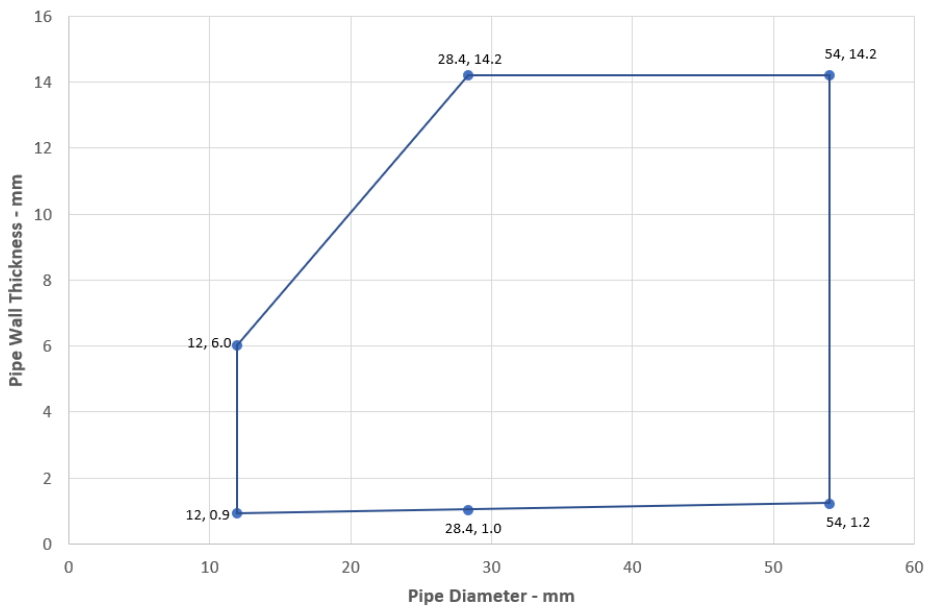


Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

Copper or Steel Pipes - C/C



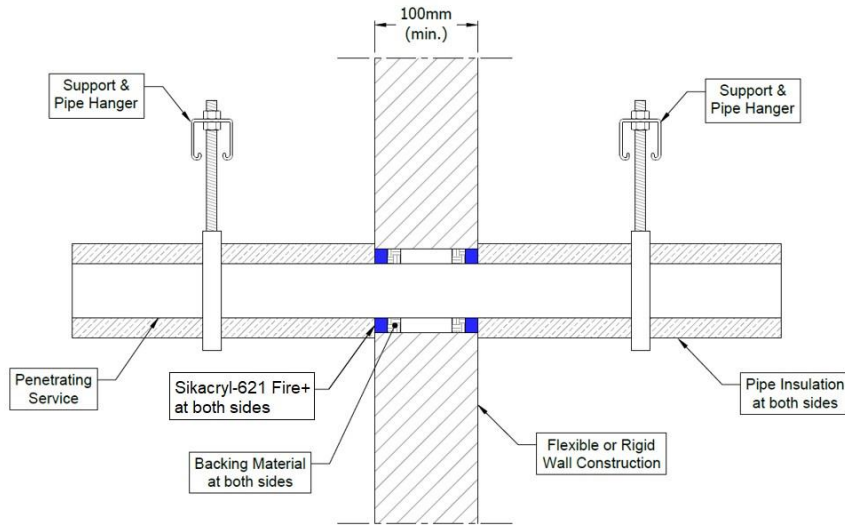
Copper or Steel Pipes with Mineral Wool Insulation - C/C



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	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
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				

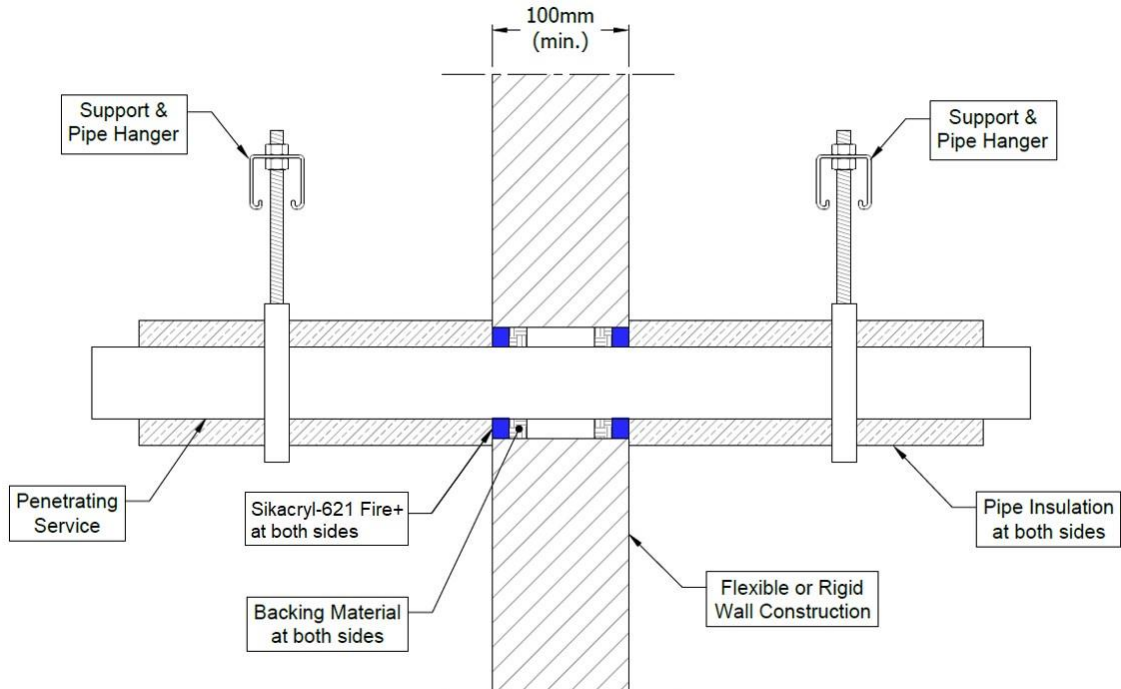
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

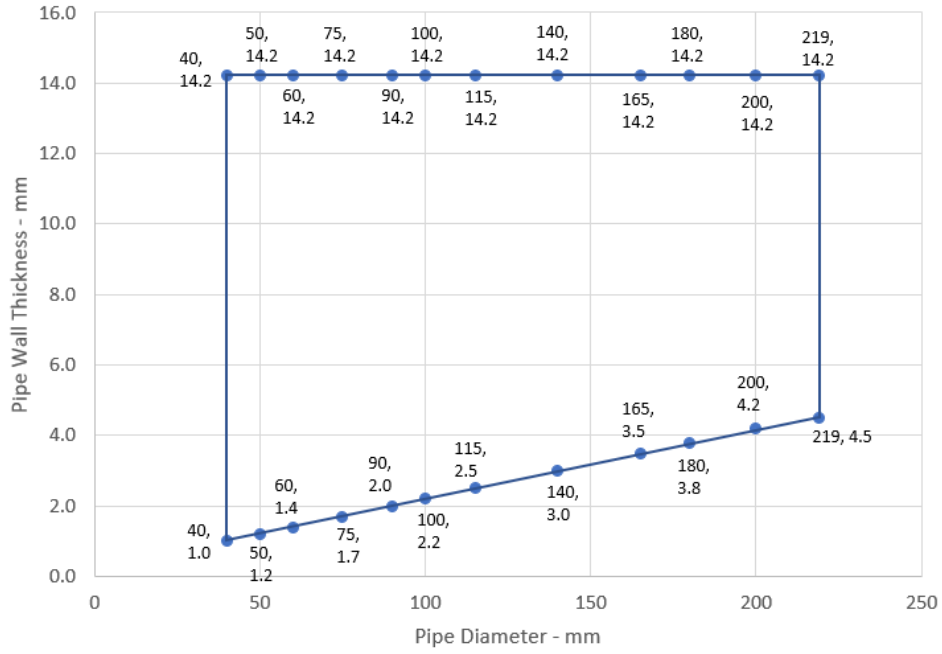
Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Mild or stainless steel pipe				
Maximum aperture size 300 x 300 mm				
40 mm diameter/1-14.2 mm wall	12.5 mm	20mm Stone wool 40 kg/m ³	500 mm length of 20 mm stone wool 80 kg/m ³	EI 120 C/U
40 mm diameter/1-14.2 mm wall*			500 mm length of 30 mm stone wool 80 kg/m ³	
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

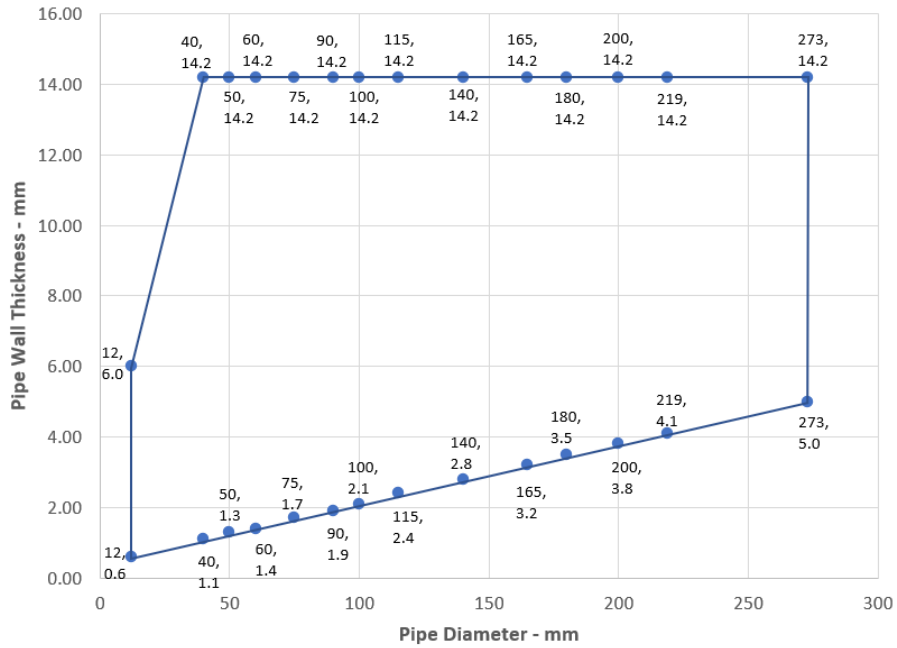
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

Steel Pipes with Mineral Wool Insulation - C/U



Steel Pipes with Glass Wool Insulation - C/C



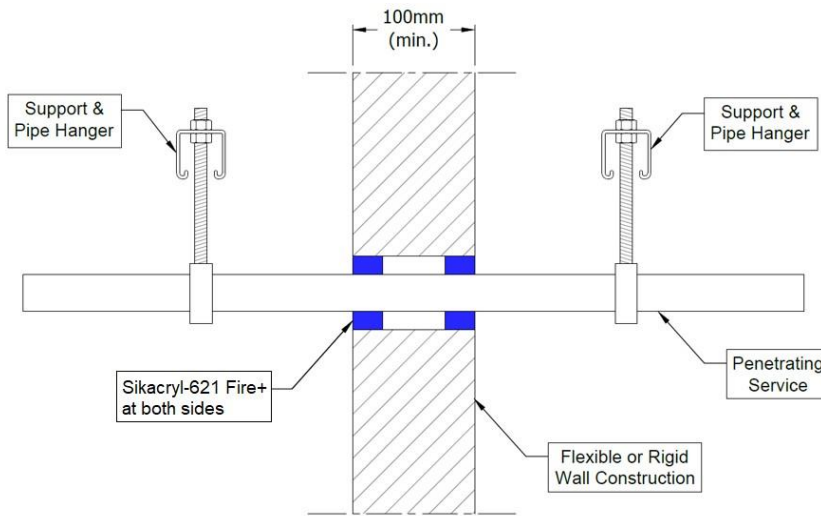
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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

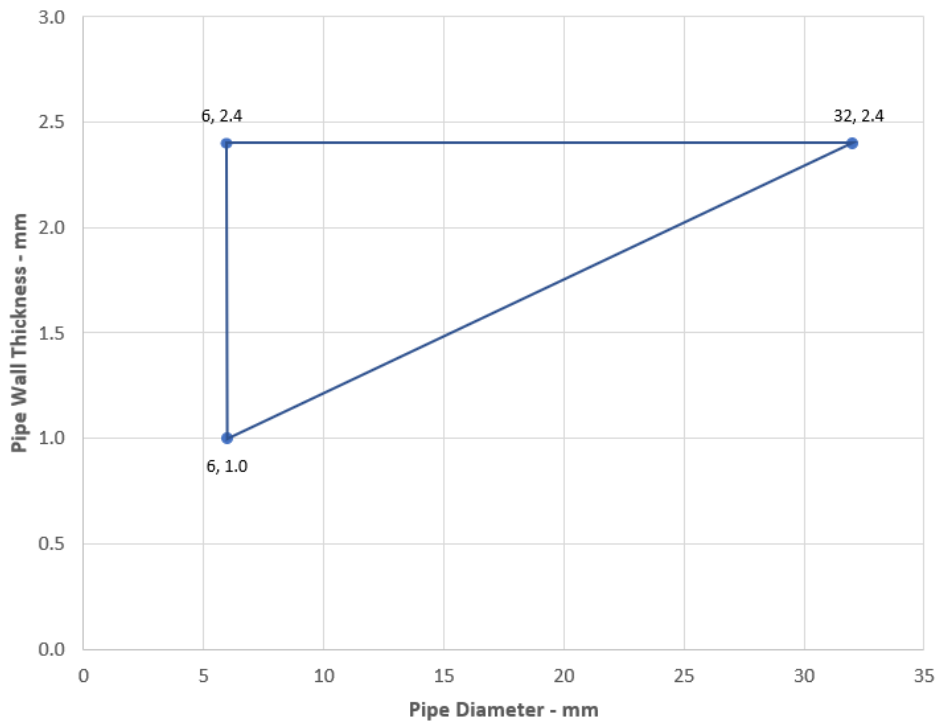
Pipe material	Sealant depth	Pipe size	Maximum Annular space	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1	25 mm	6-32 mm \varnothing /1.0-2.4 mm wall*	10 mm	EI 120 U/C
		6-32 mm \varnothing /1.0-1.6 mm wall	30 mm	E 120 U/C, EI 90 U/C
20 mm \varnothing /2.2 mm wall		EI 120 C/C		
PP pipe according to EN 1451-1 or DIN 8077/8078		20 mm \varnothing /2.2-4.4 mm wall	30 mm	EI 120 U/C
		20-32 mm \varnothing /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 \varnothing /2.0 mm wall	30 mm	EI 60 C/C
		20-32 mm \varnothing /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
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	EI 45 C/C

* See below graphs for interpolated pipe sizes

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

PVC-U Pipes - U/C



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

41/179

BUILDING TRUST

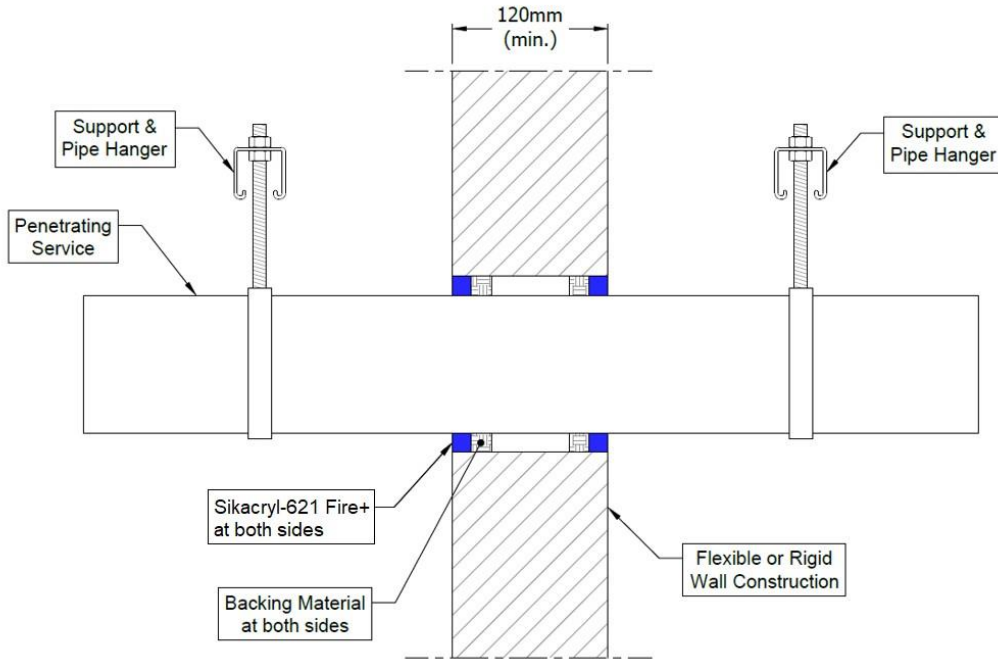


A.4 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 120 mm

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

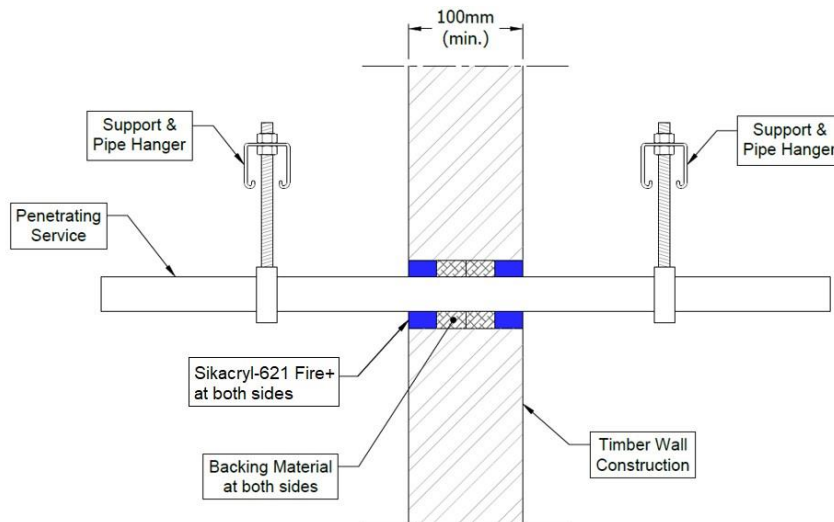
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

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

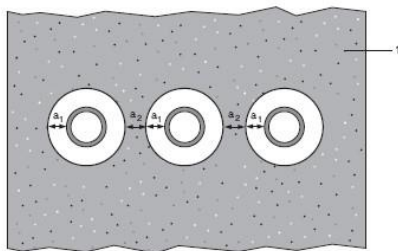
A.5.1 Double side penetration seal with cables

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

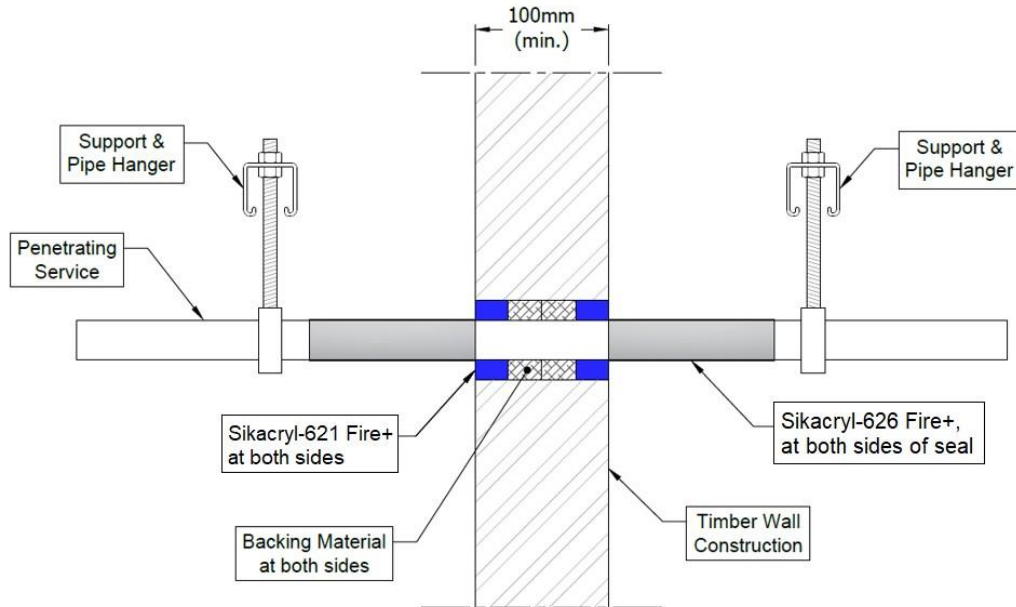
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

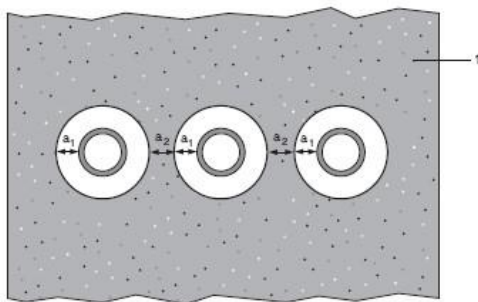
A.5.2 Double side penetration seal with cables and Sikacryl-626 Fire+

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

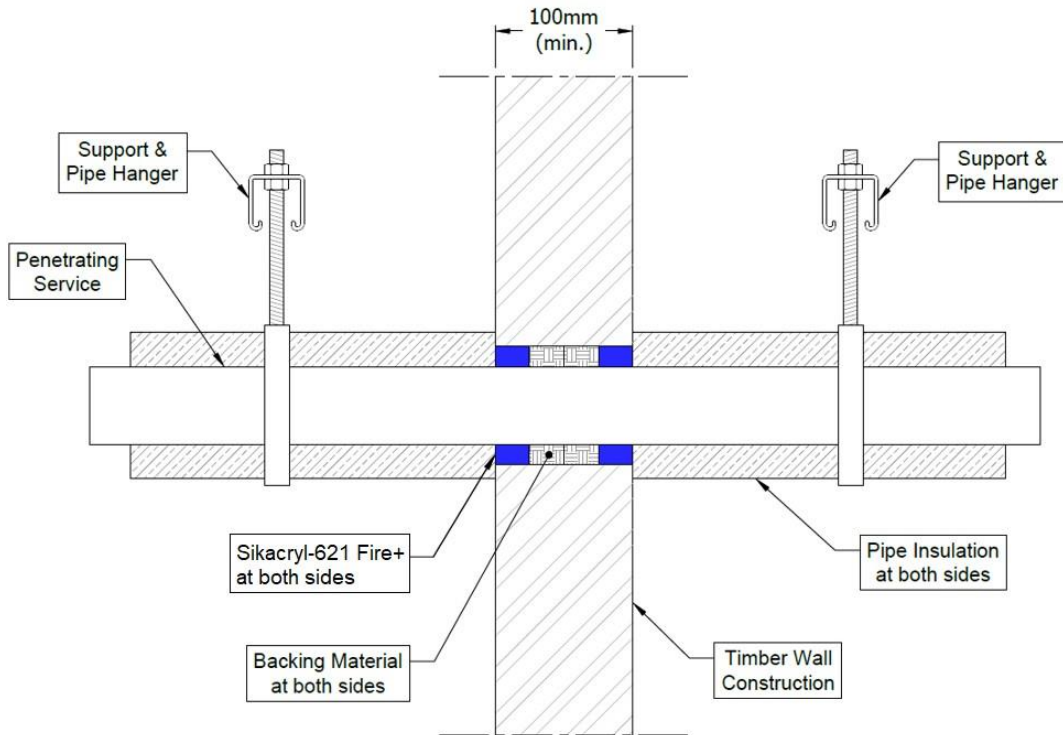
Services	Sealant depth	Backing	Maximum aperture	Insulation, minimum	Classification
None (blank)	25 mm	Stone wool 25 mm deep min. 33kg/m ³	Ø 180 mm	Sikacryl-626 Fire+, 260-micron DFT extending 150 mm from both sides of the seal	EI 120
Cables up to 21 mm Ø, single					EI 90
Cables up to 50 mm Ø, single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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

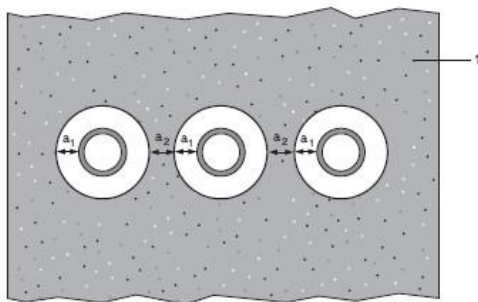
A.5.3 Double side penetration seal with metallic pipes

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

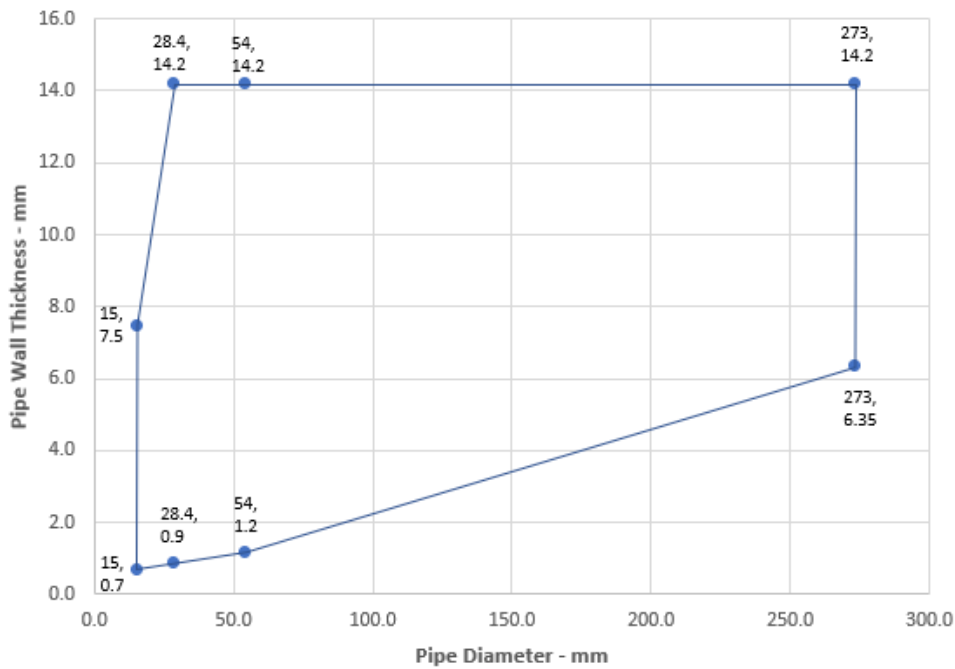
- 1 Supporting construction
- a1 Pipe / edge of seal separation (annular space)
- a2 Separation between penetration seals

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

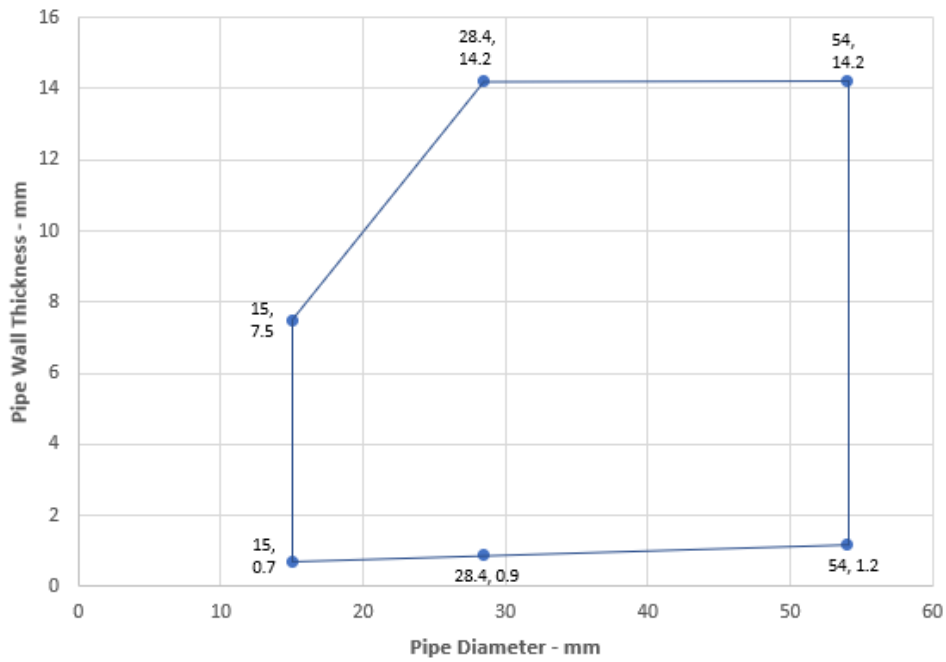
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



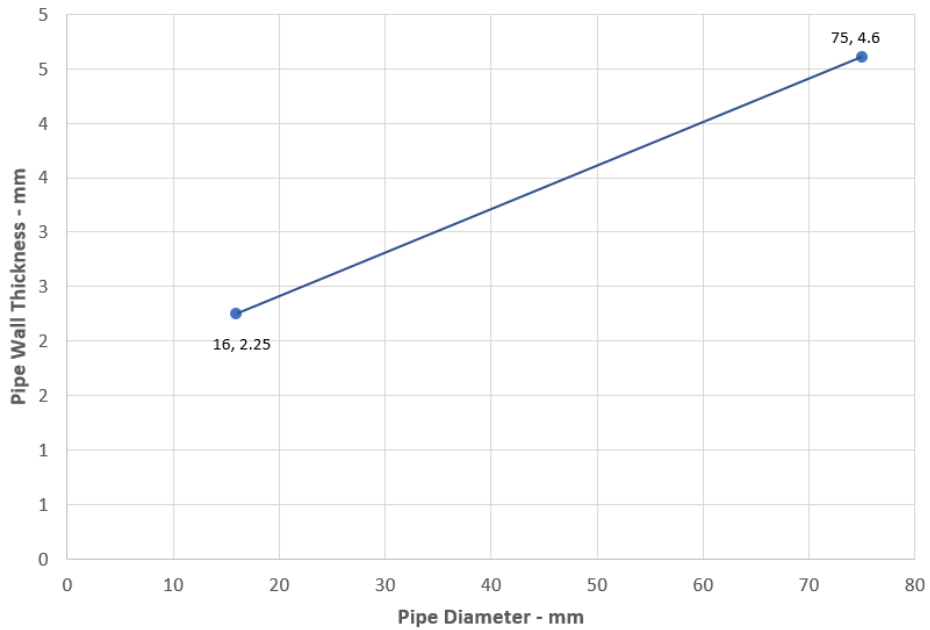
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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



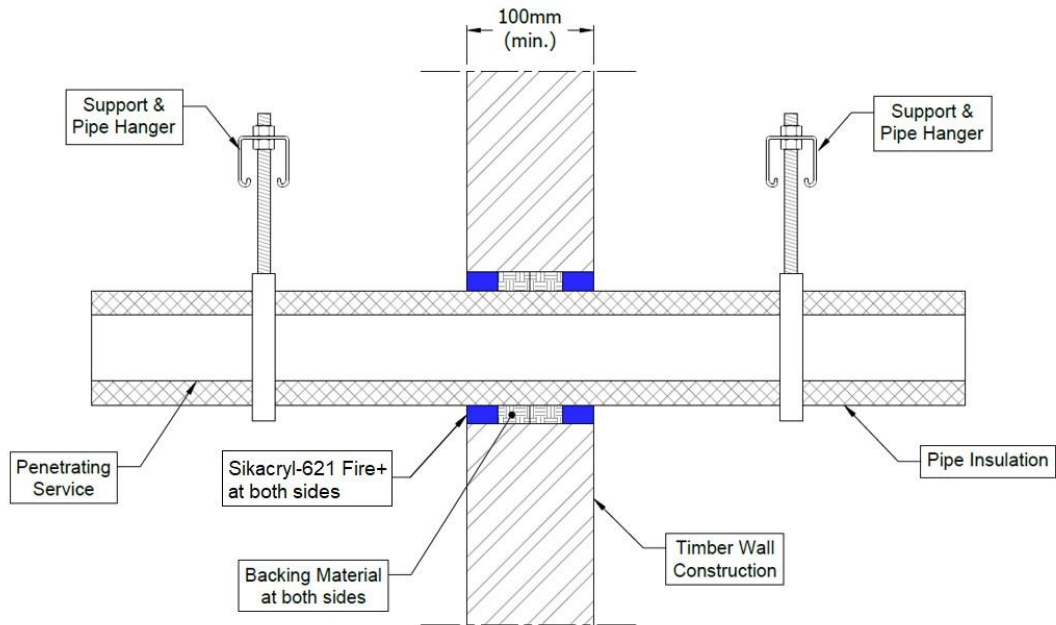
Alupex Pipes with Glass Wool or Mineral Wool Insulation - C/C



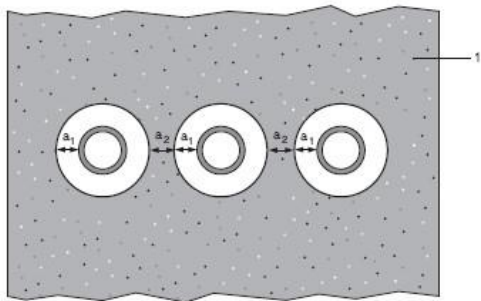
A.5.4 Double side penetration seal with metallic pipes

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

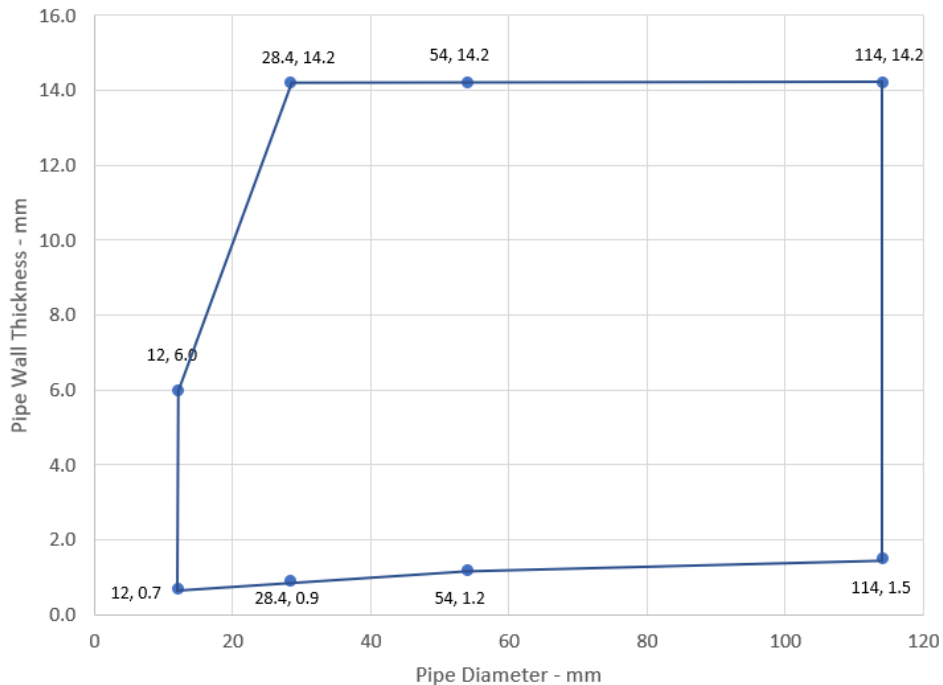
A.5.4.1

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*			10-25 mm Elastomeric insulation minimum class D-s3, d0	E 60 C/C, EI 30 C/C
Maximum 54 mm diameter /1.2-14.2 mm wall*				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*			10-25 mm Elastomeric insulation minimum class D-s3, d0	E 60 C/C, EI 45 C/C
Maximum 75 mm diameter/wall 4.6 mm wall*				EI 45 C/C

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

*

Steel Pipes with Elastomeric Insulation - C/C

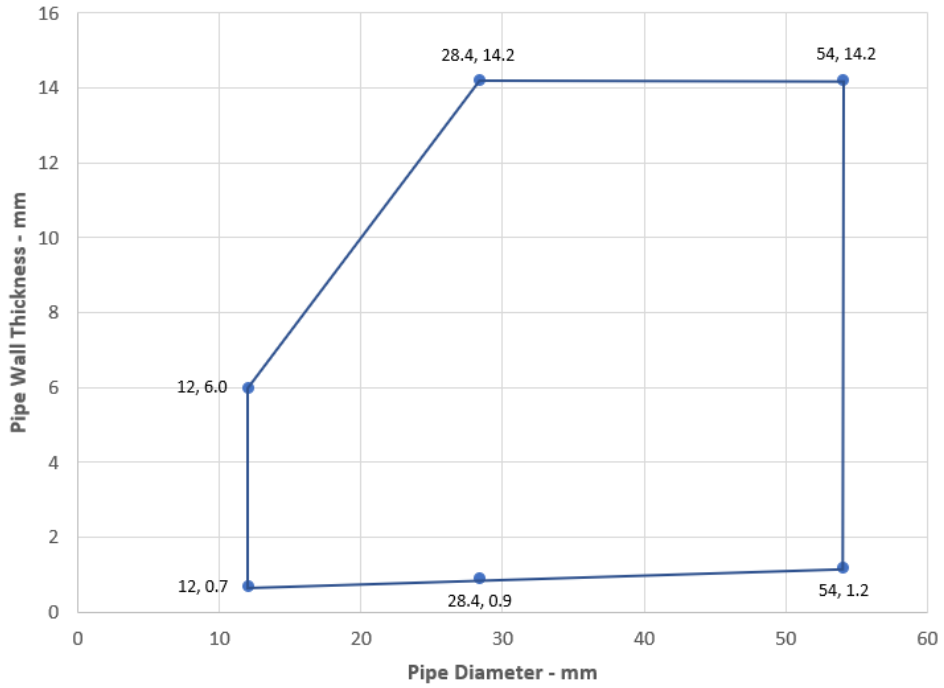


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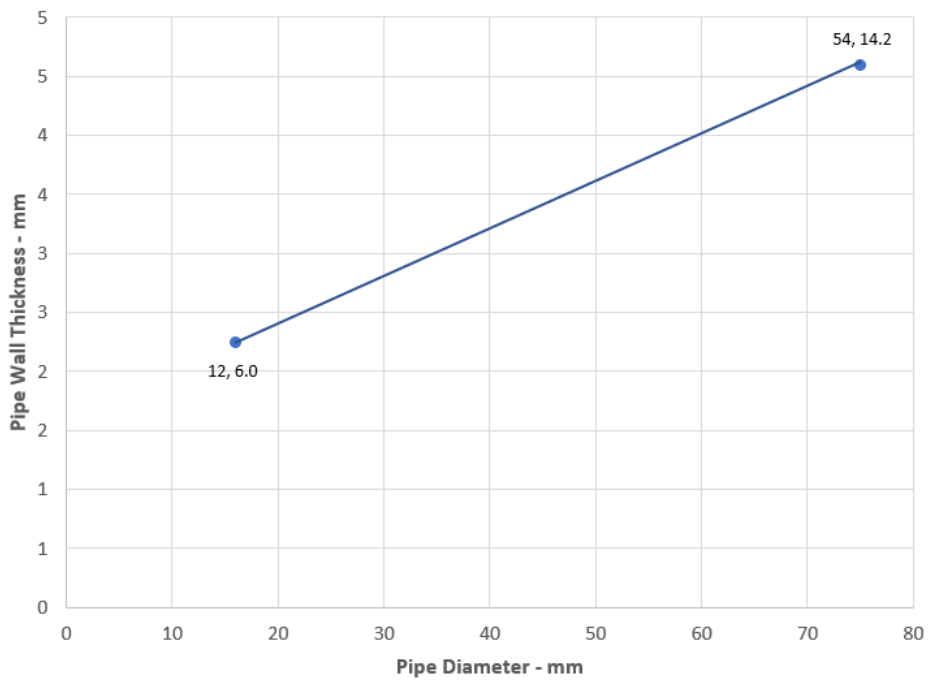
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



Copper or Steel Pipes with Elastomeric Insulation - C/C



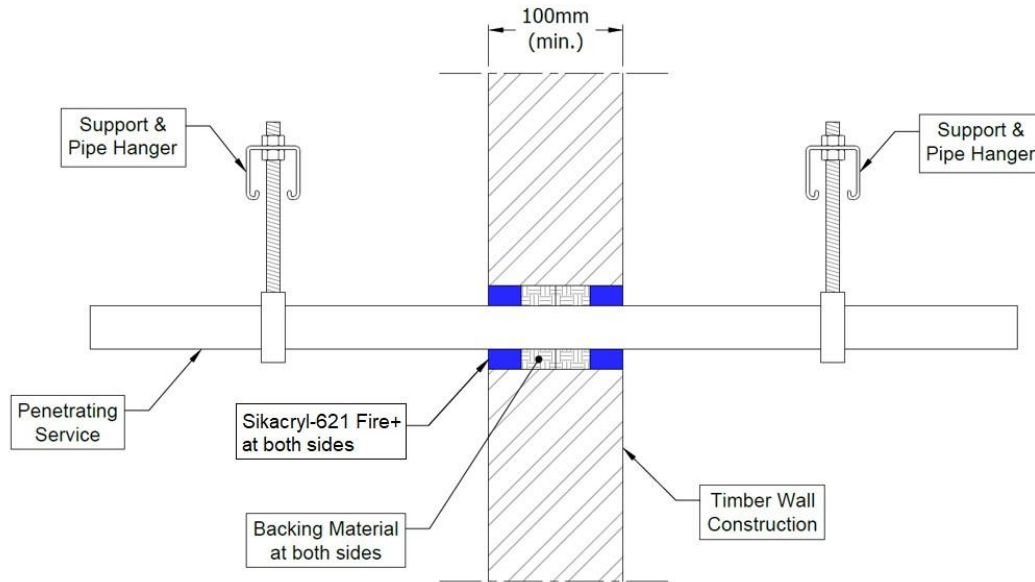
Alupex Pipes with Elastomeric Insulation - C/C



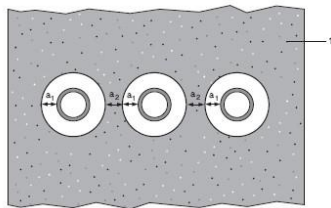
A.5.5 Double side penetration seal with plastic pipes and composite pipes

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

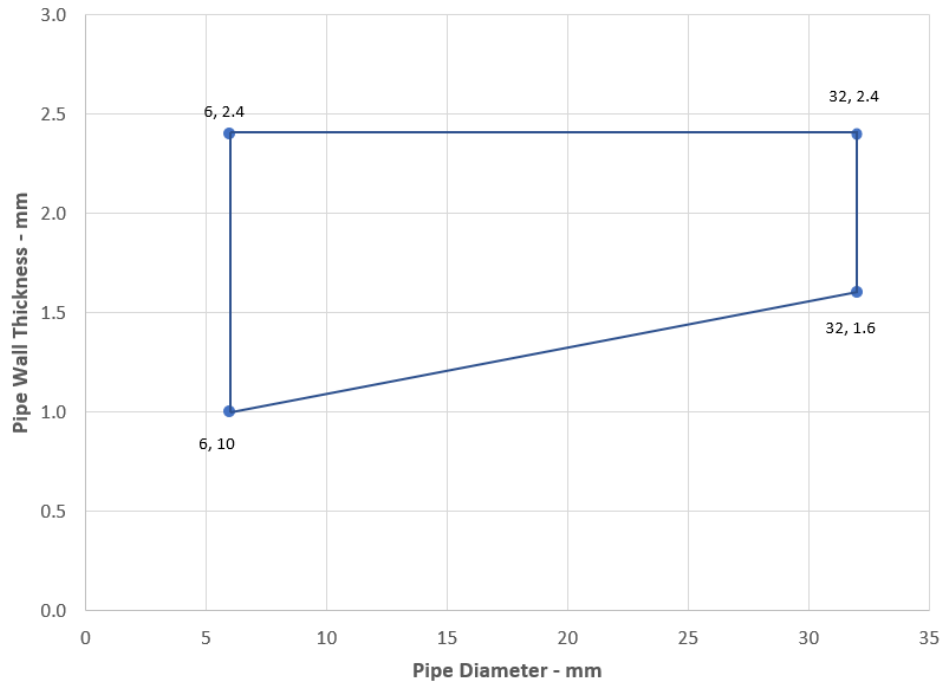
Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Maximum 32 mm diameter/1.0-2.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 U/C
PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according 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

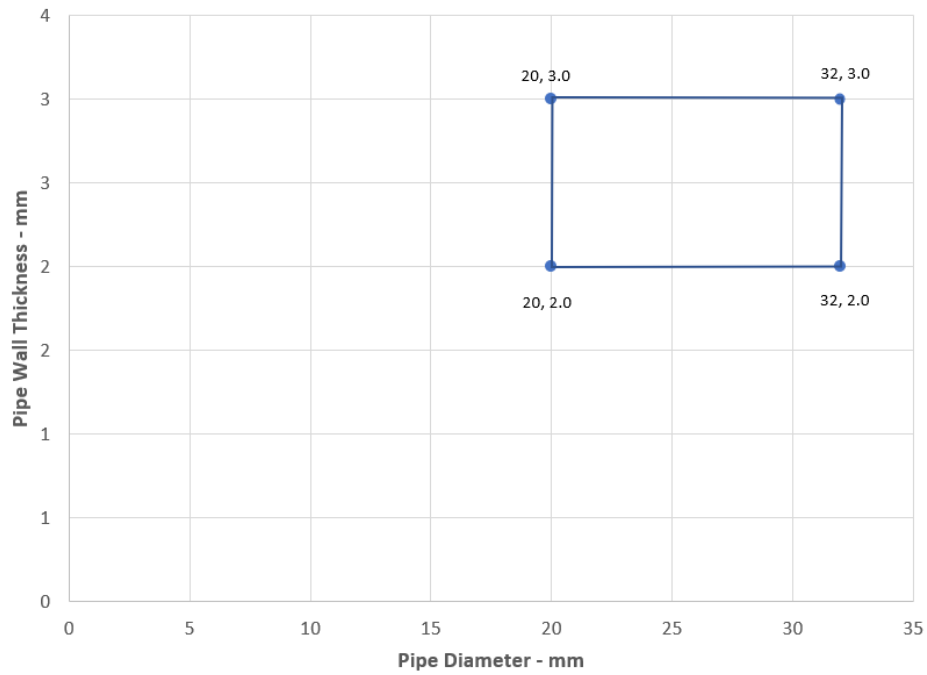
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

PVC-U Pipes EI 90 - U/C



PE Pipes EI 90 - U/C



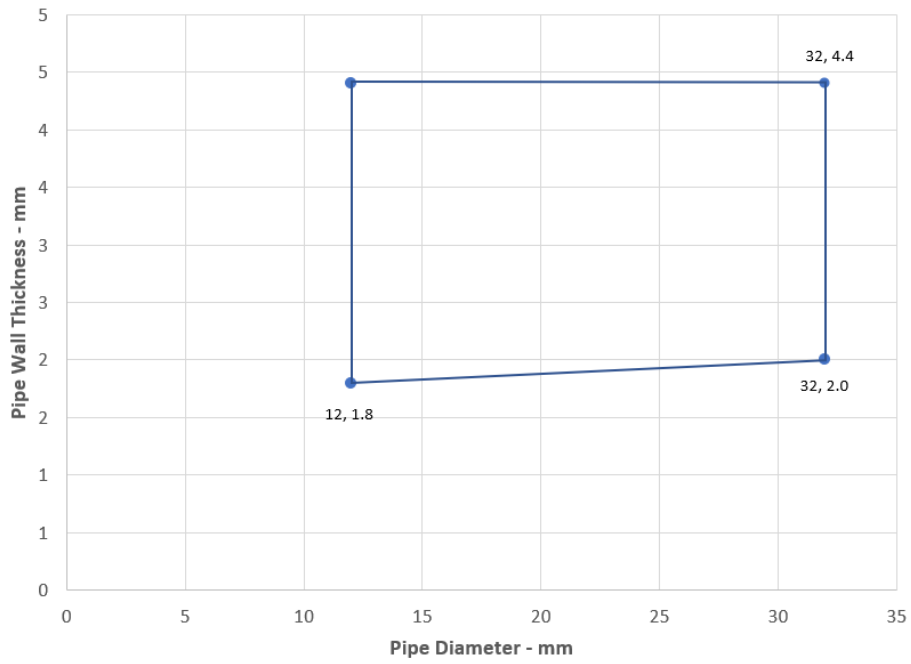
Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

52/179

BUILDING TRUST



PP Pipes EI 90 - U/C



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

53/179

BUILDING TRUST

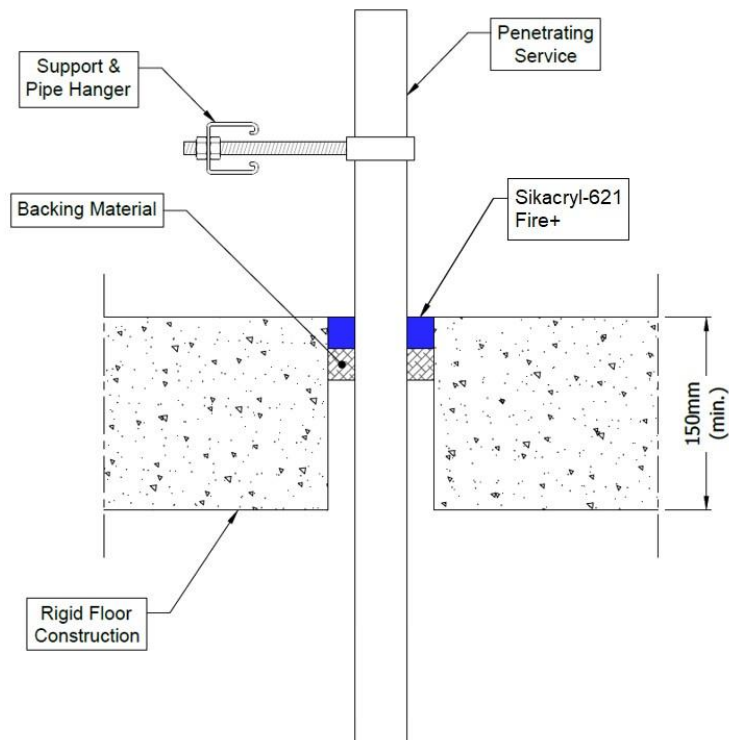
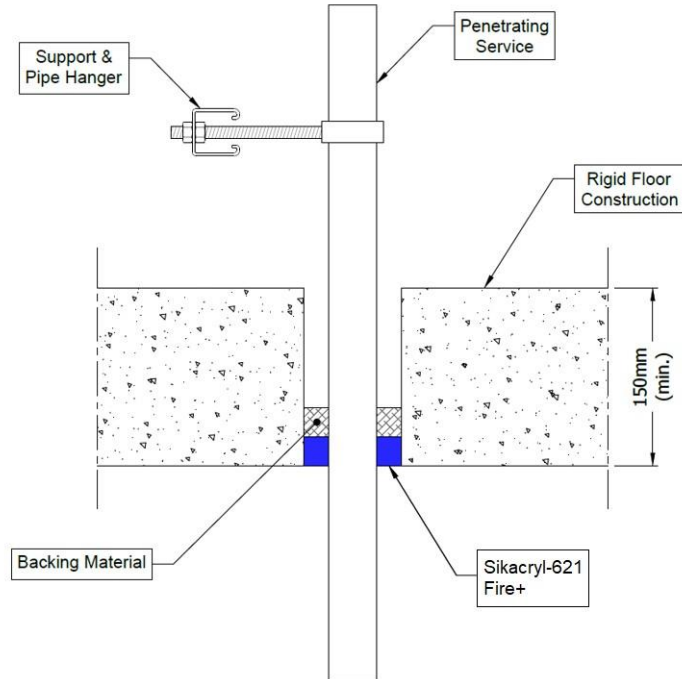


A.6 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

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:



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

54/179

BUILDING TRUST



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

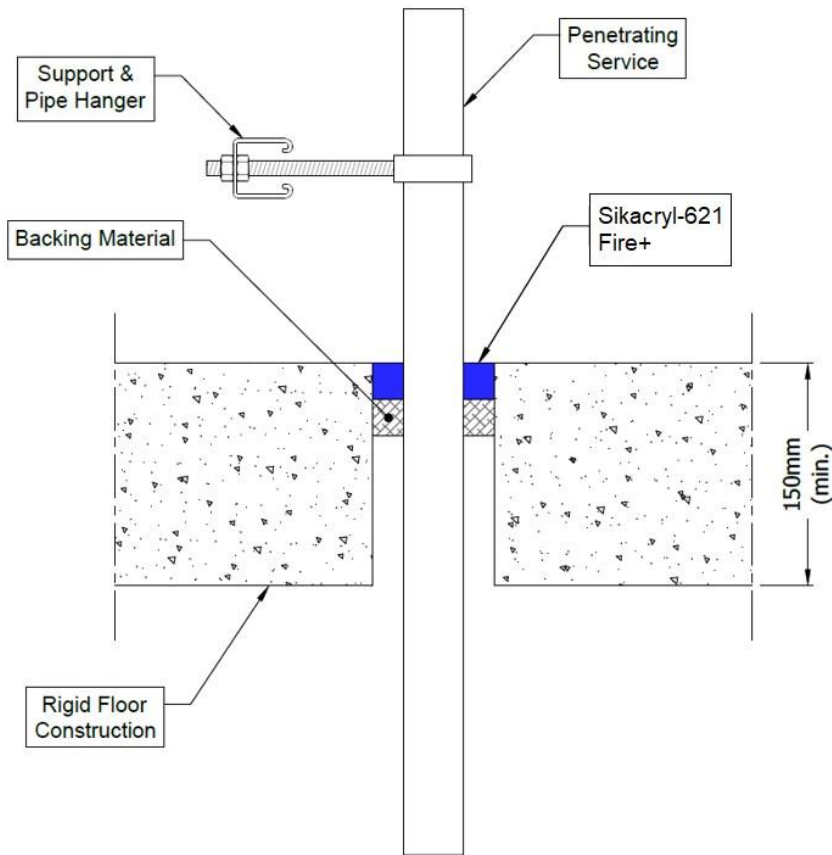
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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

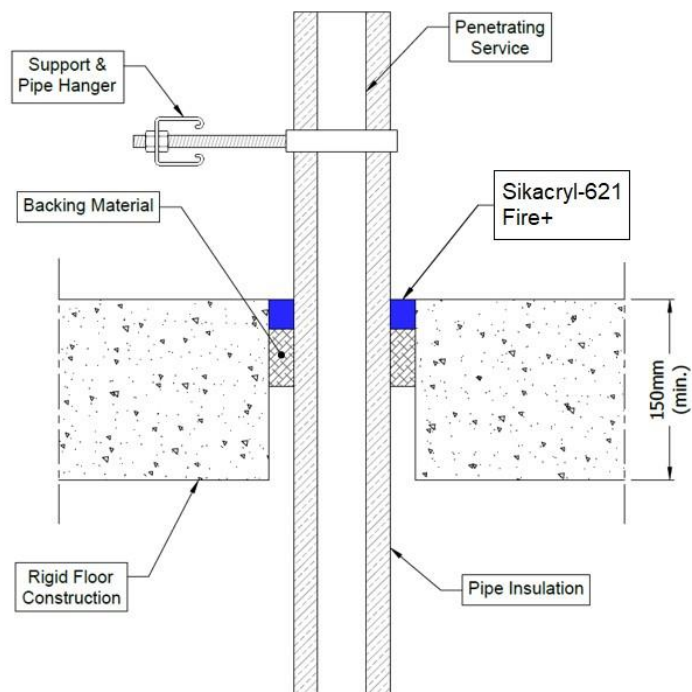
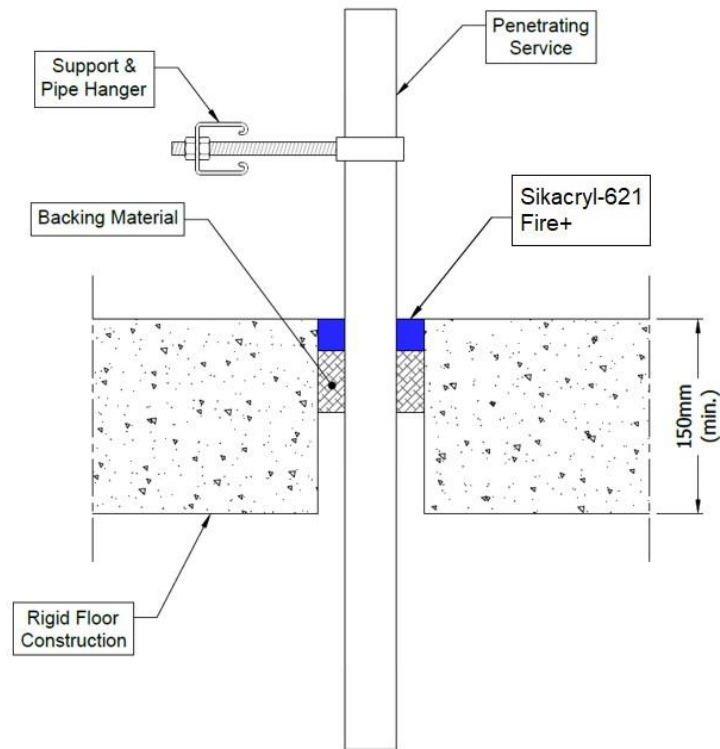
Services	Sealant depth	Backing (minimum)	Insulation	Classification
Blank seals	15 mm	20 mm Stone wool 35 kg/m ³	None	E 90, EI 60
	25 mm	25 mm Stone wool 35 kg/m ³		EI 120
48 mm AES Fibre ≥ 128kg/m ³		EI 240		
		E 120, EI 90		
Electric cables up to 21 mm diameter, single.	25 mm	48 mm AES Fibre ≥ 128kg/m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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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:



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

57/179

BUILDING TRUST

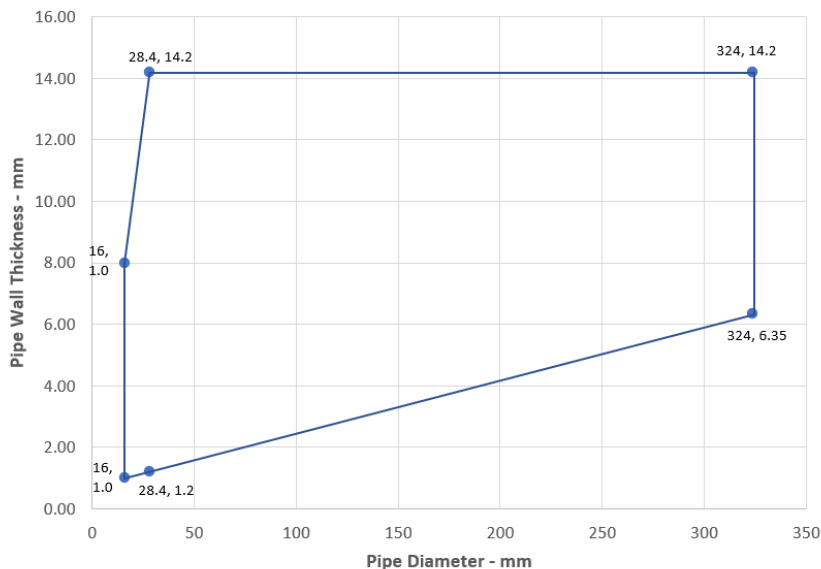


A.6.3.1

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/m³ 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/m³ 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/m³ 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

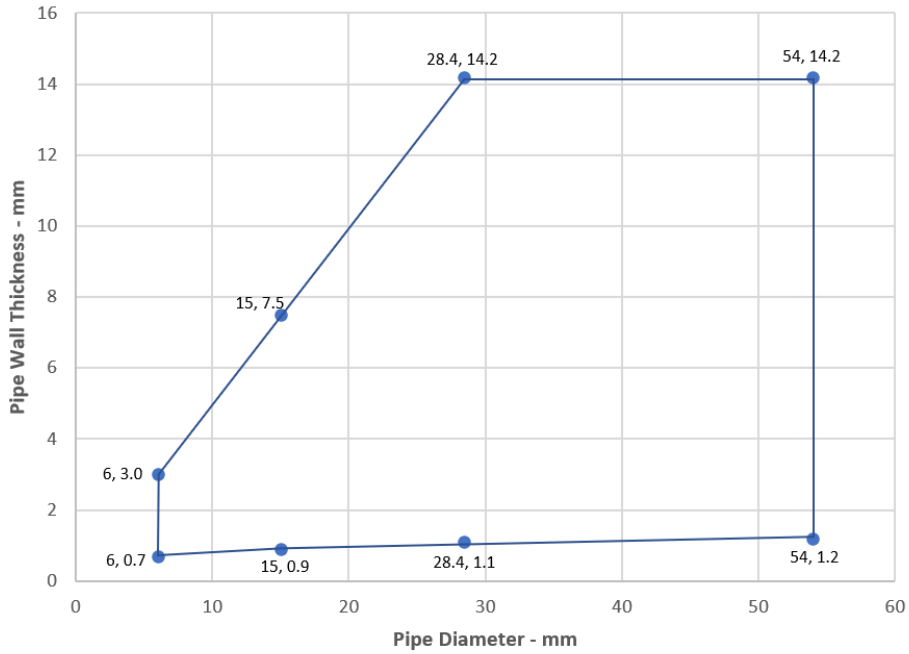
*See below graphs for interpolated pipe sizes

Mild or Stainless Steel - C/U

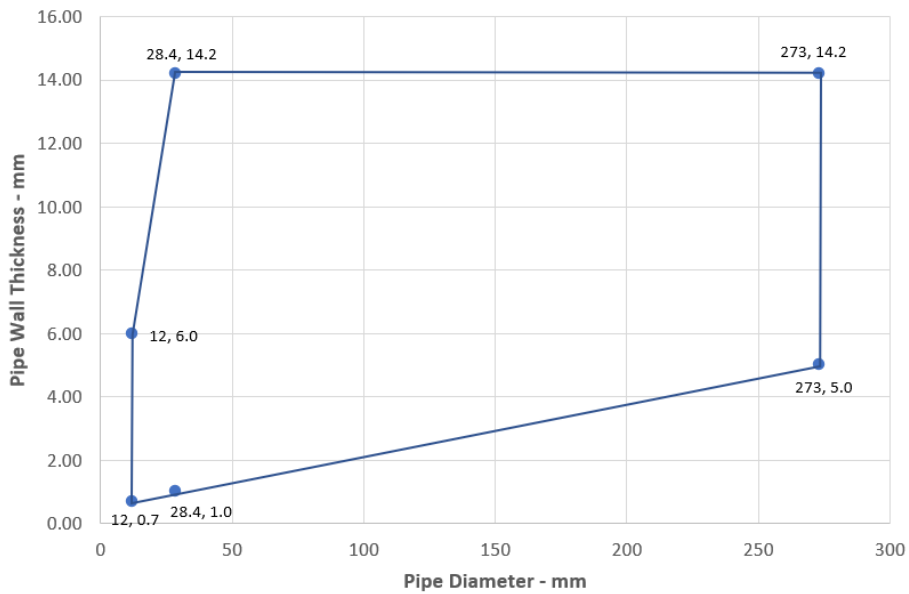


Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

Copper or Stainless Steel Pipes - C/C



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



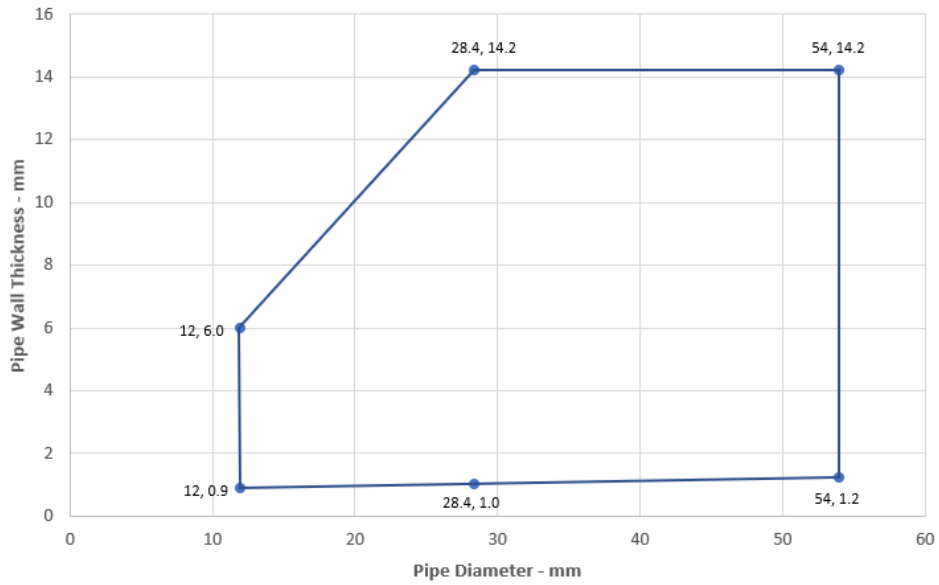
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

59/179

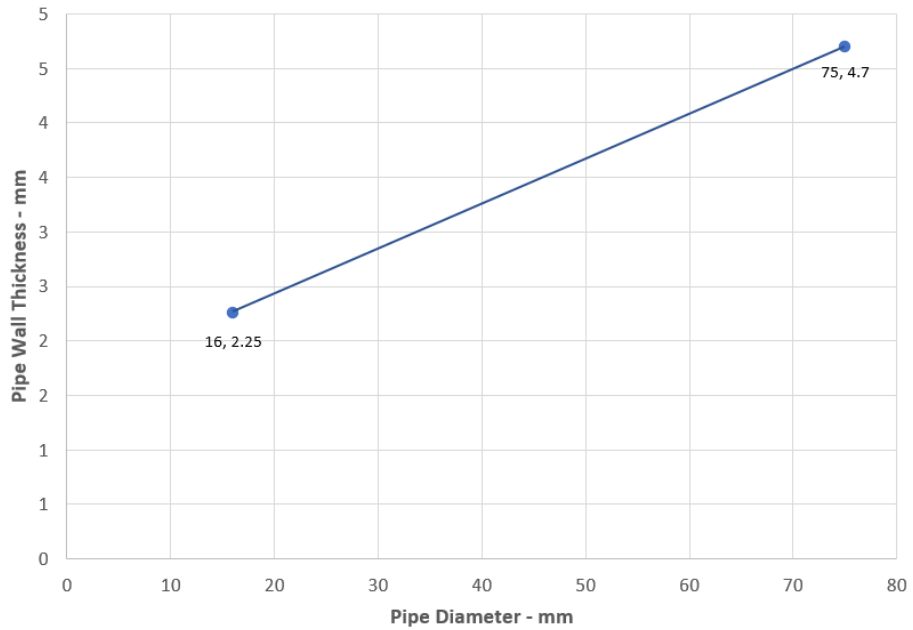
BUILDING TRUST



**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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

60/179

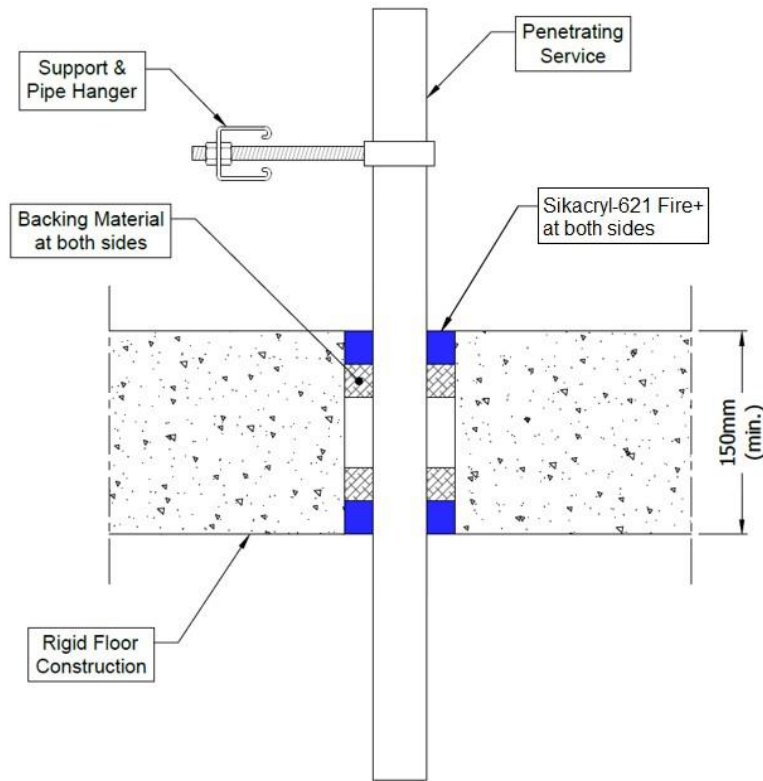
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A.6.4 Double side penetration seal with pipes

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

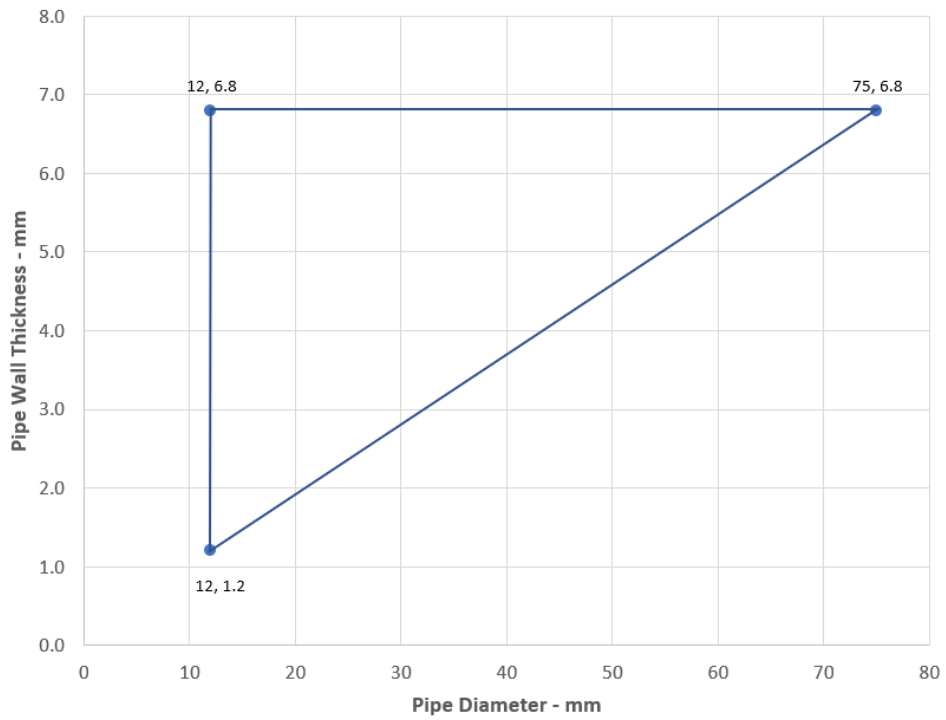
Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Up to 50 mm \varnothing /1.6-3.7 mm wall	25 mm	25 mm Stone wool	EI 240 U/C
Up to 40 mm \varnothing /1.6-3.7 mm wall, with bundle of cables up to 21 mm diameter			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

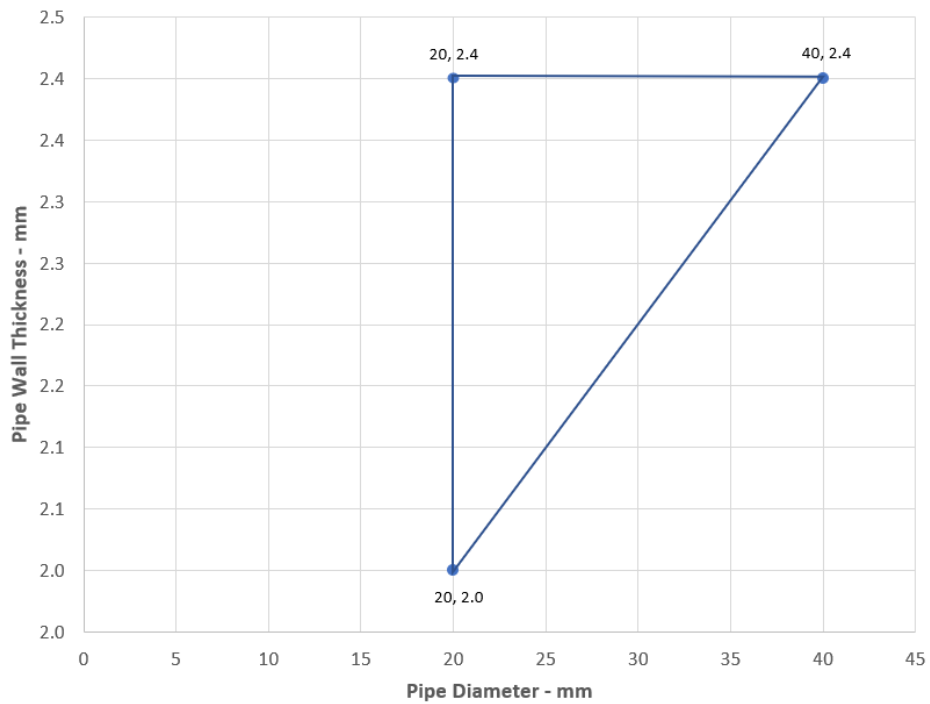
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

PP Pipes - EI 190 U/C



PE Pipes - U/C



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

62/179

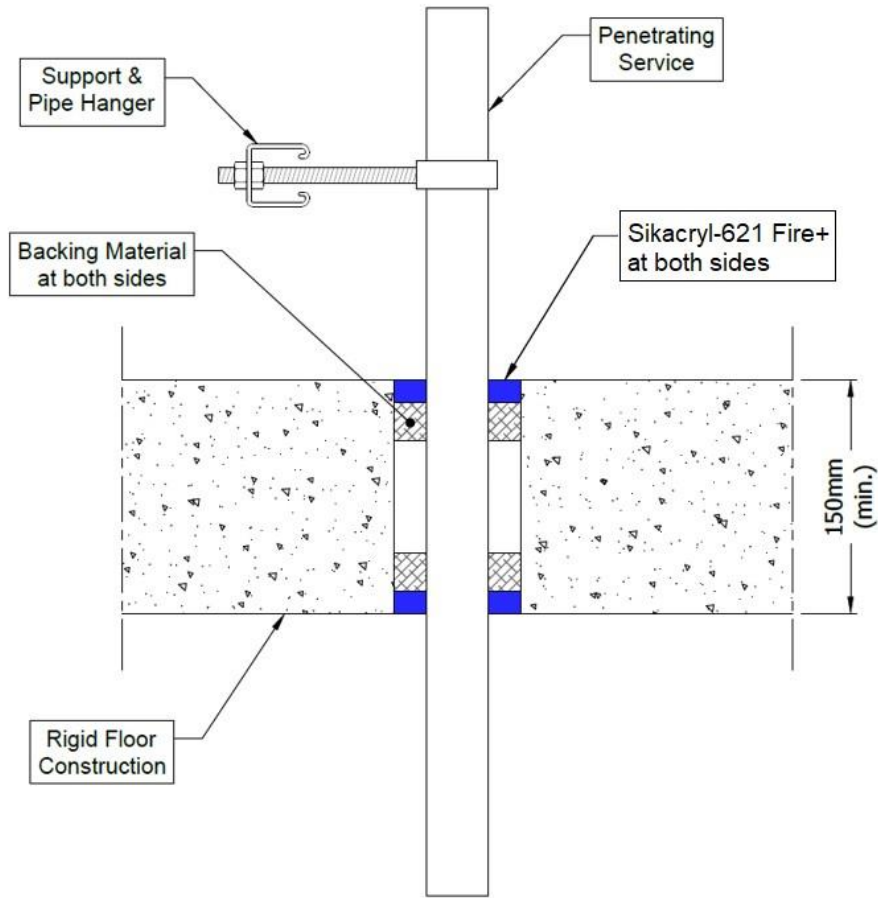
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A.6.5 Double side penetration seal with cables

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:



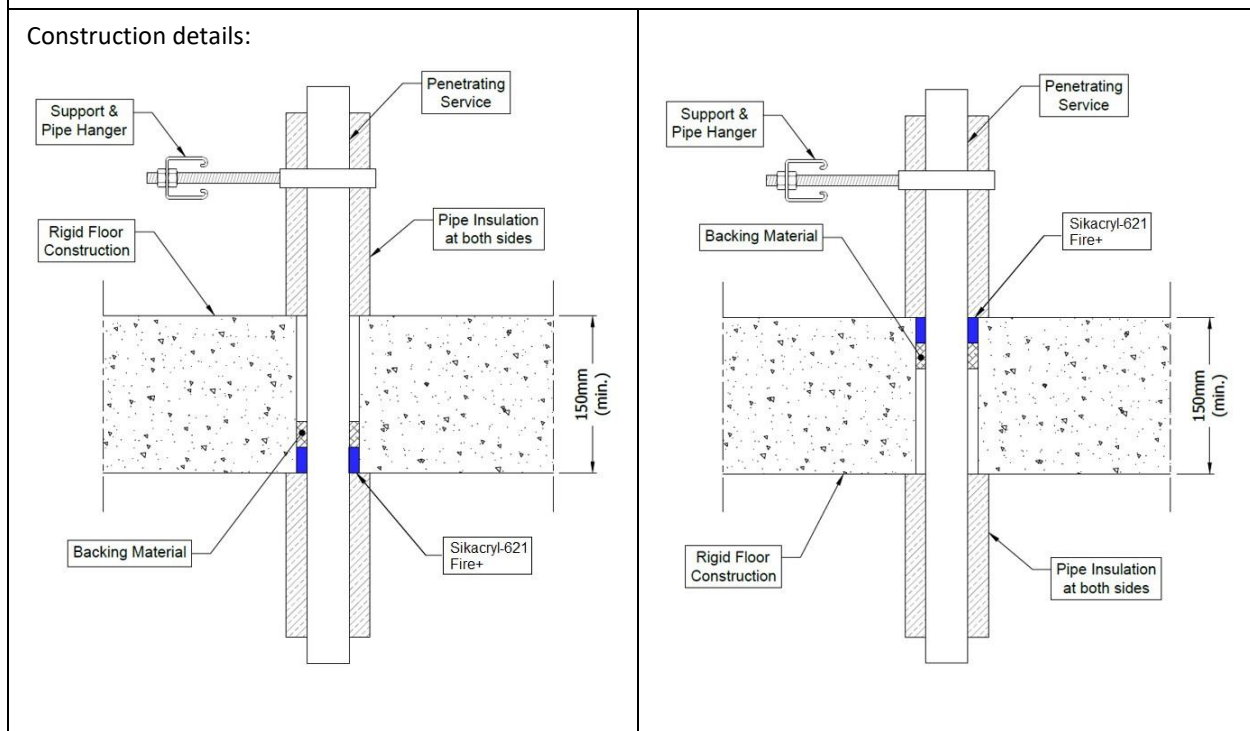
A.6.5.1

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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01, ver. 1.1
 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/m ³	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/m ³	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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
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/m ³	15 mm	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 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/m ³	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/m ³		
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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

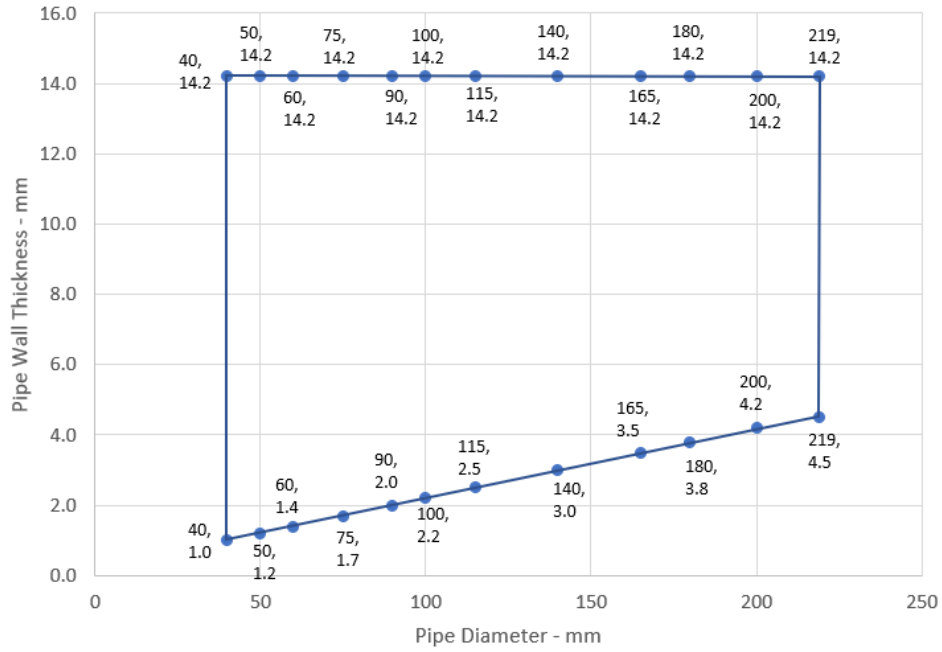
Services	Max. Seal Size	Insulation (minimum)	Sealant Depth	Classification
Mild or stainless steel pipe				
40 mm diameter/1-14.2 mm wall	300 x 300 mm	20 mm Stone wool insulation 80 kg/m ³	15 mm	E 90 C/U, EI 60 C/U
40 mm diameter/1-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m ³		
50 mm diameter/1.2-14.2 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*				
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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

Steel Pipes with Stone Wool Insulation - C/U



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

67/179

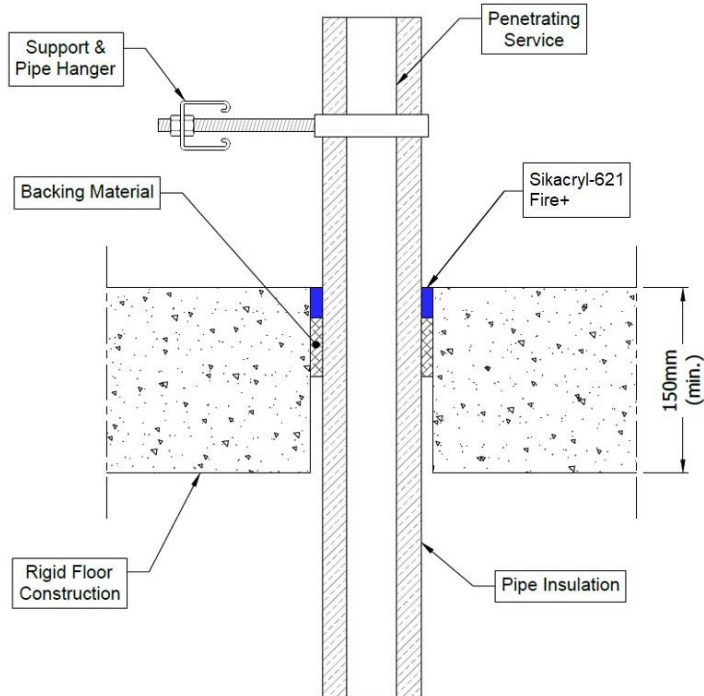
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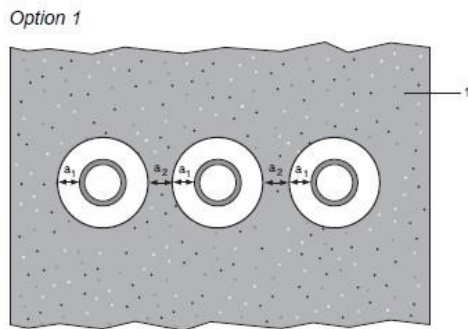
A.6.7 Single side penetration seal with metallic pipes

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

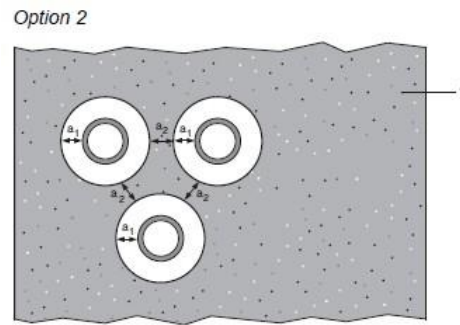
Construction details:



Configuration 1:



Configuration 2:



Key

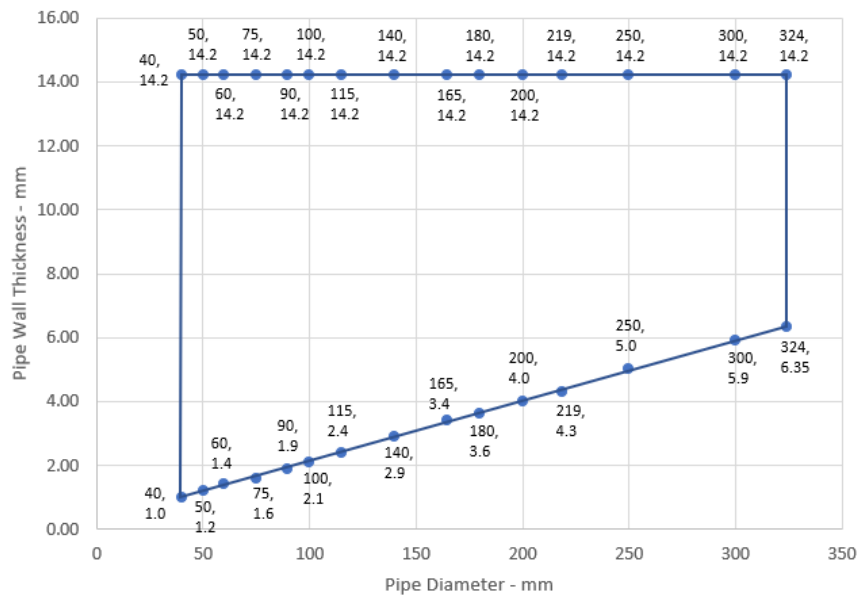
- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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



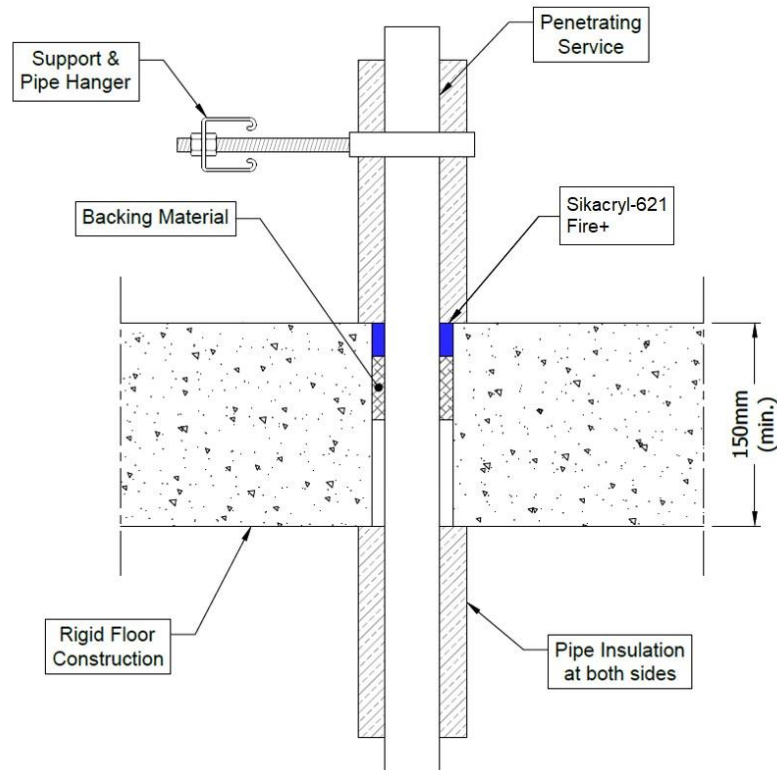
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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

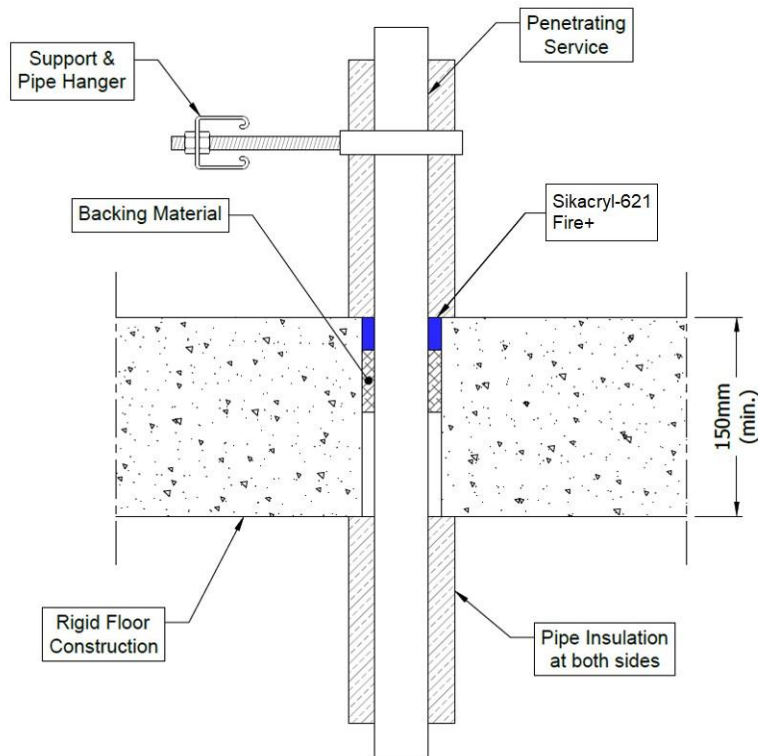
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
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

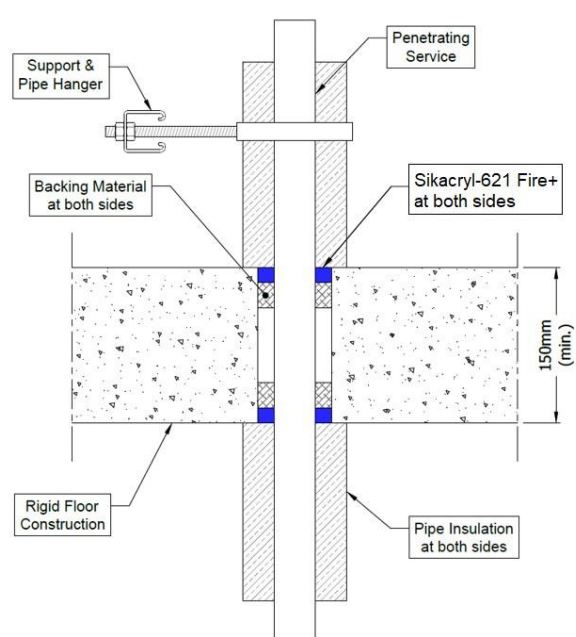
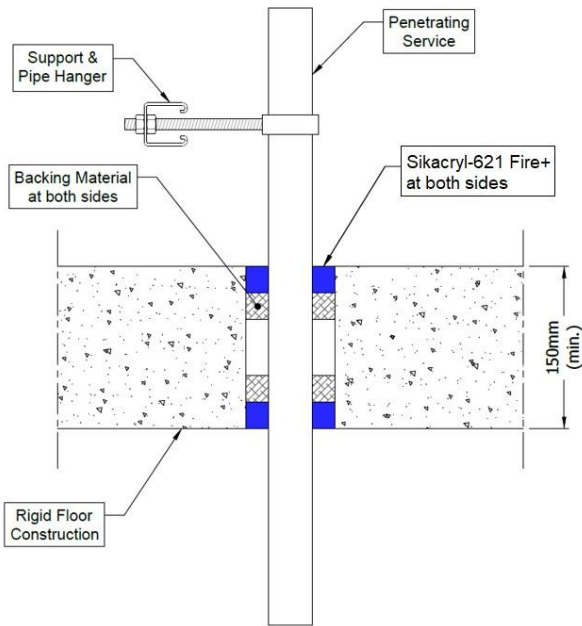
Services	Sealant depth	Backing	Insulation (minimums)	Classification
Alupex Composite Pipe	25 mm	48 mm AES Fibre $\geq 128\text{kg/m}^3$	20 mm stonewool 80 kg/m^3 , 500 mm length from both sides of the seal	EI 240 C/C
16 mm diameter/2.25 mm wall				
20 mm diameter/2.5 mm wall				
26 mm diameter/3 mm wall				
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				

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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:

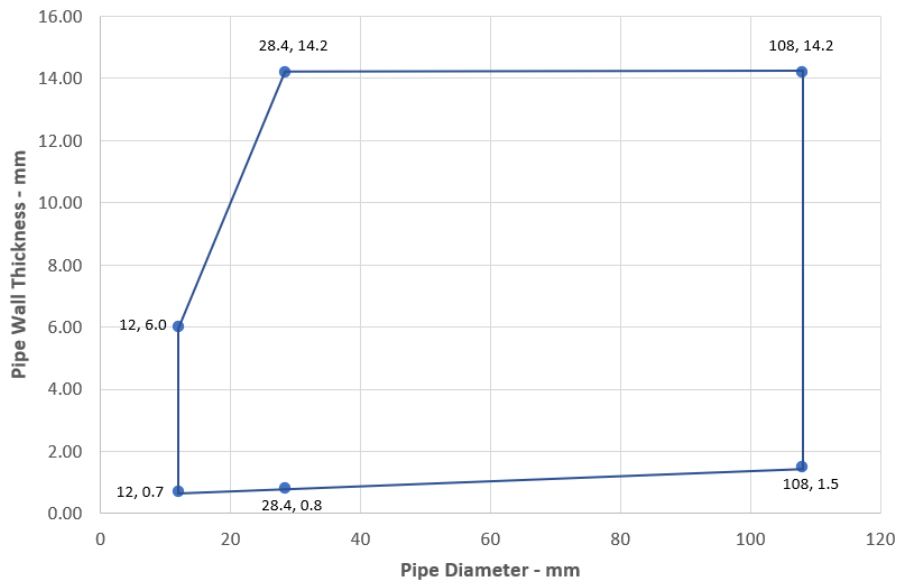


A.6.10.1

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

Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

73/179

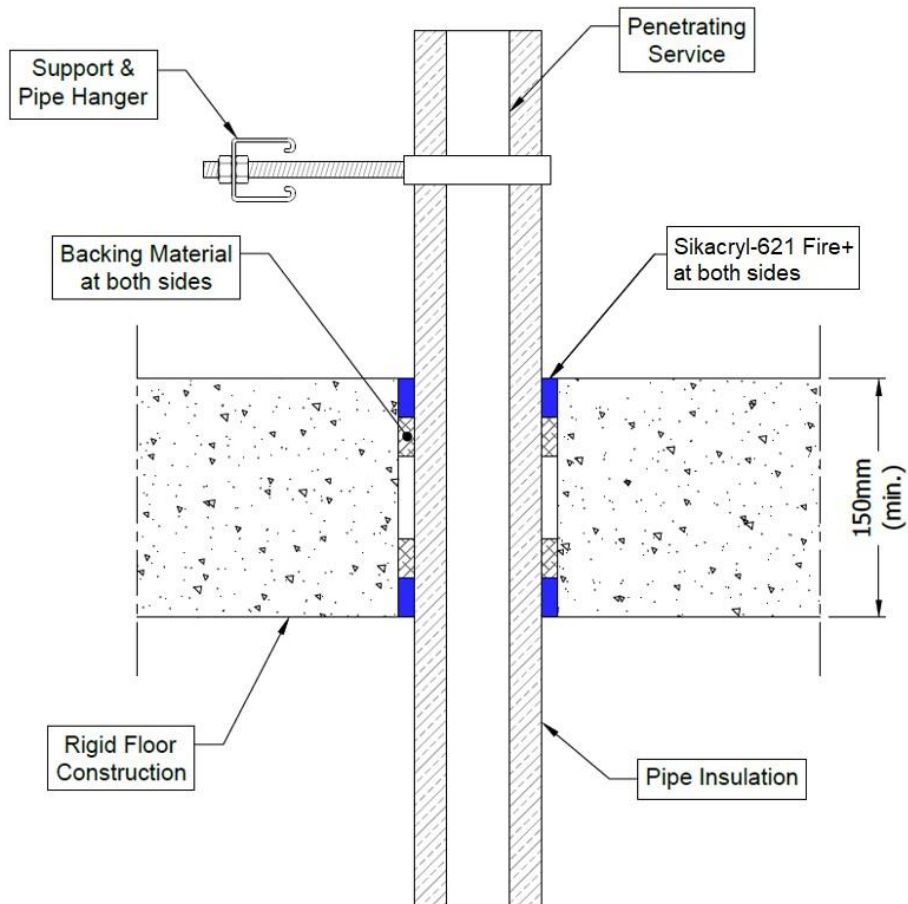
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A.6.11 Double side penetration seal with metallic pipes

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:



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

74/179

BUILDING TRUST

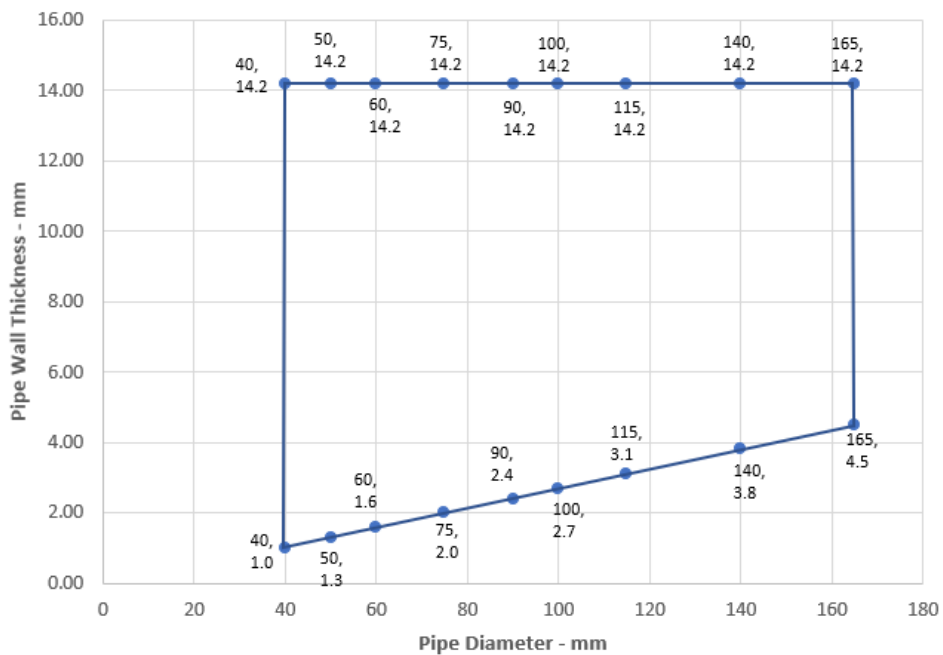


A.6.11.1

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/m ³	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/m ³		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/m ³	30-60 mm thick glass or stone, mineral wool min.	EI 60 C/U

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

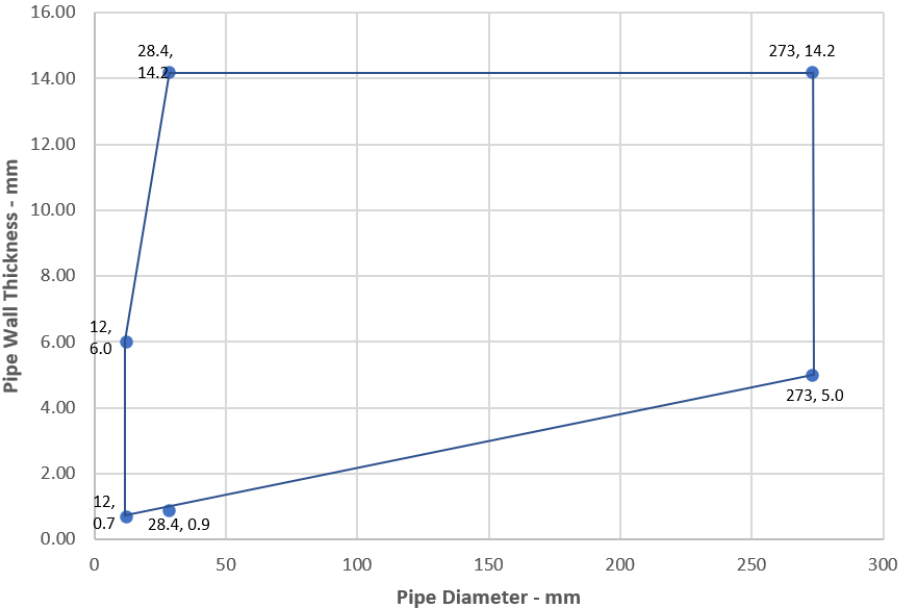
Steel Pipes with 13-19 mm Elastomeric Insulation - C/U



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01, ver. 1.1
 1549



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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

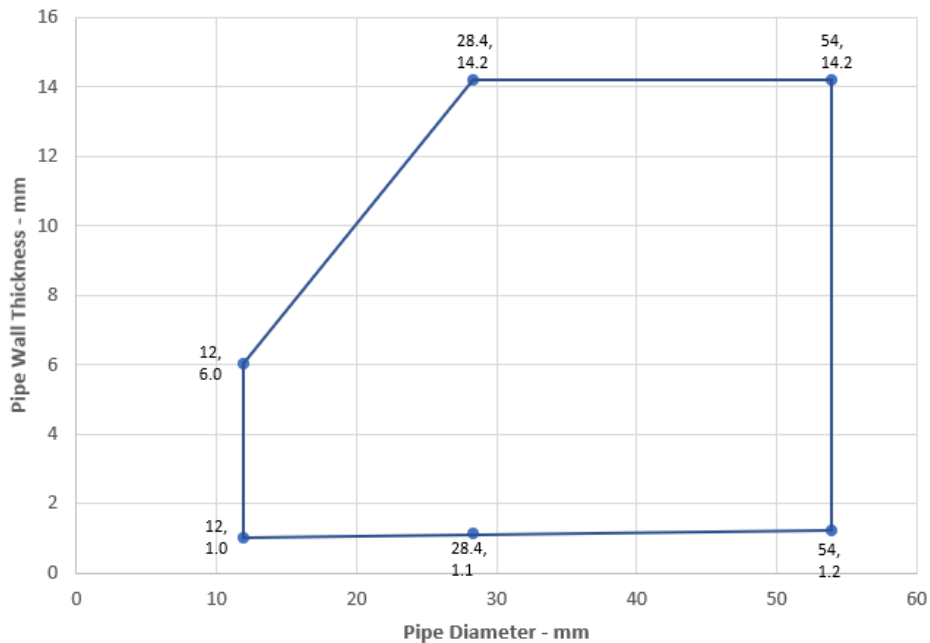
76/179



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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

77/179

BUILDING TRUST



Services	Sealant depth	Backing (minimum)	Insulation	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 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	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	
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				

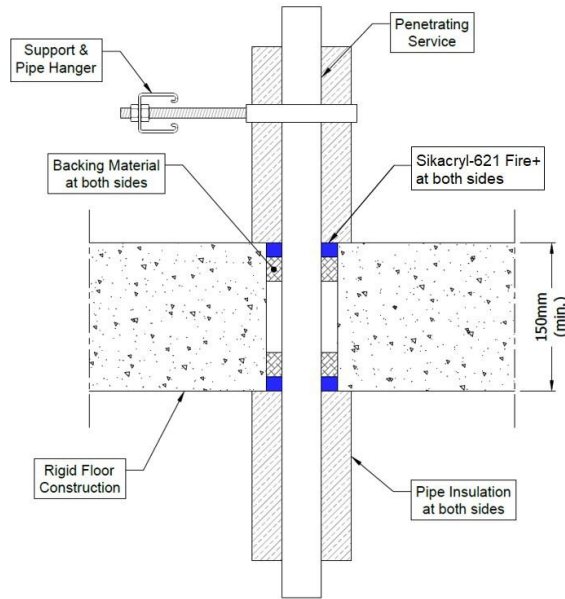
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
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

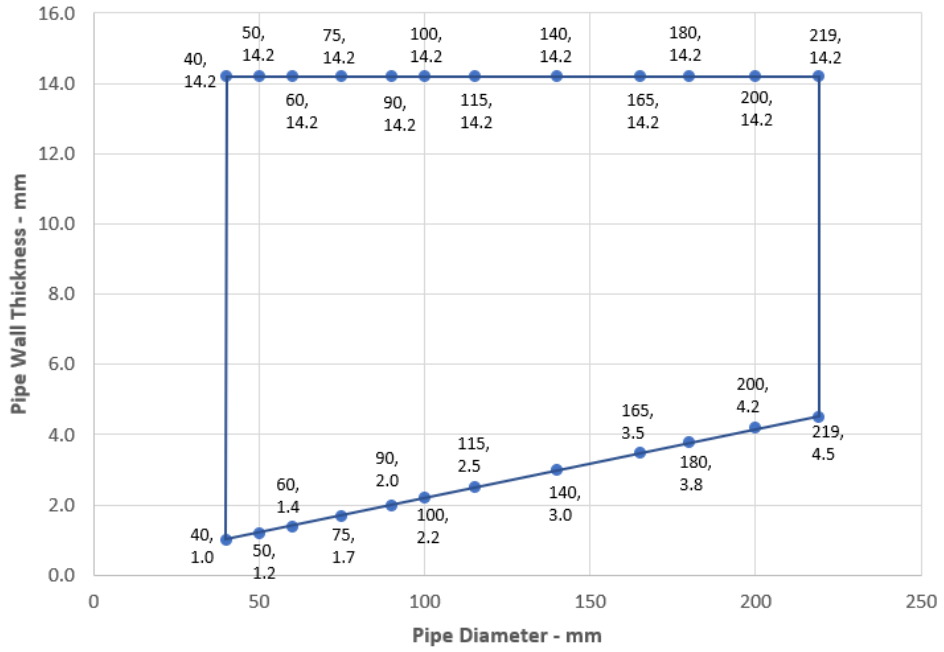
Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall		20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*			
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.7-14.2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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

Steel Pipes with Stone Wool Insulation - C/U



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

80/179

BUILDING TRUST

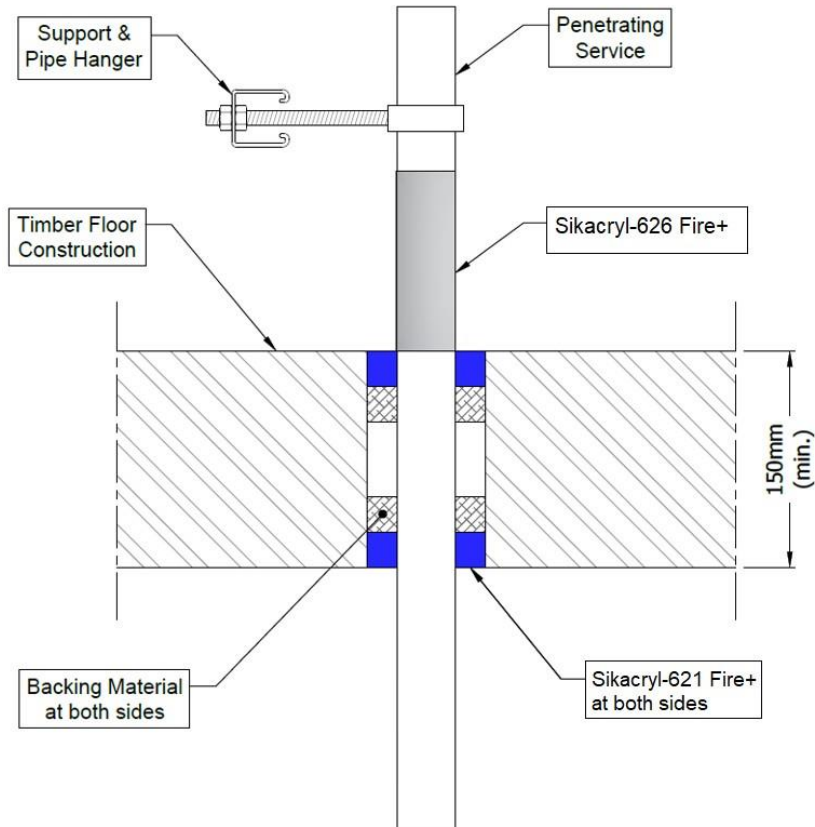


A.7. Timber floor constructions with floor thickness of minimum 150 mm

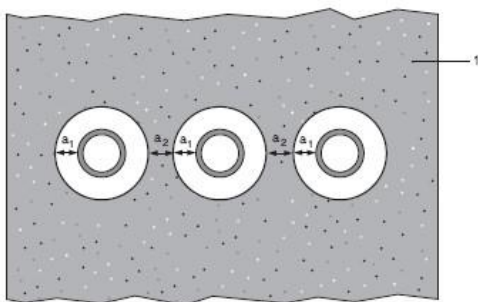
A.7.1 Double sided penetration seal with cables

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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01, ver. 1.1
 1549

81/179

BUILDING TRUST



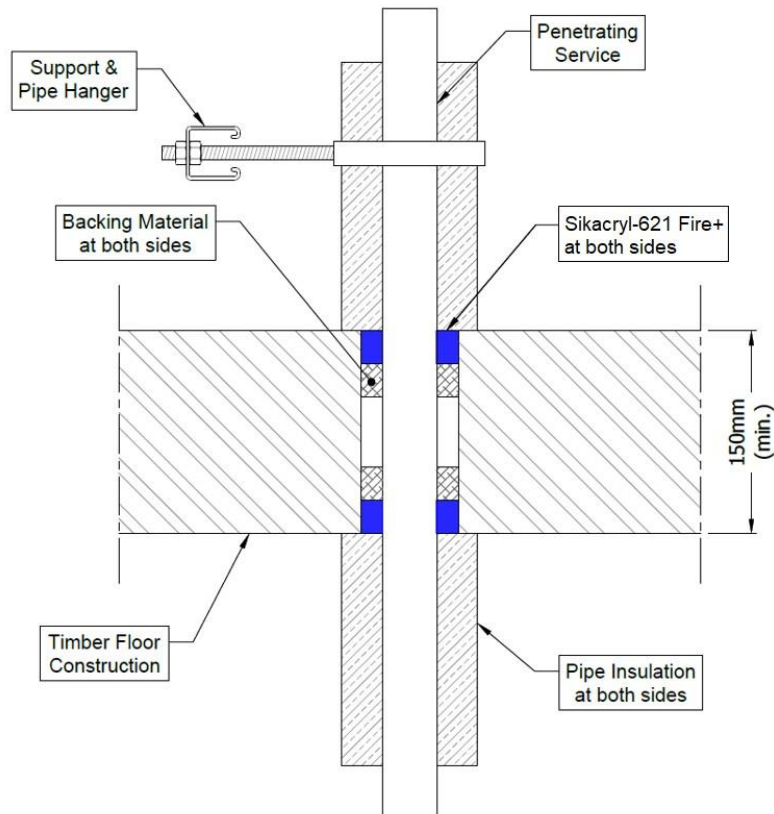
A.7.1.1

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				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	

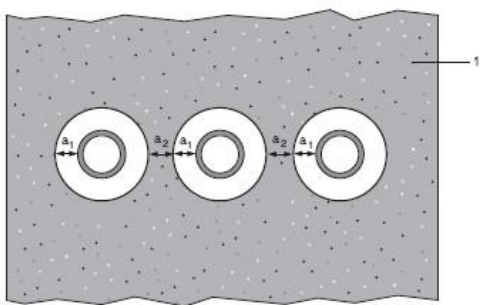
A.7.2 Double side penetration seal with metallic pipes

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

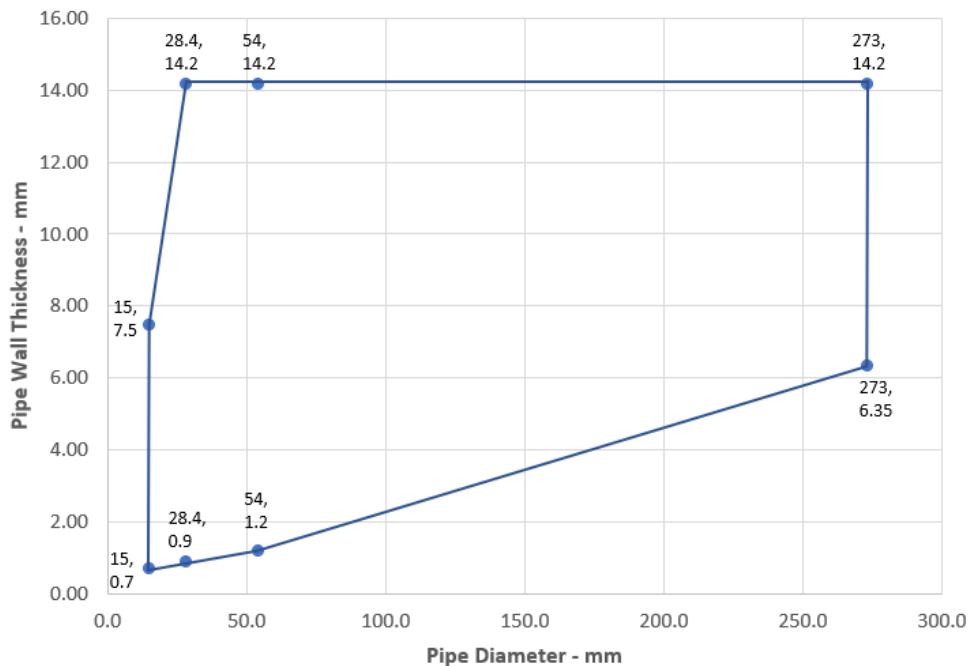
- 1 Supporting construction
- a1 Pipe / edge of seal separation (annular space)
- a2 Separation between penetration seals

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/m ³	25 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 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/m ³	20 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 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/m ³	20 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 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/m ³ , 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

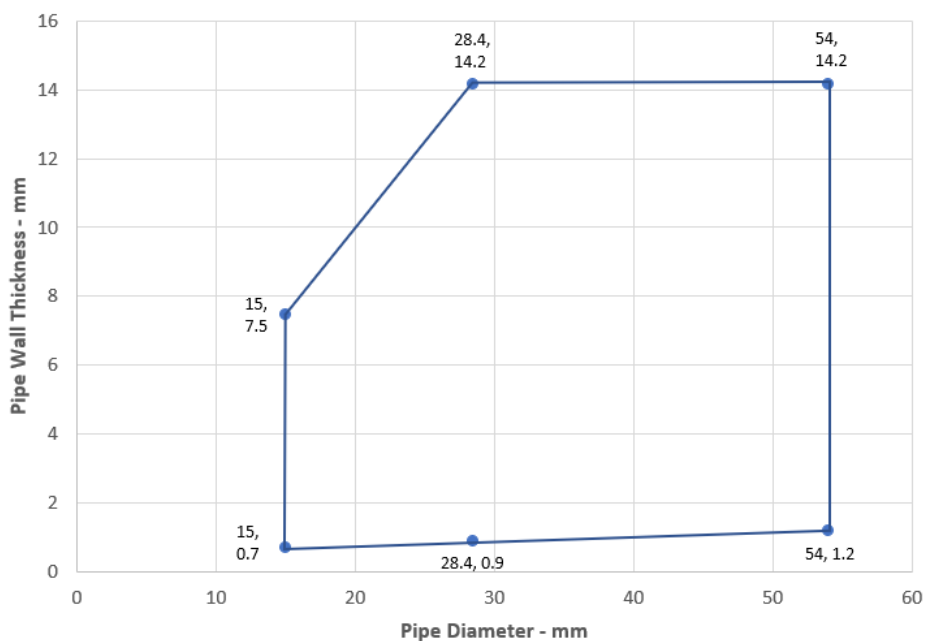
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



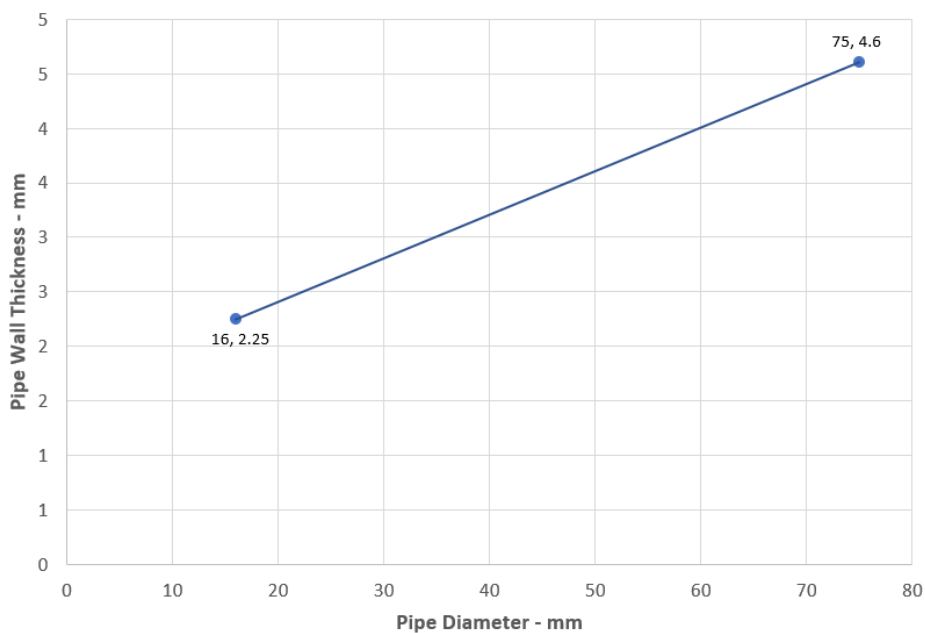
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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



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



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

85/179

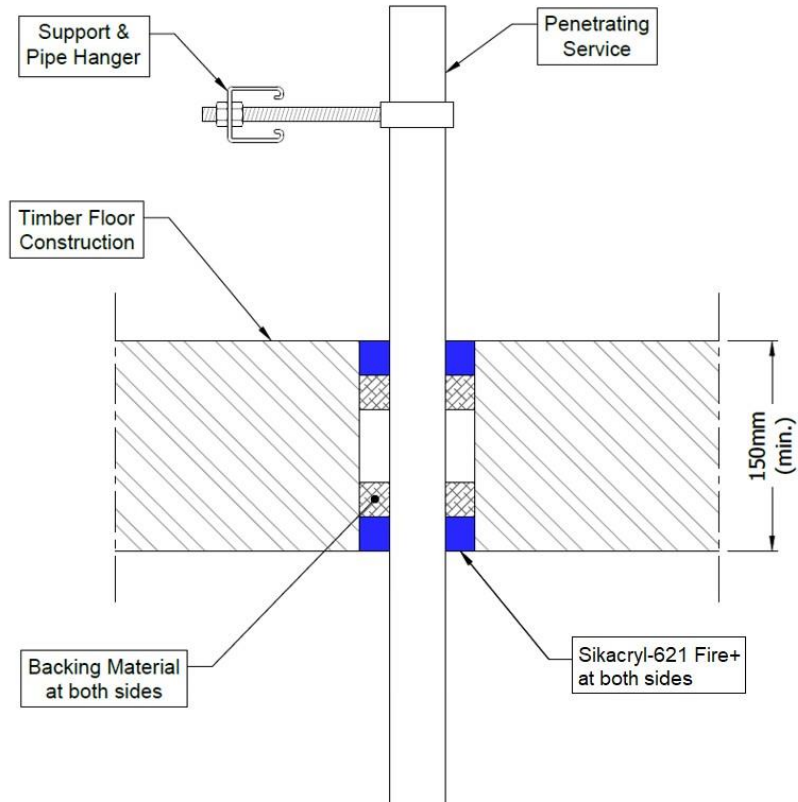
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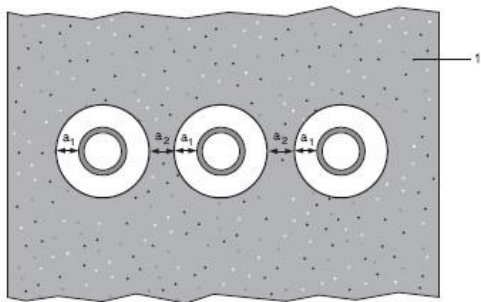
A.7.3 Double side penetration seal with plastic pipes and composite pipes

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

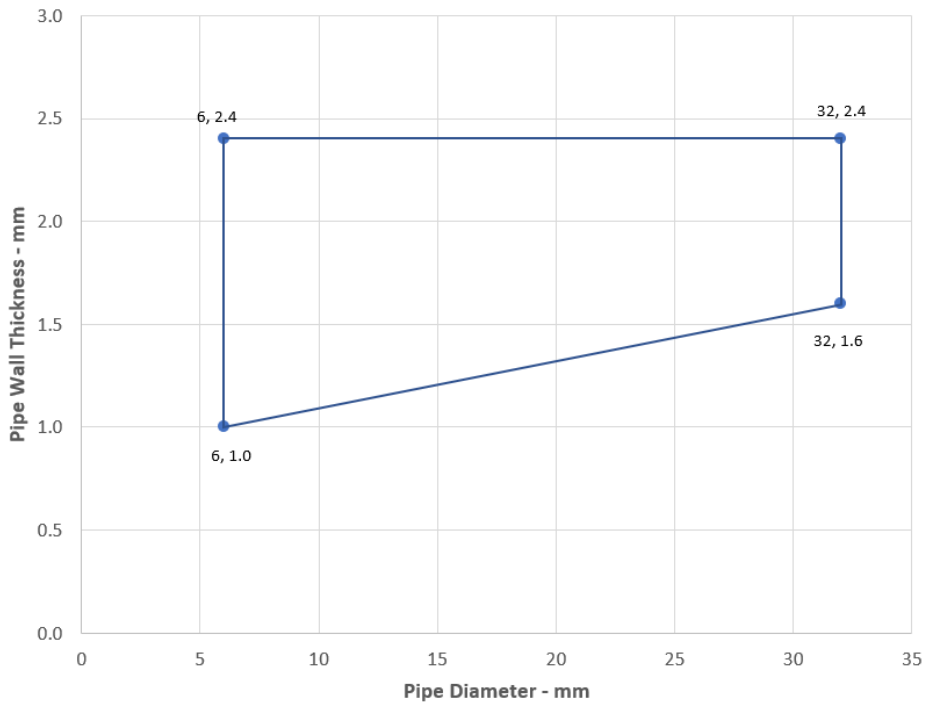
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

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

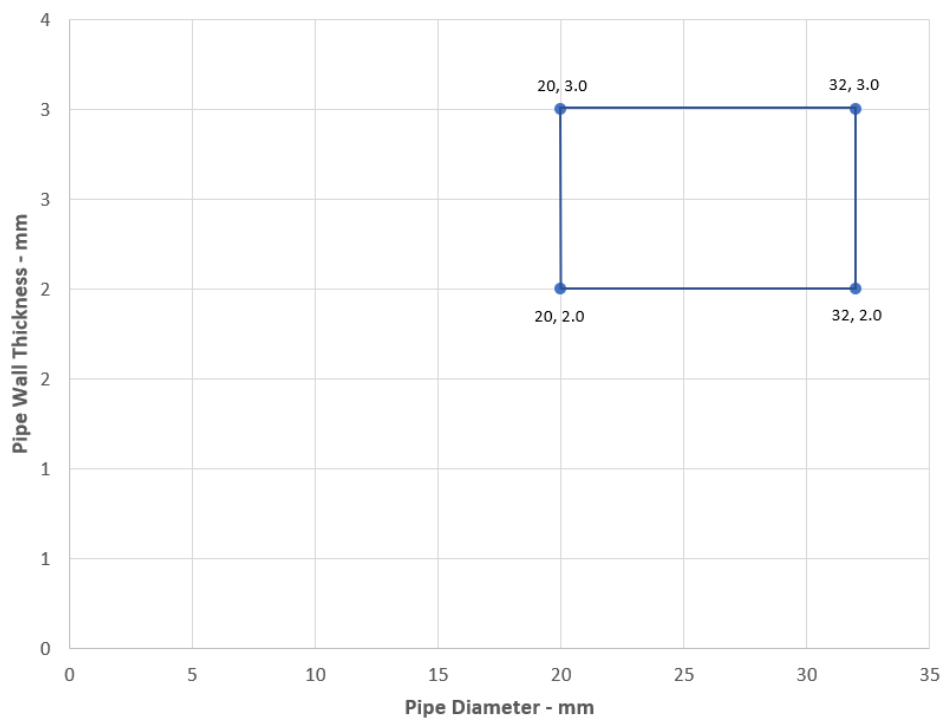
* Typical pipe diameters shown, see below graph for intermediate sizes

PVC-U Pipes EI 120 - U/C

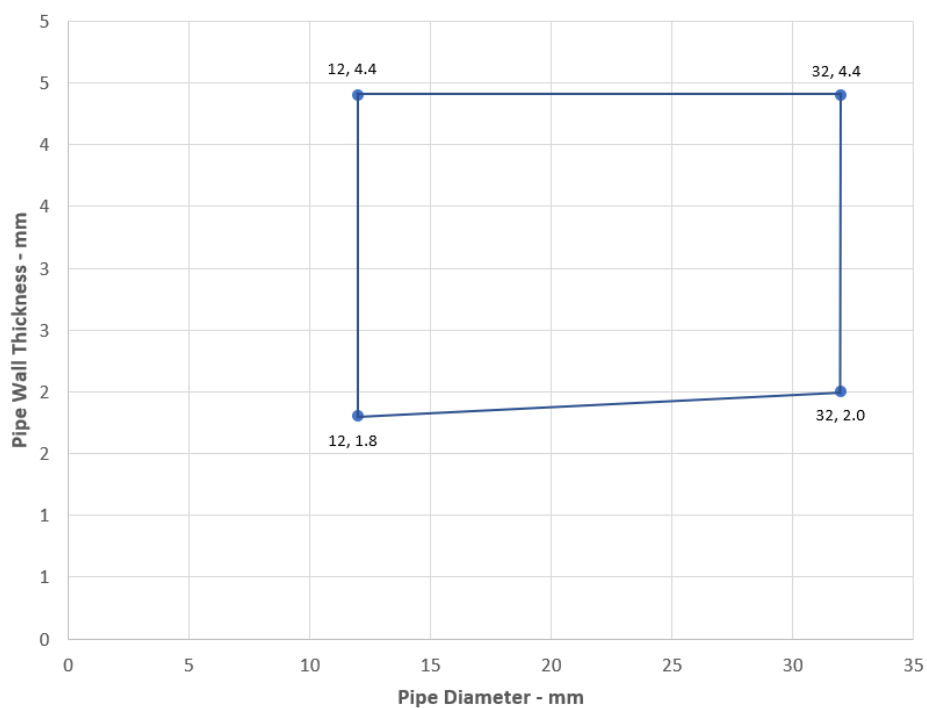


Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

PE Pipes EI 120 - U/C



PP Pipes EI 120 - U/C



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

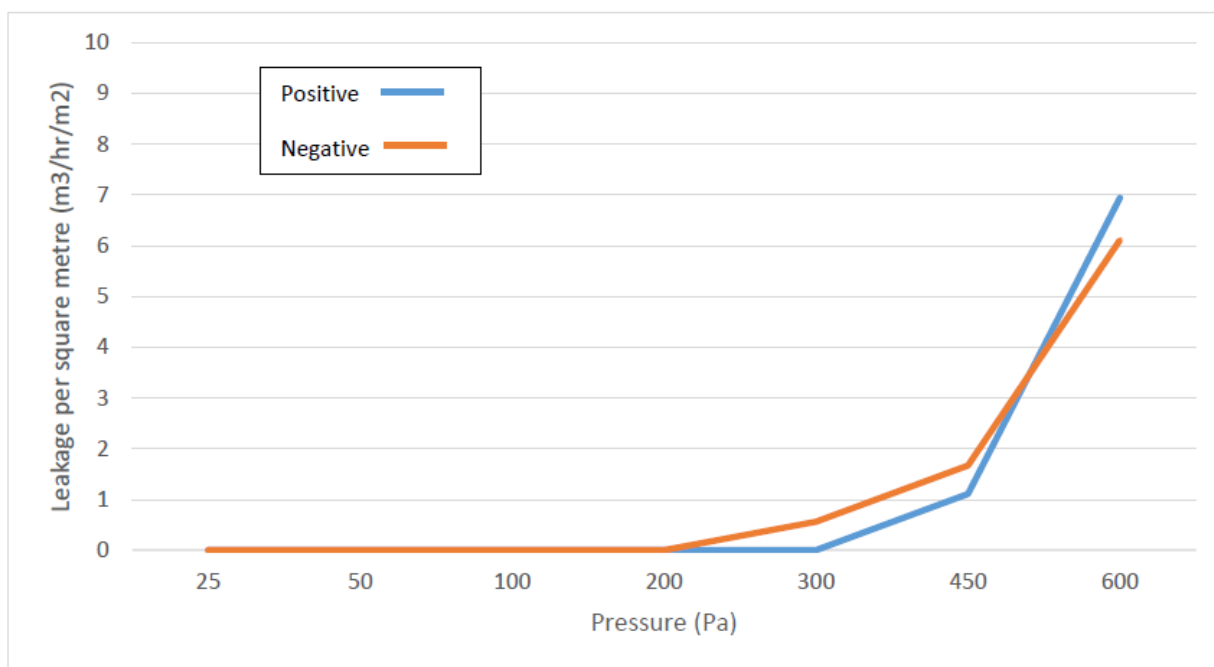
88/179

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ANHANG B – Luftdichtheit – 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



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01, ver. 1.1
 1549

8 ANGEMESSENE TECHNISCHE DOKUMENTATION UND/ODER SPEZIFISCHE TECHNISCHE DOKUMENTATION

Die Leistung des vorstehenden Produkts entspricht der erklärten Leistung/den erklärten Leistungen. Für die Erstellung der Leistungserklärung im Einklang mit der Verordnung (EU) Nr. 305/2011 ist allein der obengenannte Hersteller verantwortlich.

Unterzeichnet für den Hersteller und im Namen des Herstellers von:

Name: Jochen Kammerer
Funktion: PI Sealing & Bonding Sika
Österreich GmbH
In Wien am 14 January 2025

Name: Markus Egger
Funktion: Geschäftsführer Sika Österreich
GmbH
In Wien am 14 January 2025



VOLLSTÄNDIGE CE-KENNZEICHNUNG

 25
Sika Services AG, Zurich, Switzerland
Leistungserklärung Nr. 74951760
Zulassungsstelle 2531
Brandverhalten Klasse B-s1, d0
Beständigkeit Z ₂
Flammwiderstand Anhang A
Luftdichtheit Anhang B

Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

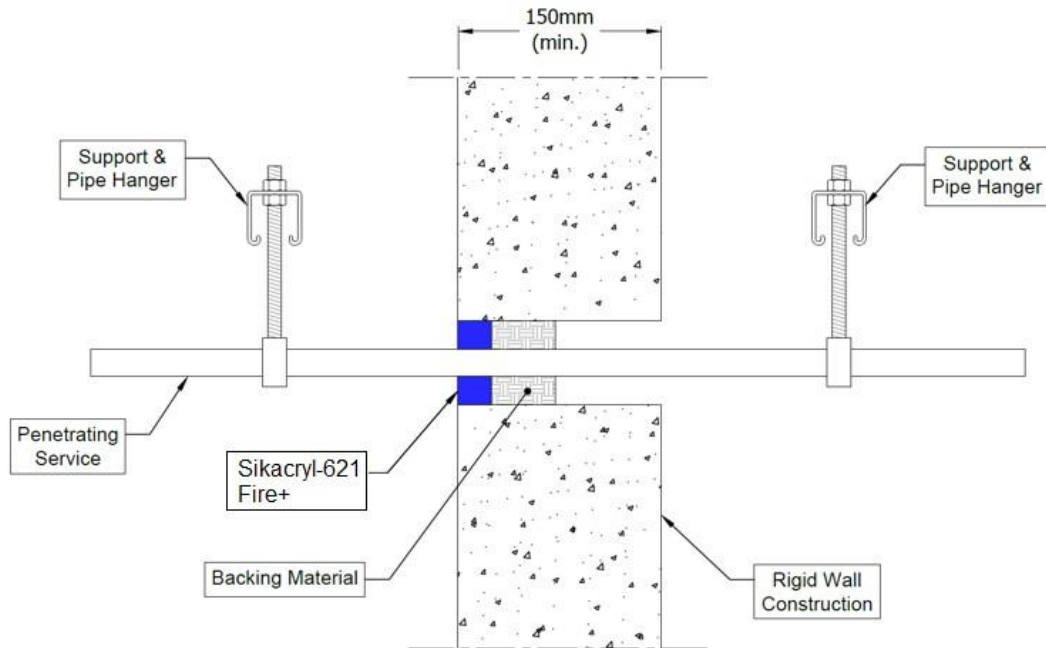
ANHANG A – Klassifizierung des Feuerwiderstands – Sikacryl-621 Fire+

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	
Blank seals				E 240, EI 120
Electric cables up to 21 mm diameter, single.				

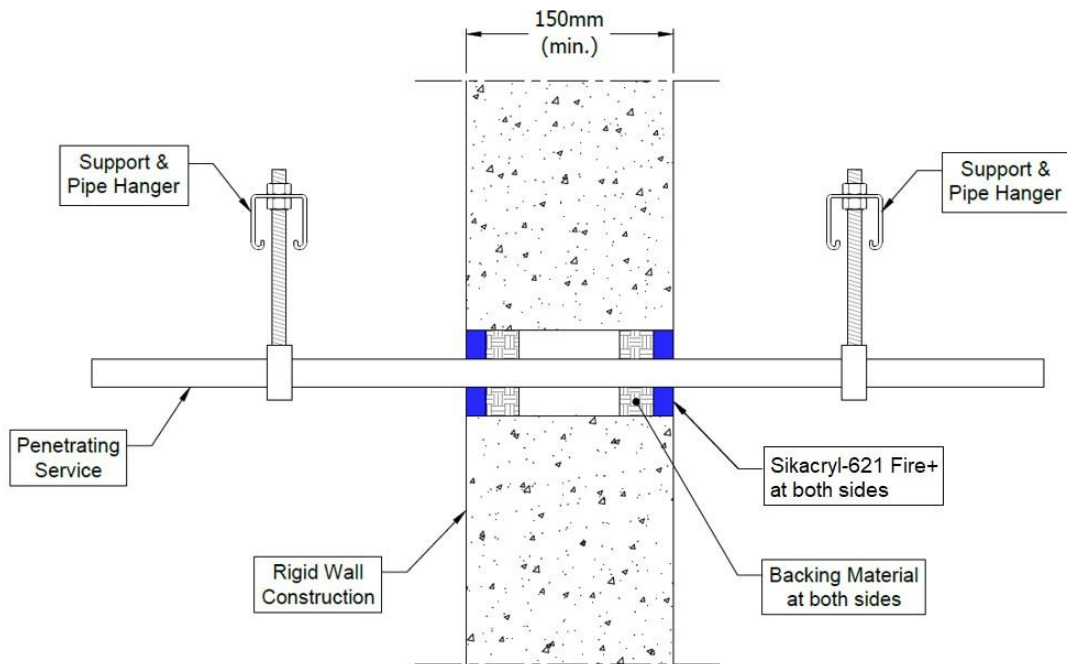
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
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

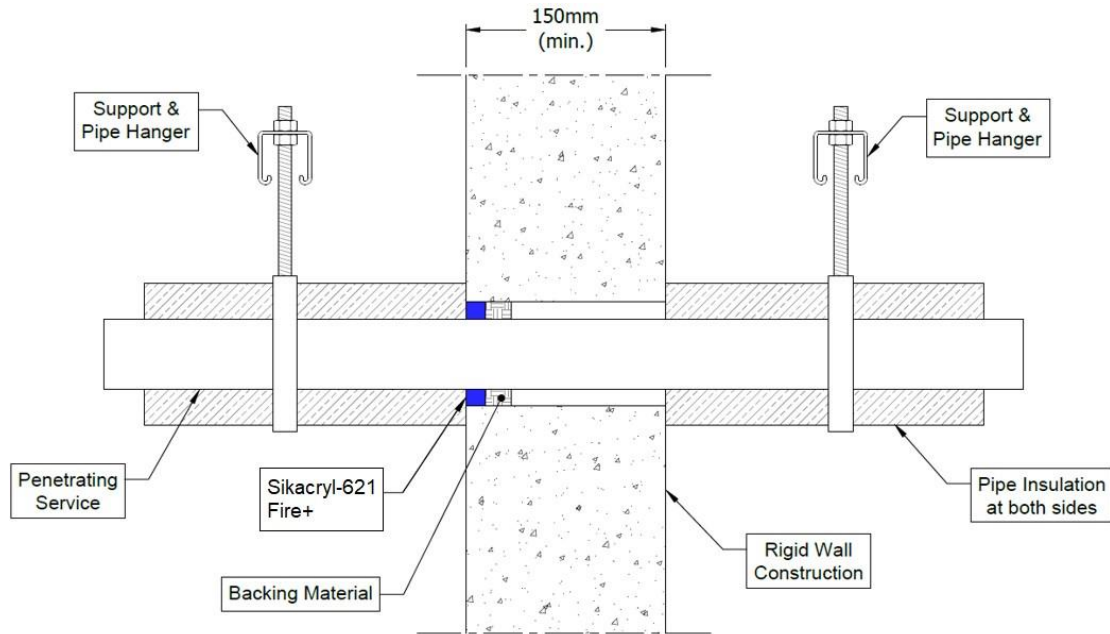
Services	Sealant depth	Backing (minimum)	Insulation	Classification
Blank seals	15 mm	25 mm Stone wool 35 kg/m ³	None	EI 240
Electric cables up to 21 mm diameter, single or in a bundle.				E 240, EI 120
Electric cables 22-80 mm diameter, single or in a bundle.				E 120, EI 60
Blank seals	25 mm	48 mm AES Fibre ≥ 128kg/m ³		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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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

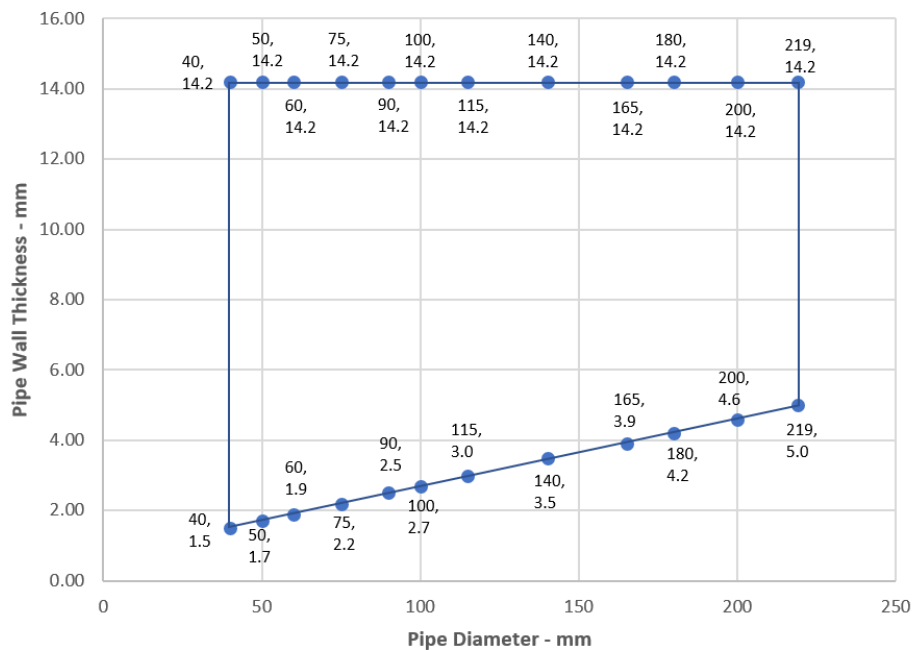
Services	Seal width around pipe	Insulation (minimum)	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	8-9 mm	1000 mm length 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 180 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall	8 mm		EI 240 C/U
Alupex composite pipe 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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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*			
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*			
		1000 mm length of 30 mm Stone wool insulation 80 kg/m ³	E 180 C/U, EI 90 C/U

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

Steel Pipes with Mineral Wool Insulation - C/U



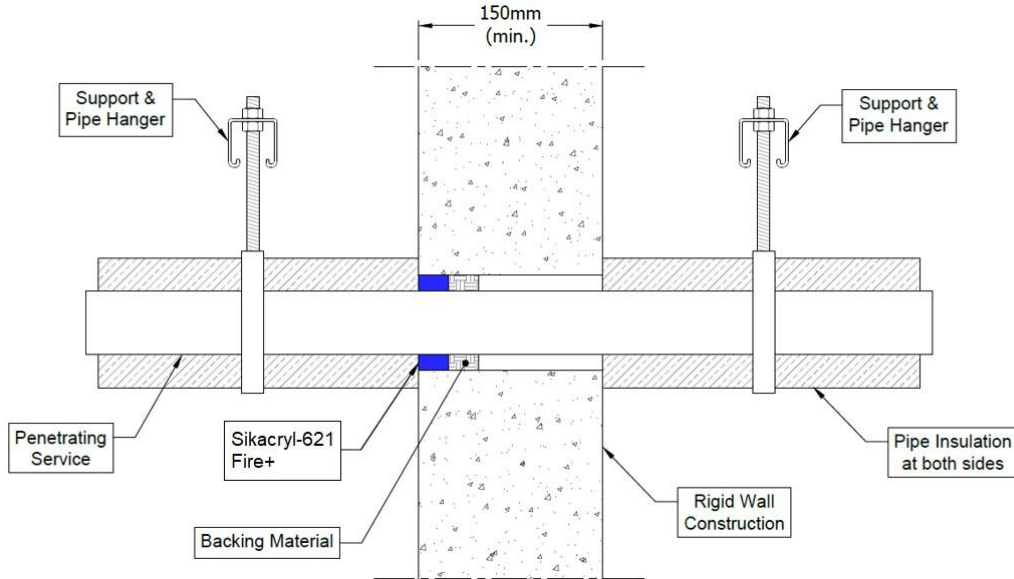
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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

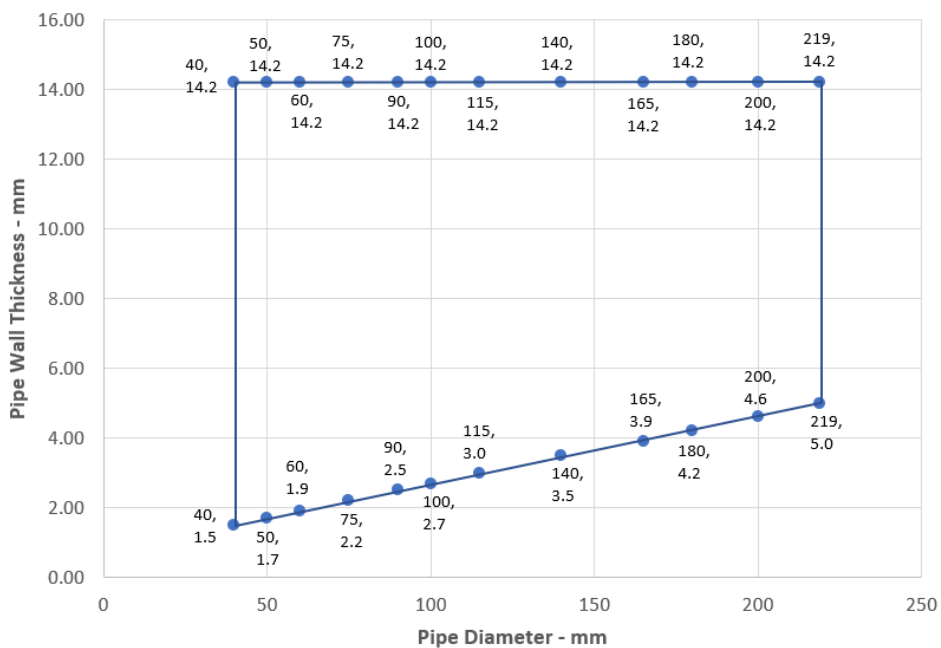
Services	Maximum Seal size	Insulation (minimum)	Classification
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall	300 x 300 mm	1000 mm length 20 mm Stone wool insulation 80 kg/m ³	E 240 C/U, EI 60 C/U
Alupex composite pipe 75 mm diameter/7.5 mm wall		25 mm AES Fibre ≥ 128kg/m ³ insulation, 600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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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



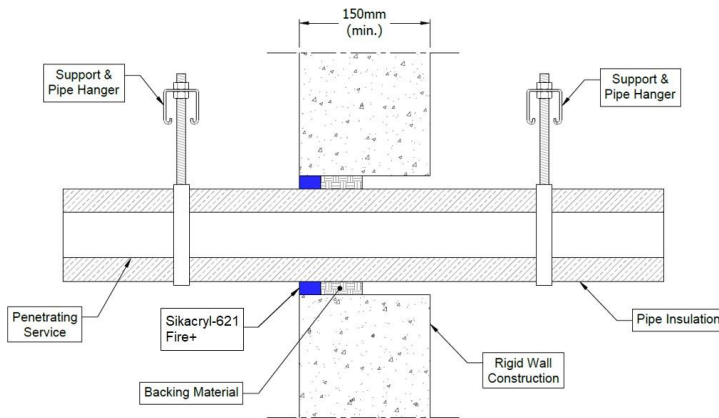
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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*		

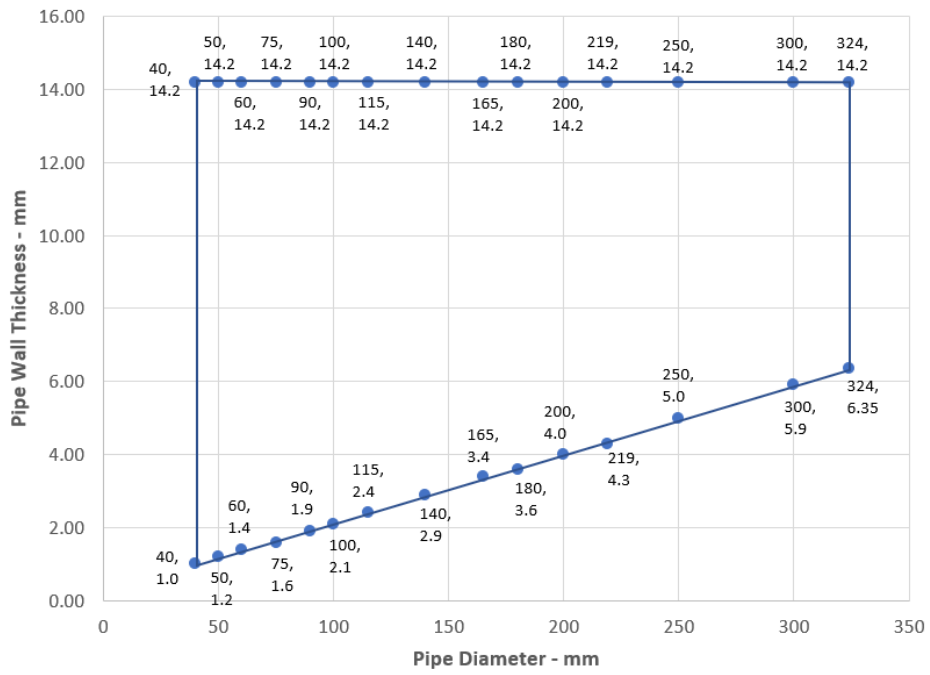
* Typical pipe diameters shown, see below graph for intermediate sizes

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

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Steel Pipes with Mineral Wool Insulation - C/U



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

98/179

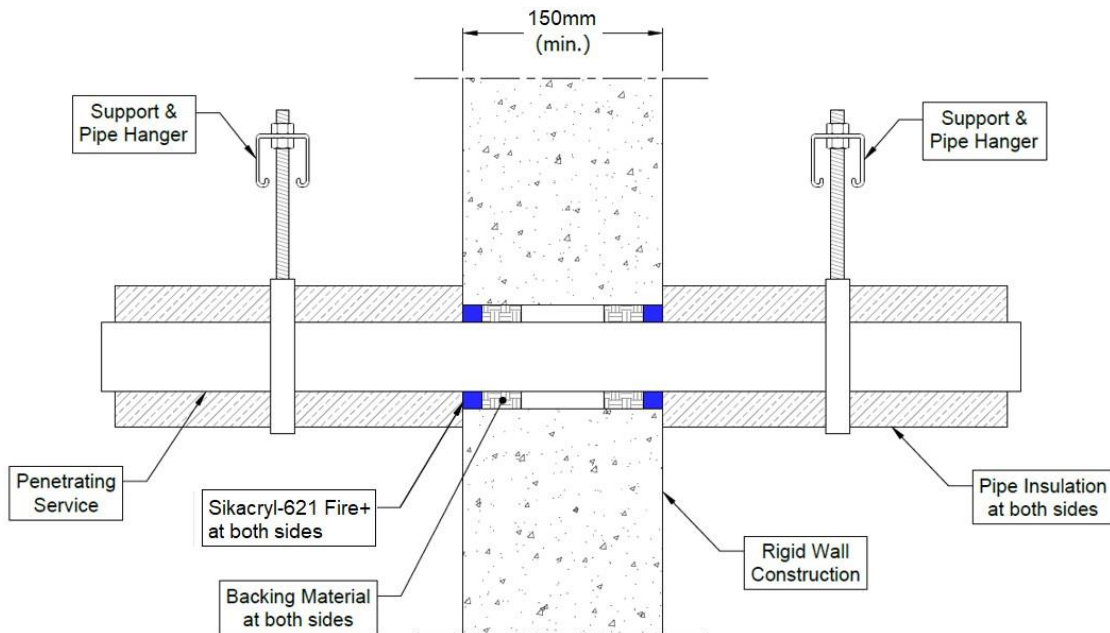
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A.1.6 Double side penetration seal with metallic pipes

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

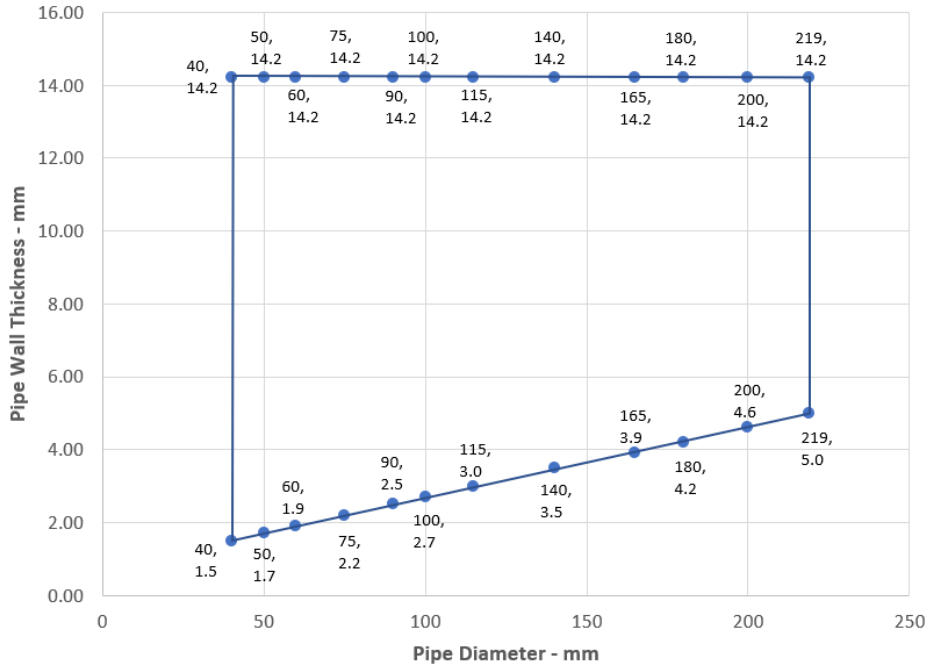
Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1.5-14.2 mm wall*	300 x 300 mm	20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1.5-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m ³	E 240, EI 120 C/U
50 mm diameter/1.7-14.2 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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

Steel Pipes with Mineral Wool Insulation - C/U



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

100/179

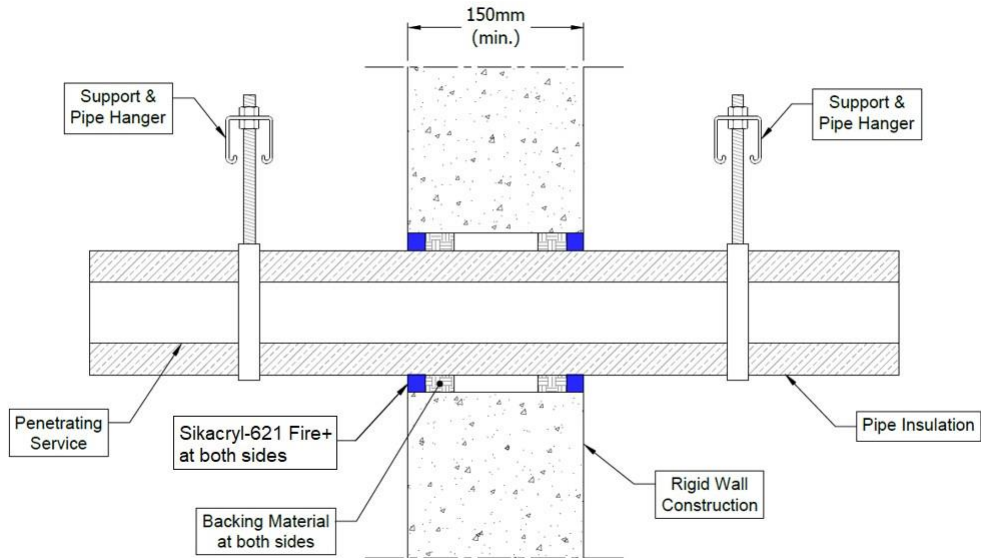
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A.1.7 Double side penetration seal with metallic pipes

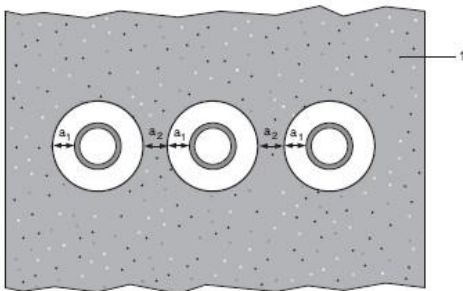
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between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

Construction details:



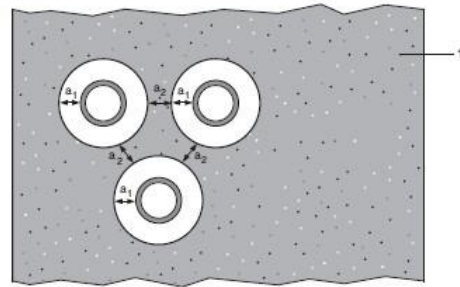
Configuration 1:

Option 1



Configuration 2:

Option 2



Key

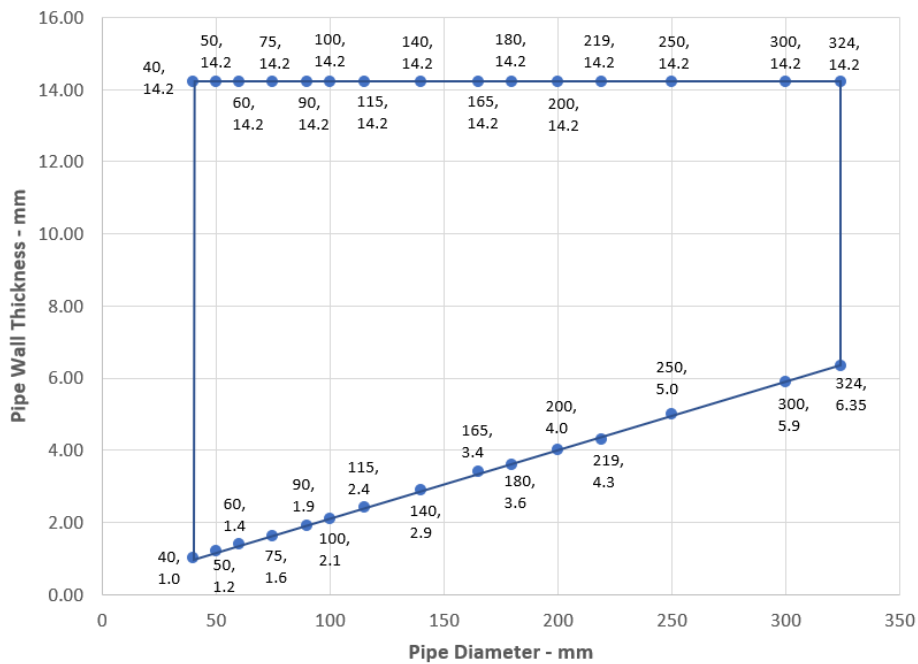
- 1 Supporting construction
- a1 Pipe / top edge of seal separation
- a2 Pipe / side edge of seal separation
- a3 Pipe / pipe separation

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



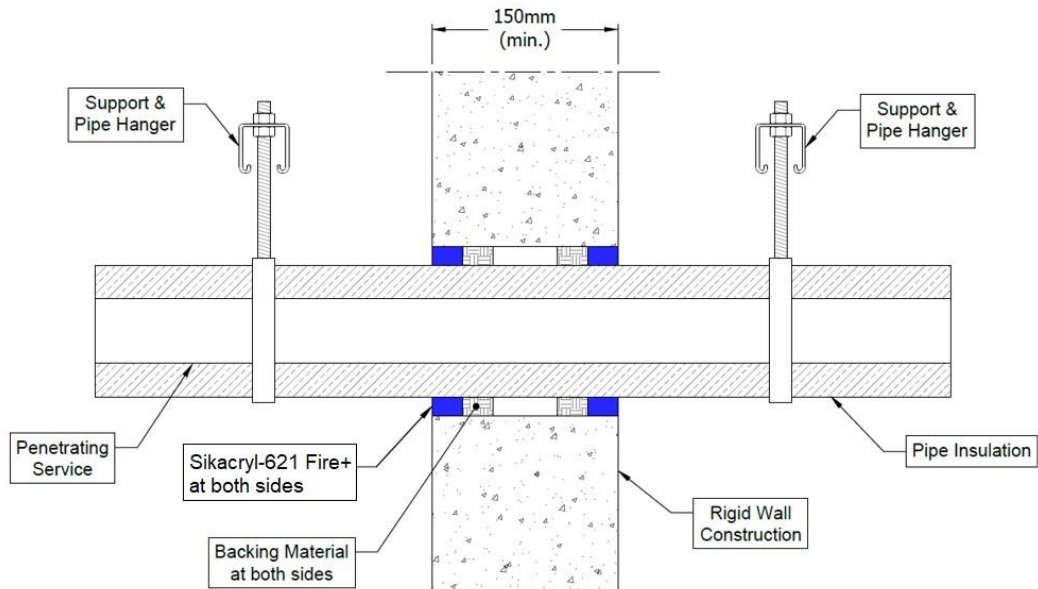
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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

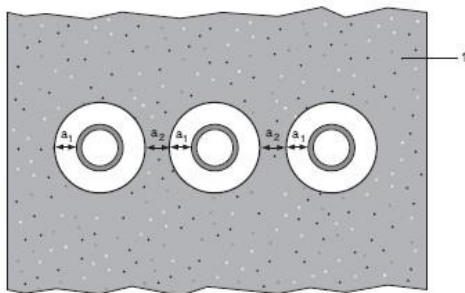
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between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

Construction details:



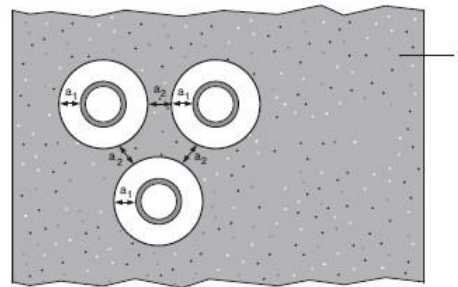
Configuration 1:

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

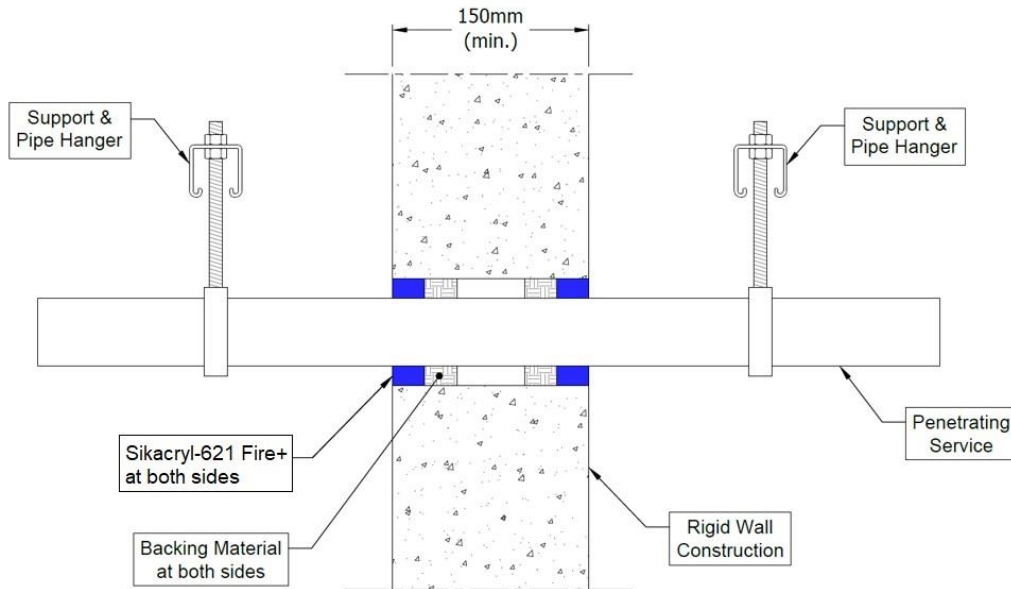
A.1.8.1 Double side penetration seal with metallic pipes with combustible insulation

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

A.1.9 Double side penetration seal with plastic pipes

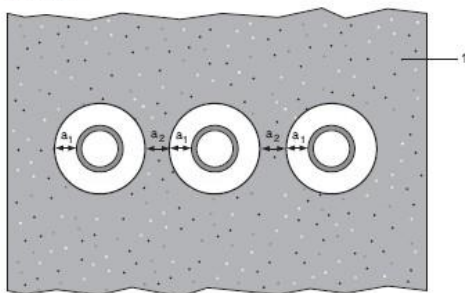
Penetration Seal: Plastic and metal pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm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

Construction details:



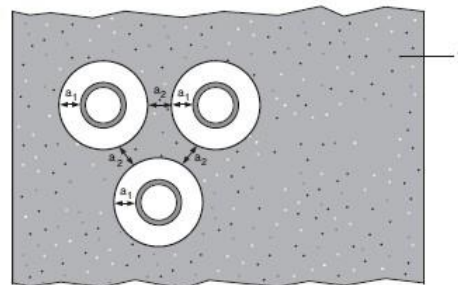
Configuration 1:

Option 1



Configuration 2:

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

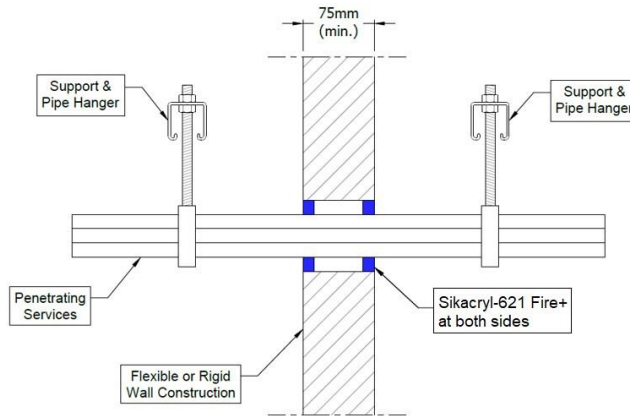
Pipe material	Size	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1	6-32 mm diameter/1.0-2.4 mm wall	EI 240 U/C
PVC with bundle of cables up to 21 mm diameter	6-32 mm diameter/1.0-2.4 mm wall	E 240 U/C, EI 120 U/C
PVC with bundle of cables up to 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

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 \varnothing) 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

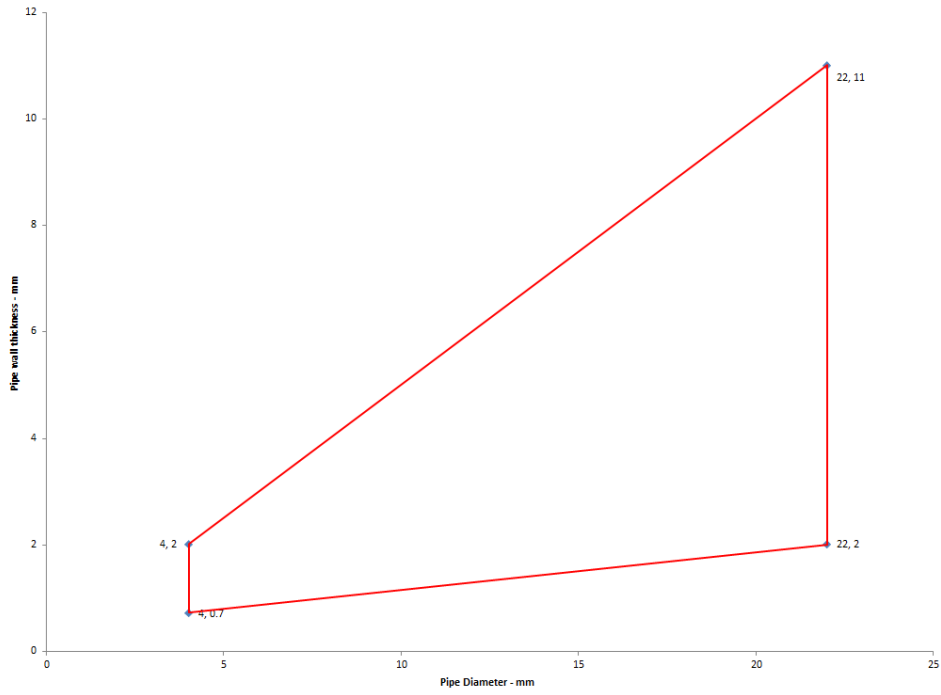
Services	Sealant depth	Backing	Classification
None (blank)	12.5 mm	Any material	EI 60
Cables up to 21 mm \varnothing , single		None	E 60, EI 45
Cables up to 21 mm \varnothing , in bundles up to 100 mm \varnothing			E 45, EI 30
Mild or stainless steel pipe	12.5 mm	None	E 60 C/U, EI 45 C/U
4 mm diameter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

* See below graphs for interpolated pipe sizes

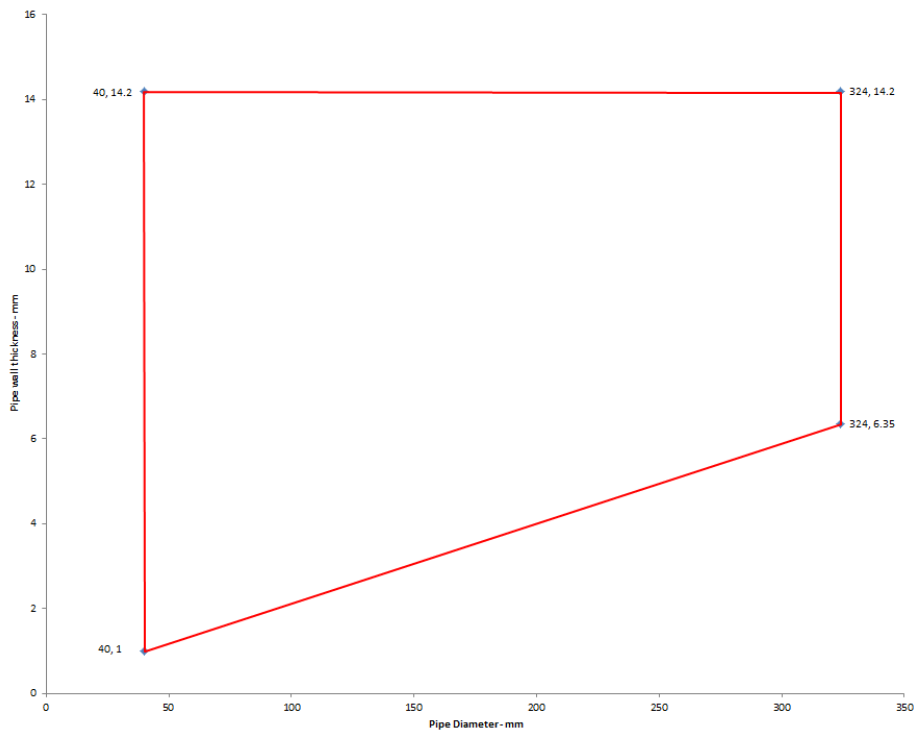
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Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

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



Steel pipes with 30 mm Insulation



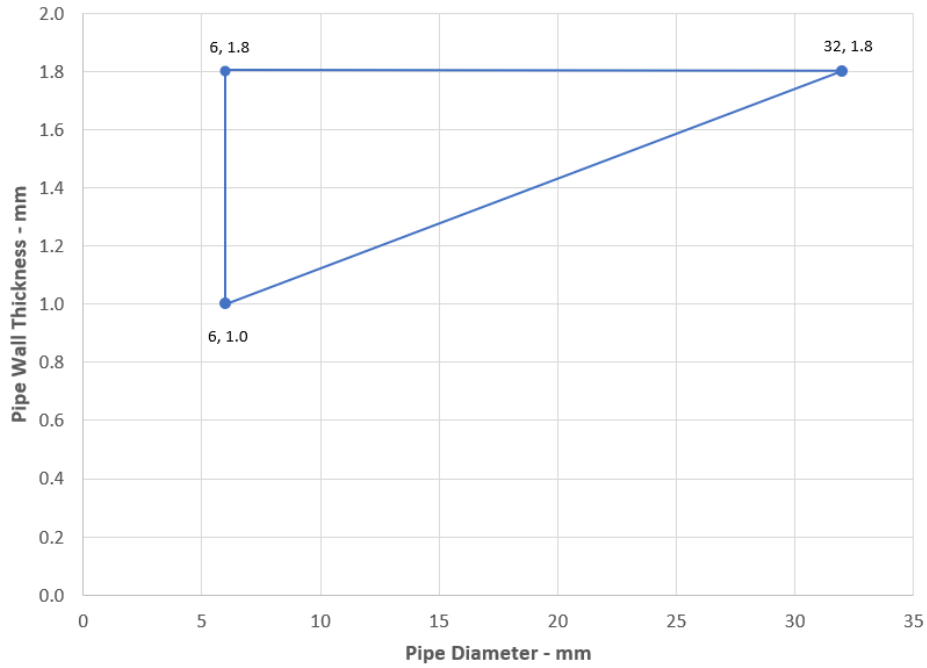
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Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

108/179

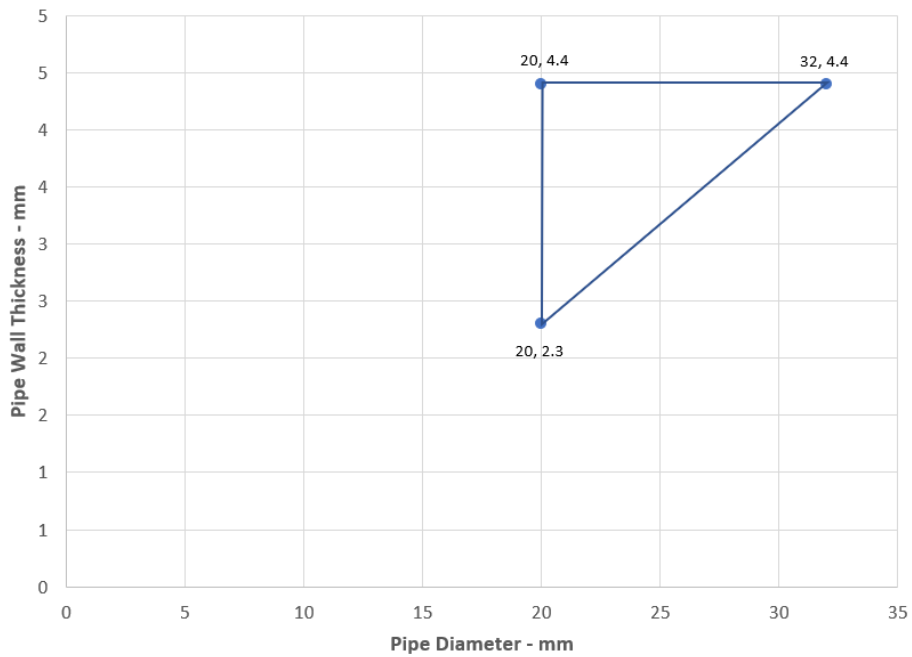
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PVC-U Pipes - U/C



PP Pipes - EI 30 U/C



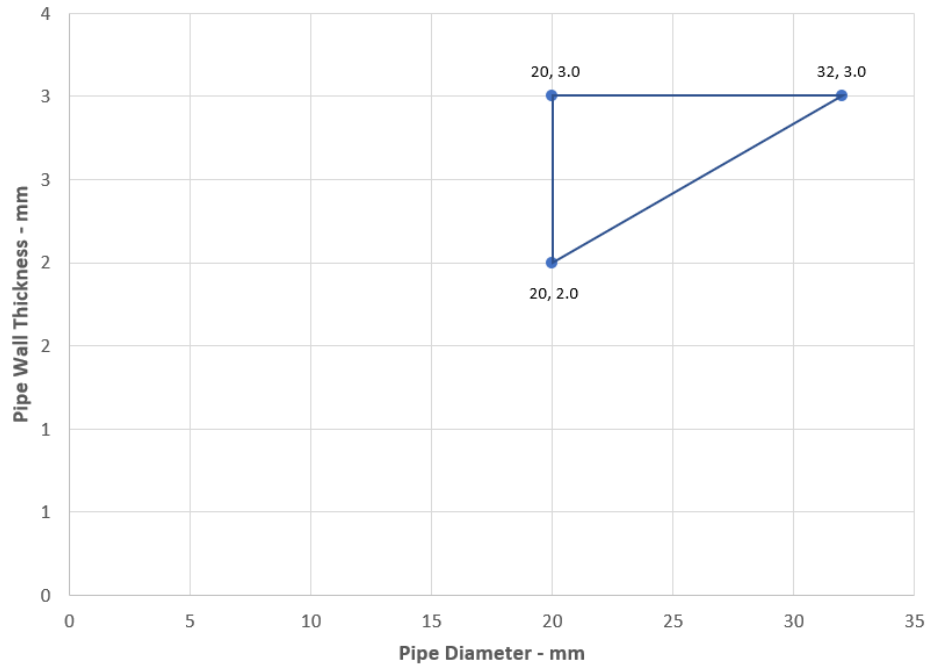
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Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

109/179

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PE Pipes - EI 30 U/C



Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

110/179

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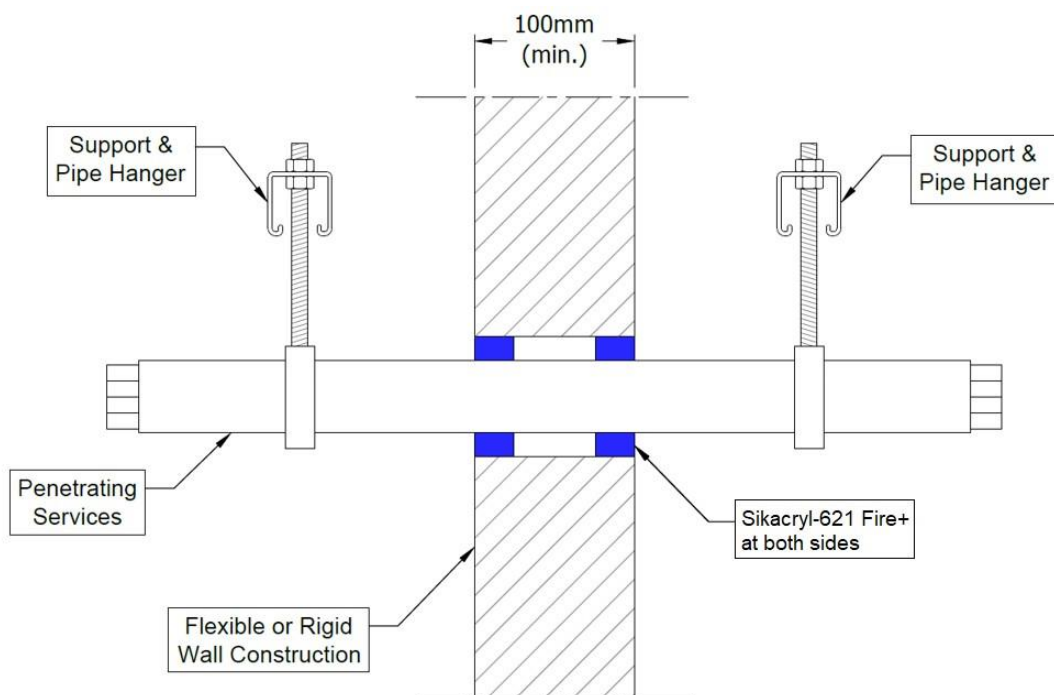
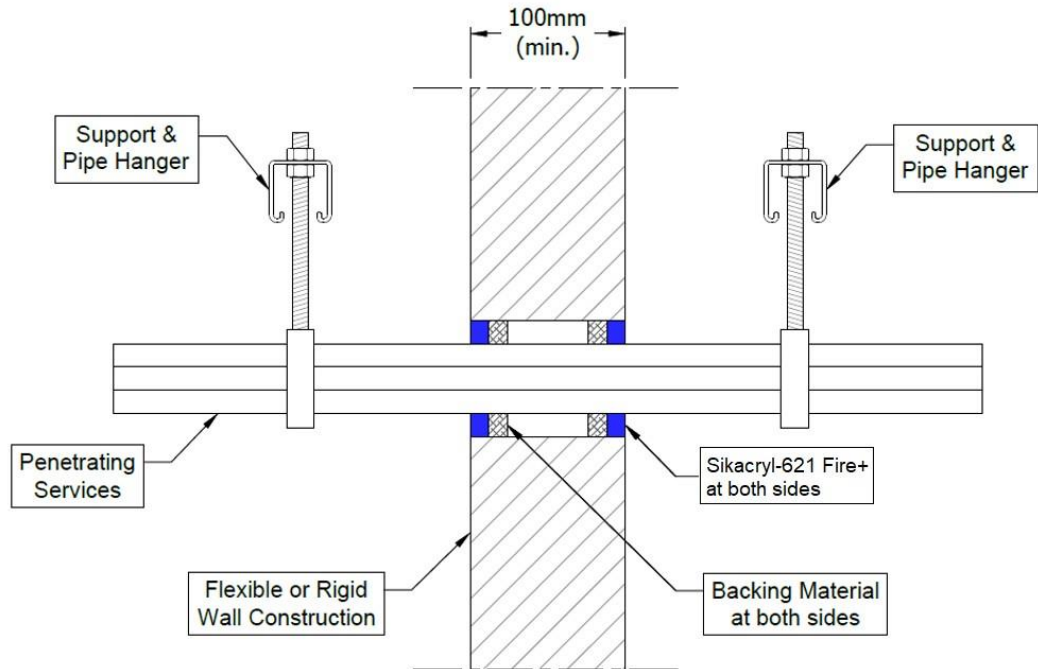


A.3 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 100 mm

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:



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

111/179

BUILDING TRUST



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

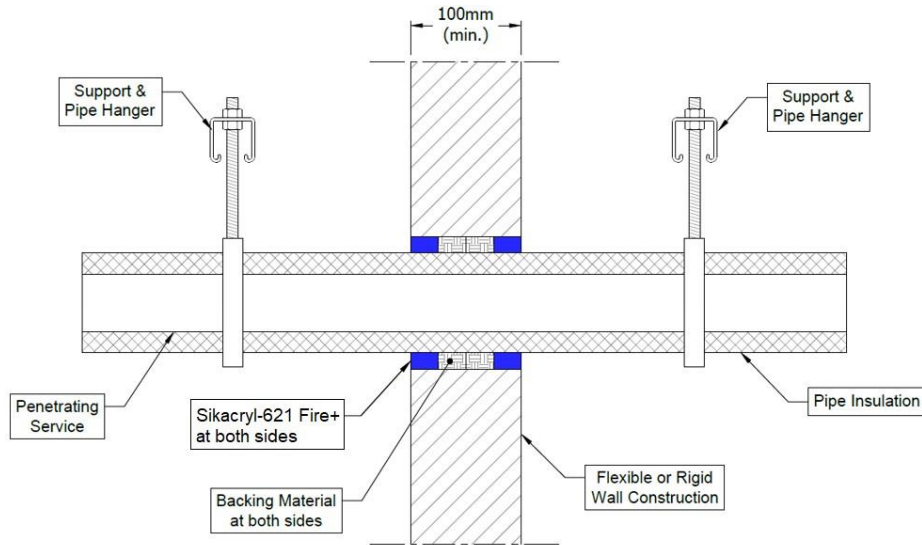
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Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

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

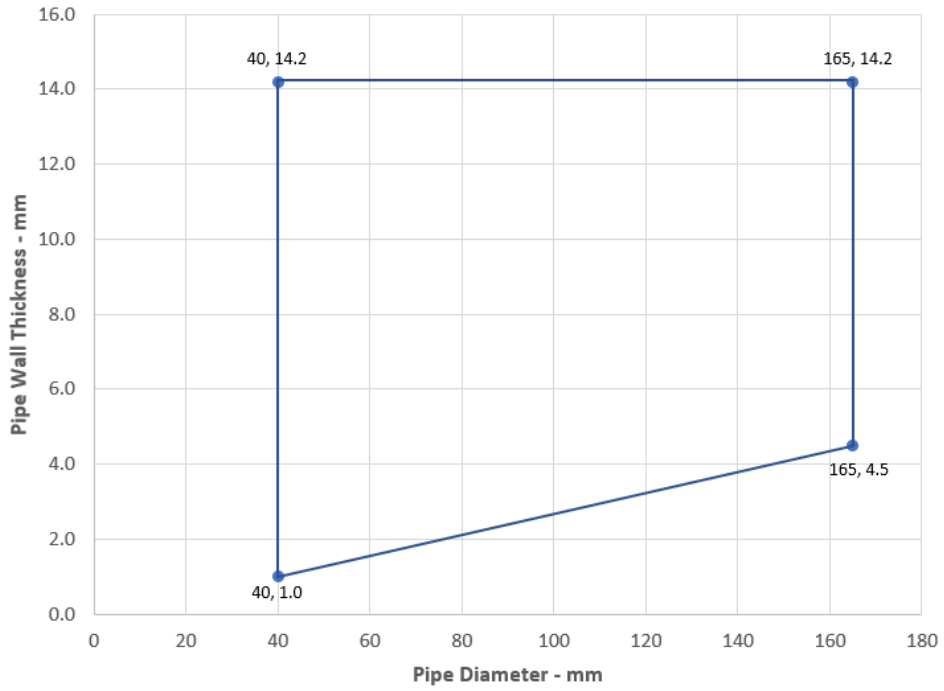
Services	Sealant depth	Backing (minimum)	Insulation	Classification
Mild or stainless steel pipe				
22 mm diameter/3-10 mm wall	25 mm	Stone wool 25 mm deep 35 kg/m ³	None	EI 120 C/C
Maximum 165 mm diameter/ wall*	12.5 mm	12.5 mm stone wool 33 kg/m ³	9 mm Elastomeric insulation minimum class D-s3, d0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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

Steel Pipes with Elastomeric Insulation - C/U



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

114/179

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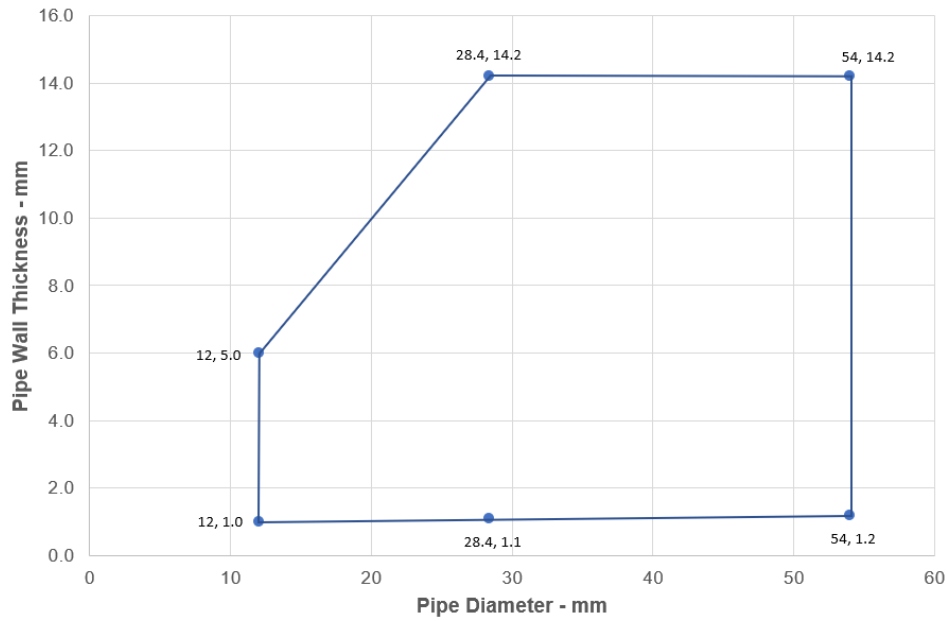
Services	Sealant depth	Backing	Insulation	Classification
Copper or steel pipe				
12 mm diameter/1-6 mm wall	25 mm	25 mm AES Fibre \geq 128kg/m ³	9 mm Elastomeric insulation minimum class B-s3,d0	EI 120 C/C
12-54 mm diameter/1-14.2 mm wall*			9-18 mm Elastomeric insulation minimum class B-s3,d0	E 120 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/m ³	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	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 \geq 128kg/m ³	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

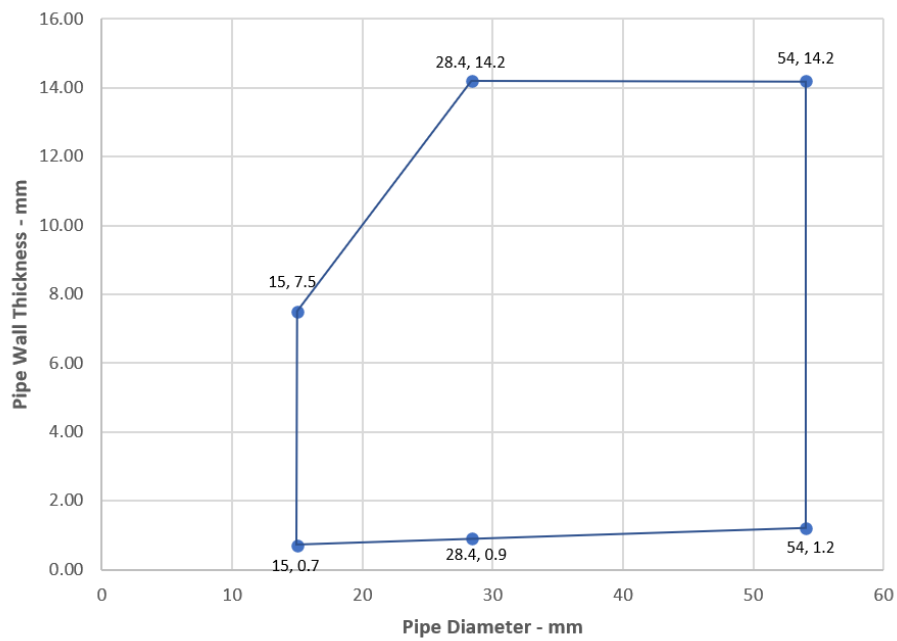
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

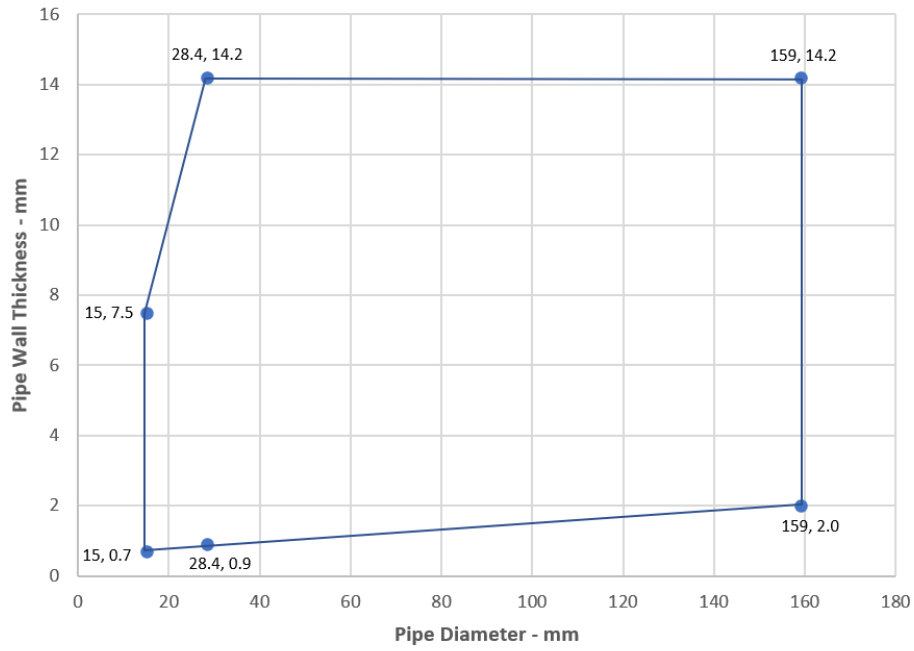
Copper or Steel Pipes with Elastomeric Insulation - C/C



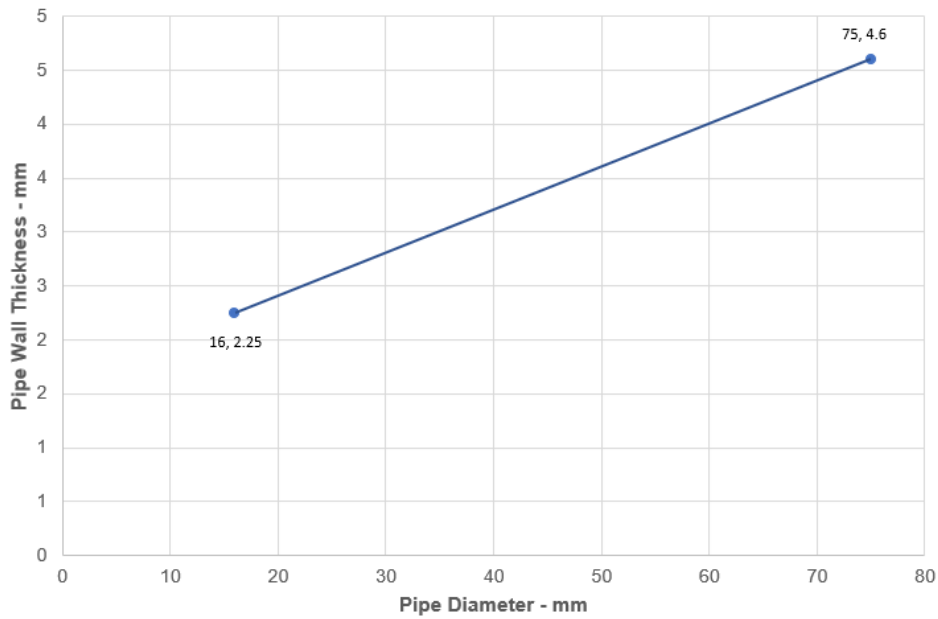
Copper or Steel Pipes with Phenolic Foam Insulation - C/C



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



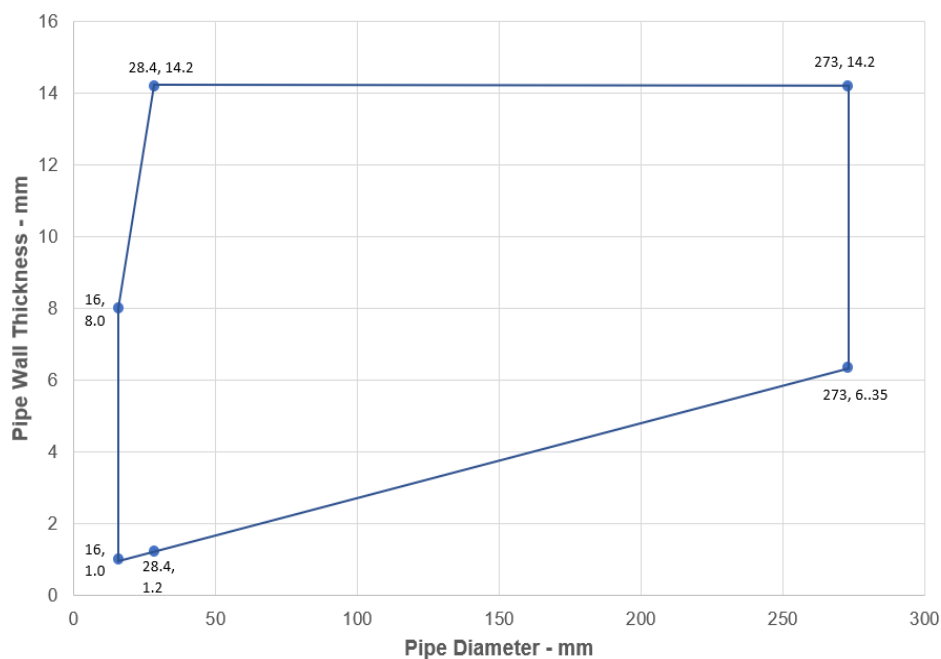
Alupex Pipes with Elastomeric Insulation - C/C



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



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

118/179

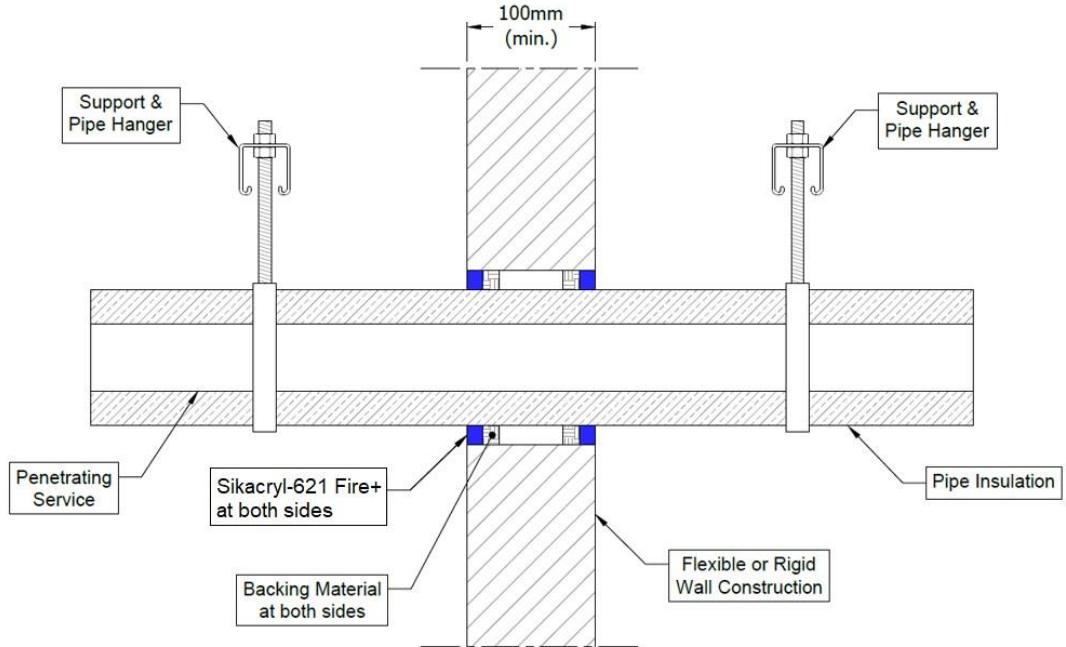
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A.3.3 Double side penetration seal with metallic pipes

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 \varnothing

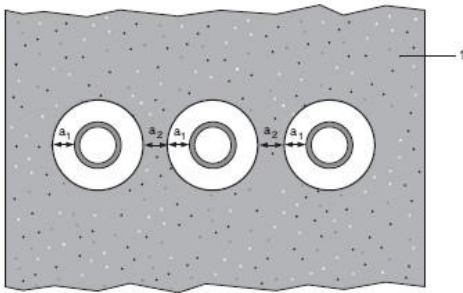
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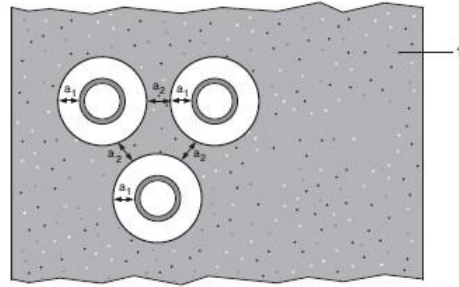
Configuration 1:

Configuration 2:

Option 1



Option 2



Key

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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01, ver. 1.1
 1549

119/179

BUILDING TRUST

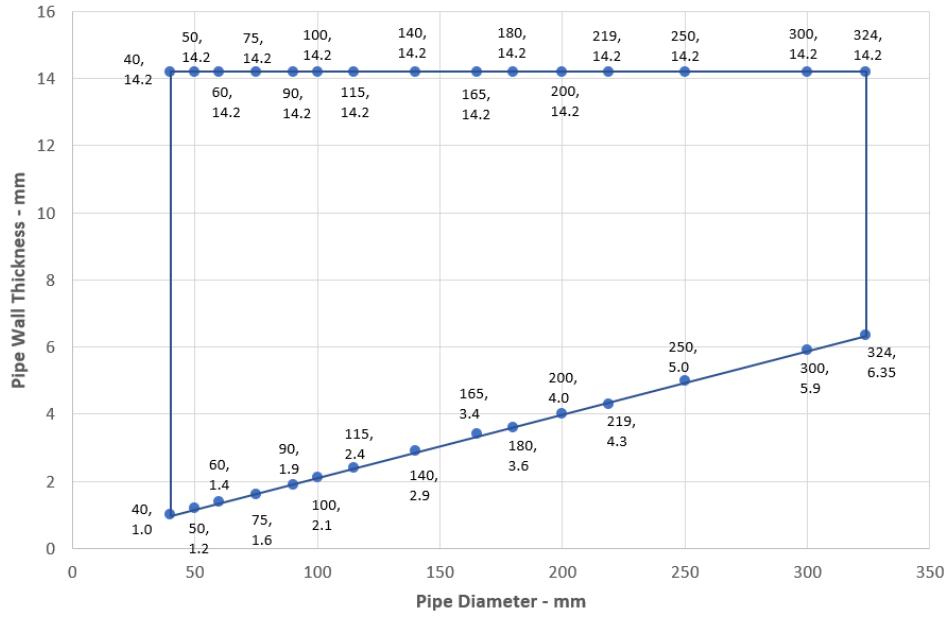


A.3.3.1 Double side penetration seal with pipes

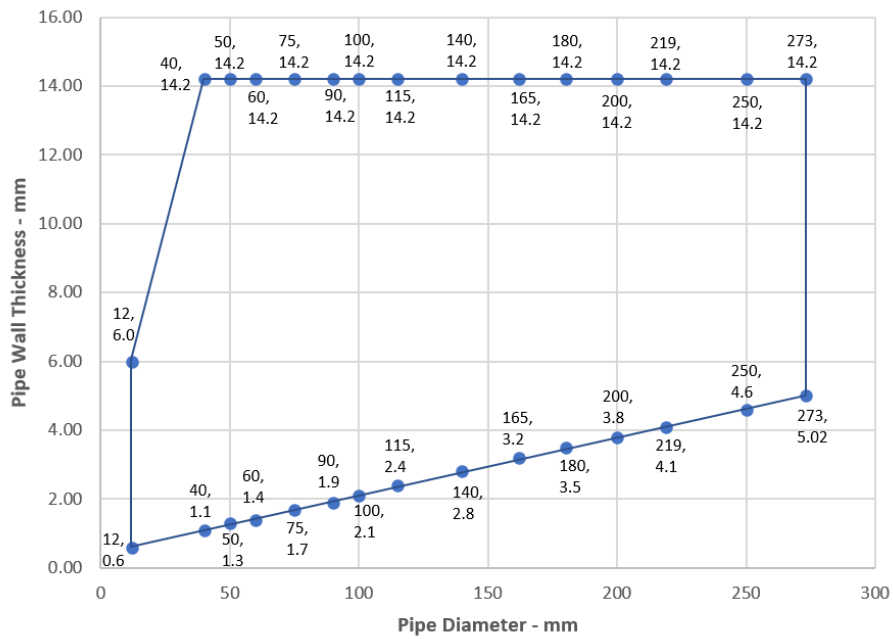
Services	Insulation	Classification
Mild or stainless steel pipe		
40 mm diameter/1-14.2 mm wall	20 mm thick stone, mineral wool min. 80 kg/m ³	E 120 C/U EI 90 C/U
40 mm diameter/1-14.2 mm wall*	30-80 mm thick stone, mineral wool min. 80 kg/m ³	
50 mm diameter/1.2-14.2 mm wall*		
60 mm diameter/1.4-14.2 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*		

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

Steel Pipes with Mineral Wool Insulation - C/U



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



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

121/179

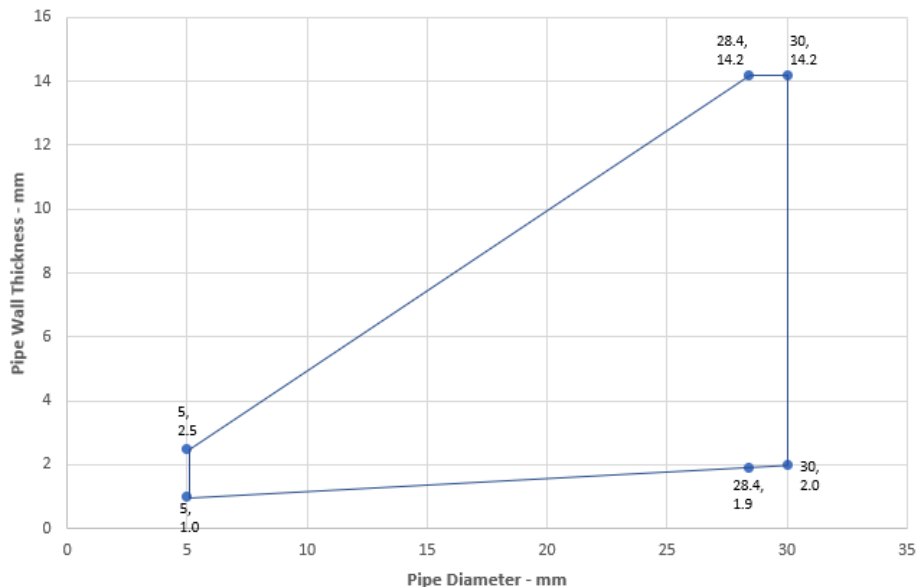
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Services	Insulation	Classification
PEX pipe in pipe system		
15 mm diameter x 2.5 mm wall inner /25mm diameter outer	None	EI 120 C/C
Alupex pipe		
16-20 mm diameter/2.0 mm wall	None	EI 120 C/C
16-75 mm diameter/2.25-4.6 mm	20-50 mm thick glass wool 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

Steel Pipes - C/C



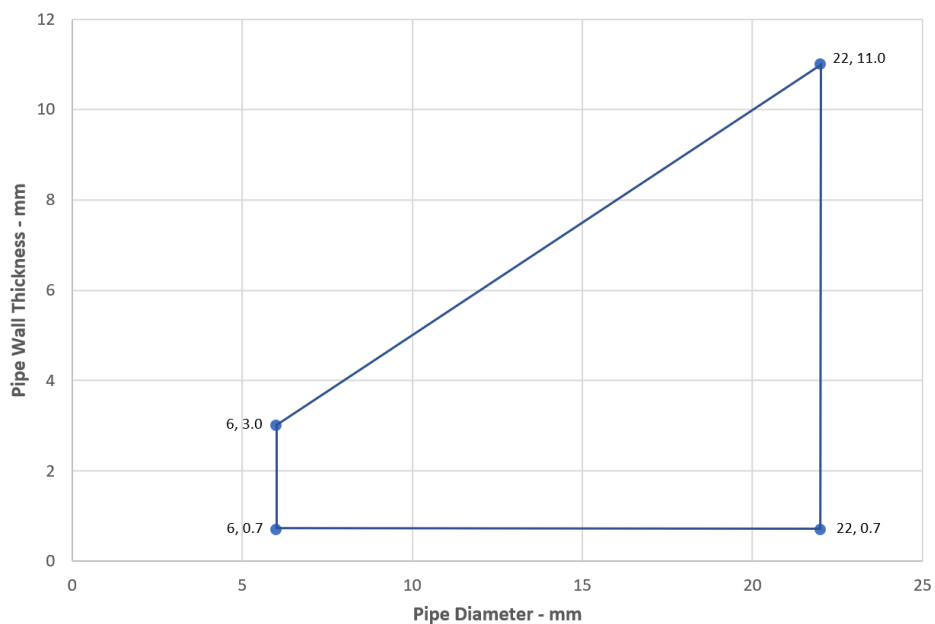
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

122/179

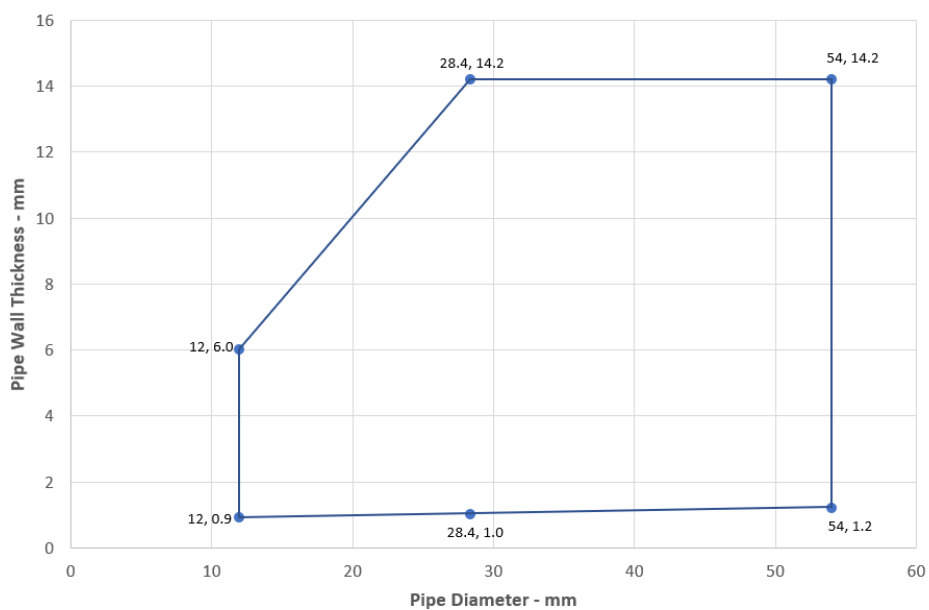
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Copper or Steel Pipes - C/C



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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

123/179

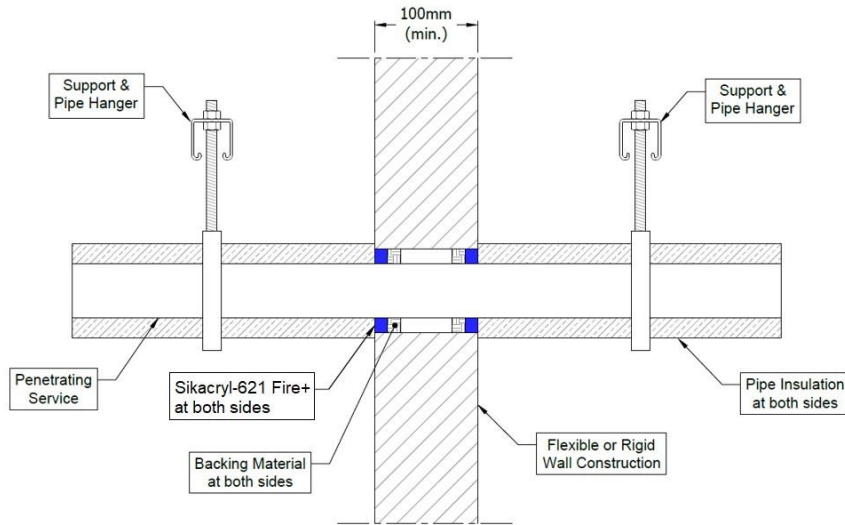
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A.3.4 Double side penetration seal with composite pipes

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

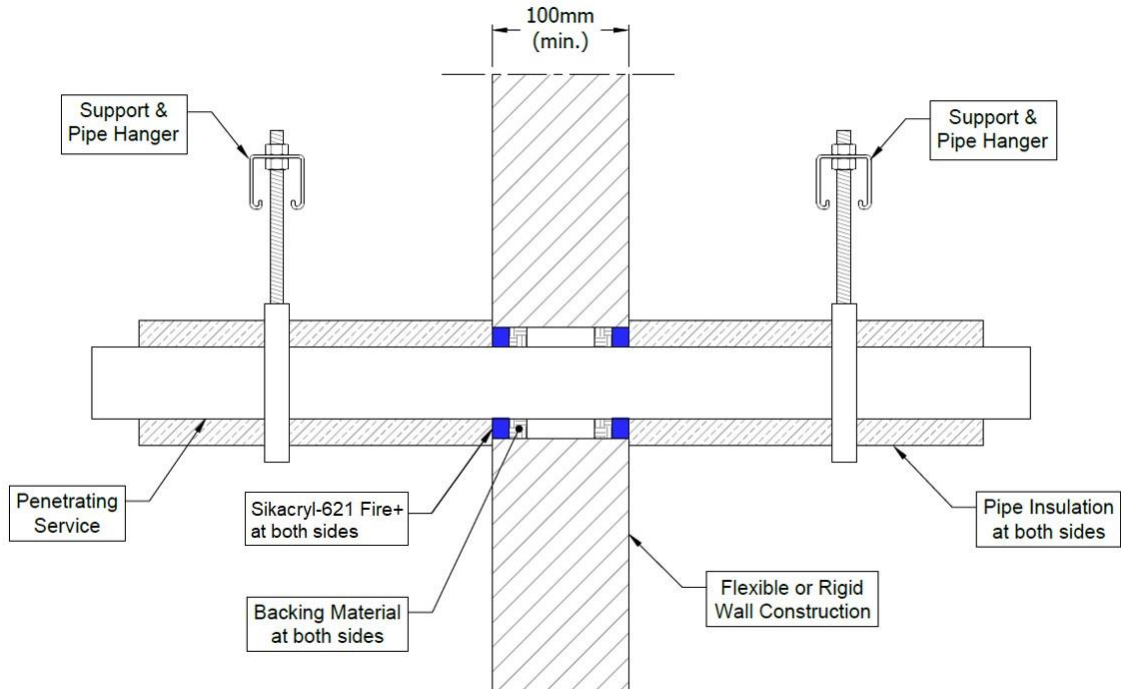
Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 mm wall	12.5 mm	12.5 mm stonewool 40 kg/m ³	20 mm stonewool 80 kg/m ³ , 500 mm length from both sides of the seal	EI 120 C/C
20 mm diameter/2.5 mm wall				
26 mm diameter/3 mm wall				
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	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
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				

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

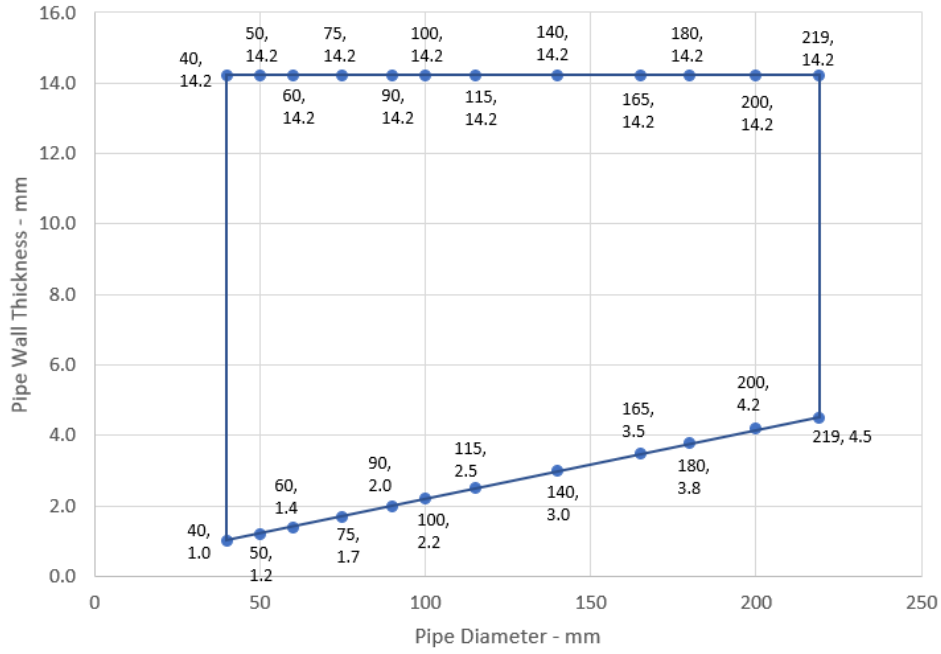
Services	Sealant depth	Backing (minimum)	Insulation (minimum)	Classification
Mild or stainless steel pipe				
Maximum aperture size 300 x 300 mm				
40 mm diameter/1-14.2 mm wall	12.5 mm	20mm Stone wool 40 kg/m ³	500 mm length of 20 mm stone wool 80 kg/m ³	EI 120 C/U
40 mm diameter/1-14.2 mm wall*			500 mm length of 30 mm stone wool 80 kg/m ³	
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

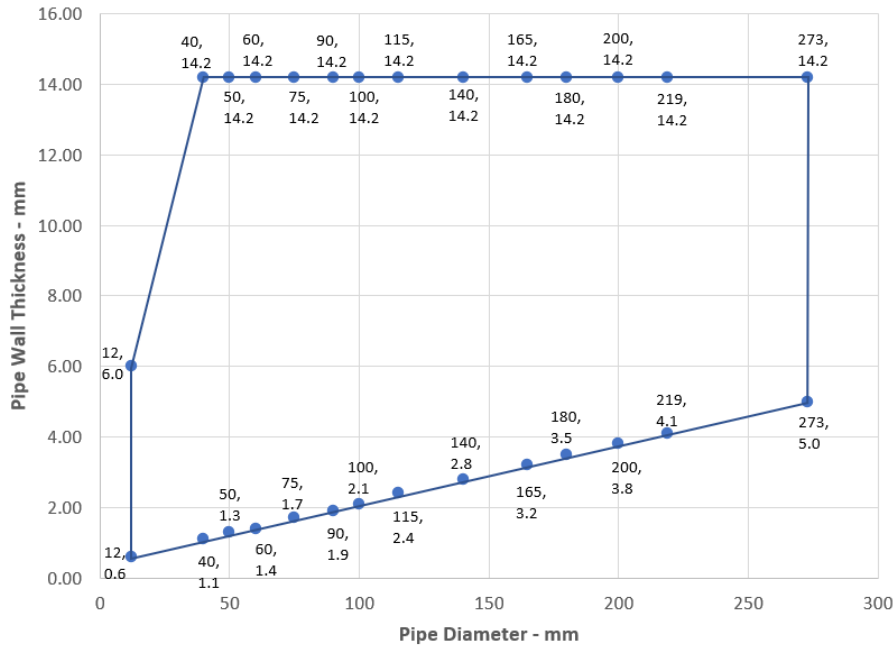
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

Steel Pipes with Mineral Wool Insulation - C/U



Steel Pipes with Glass Wool Insulation - C/C



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

127/179

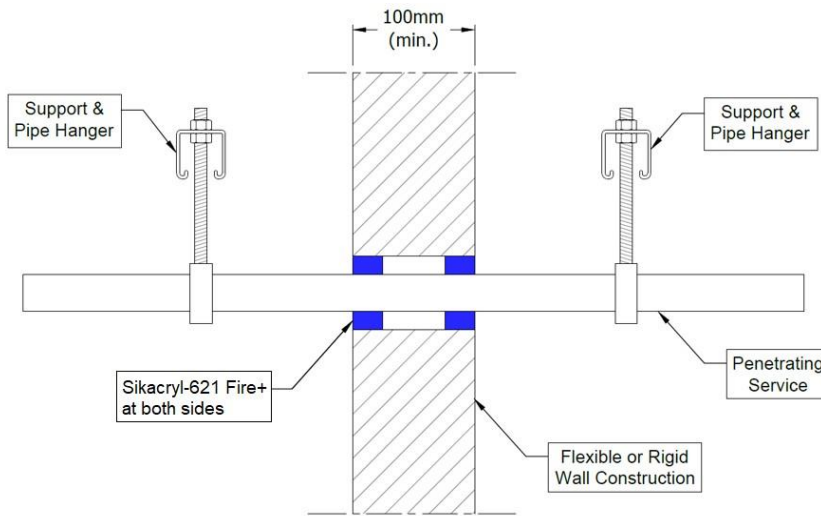
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A.3.6 Double side penetration seal with plastic pipes

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

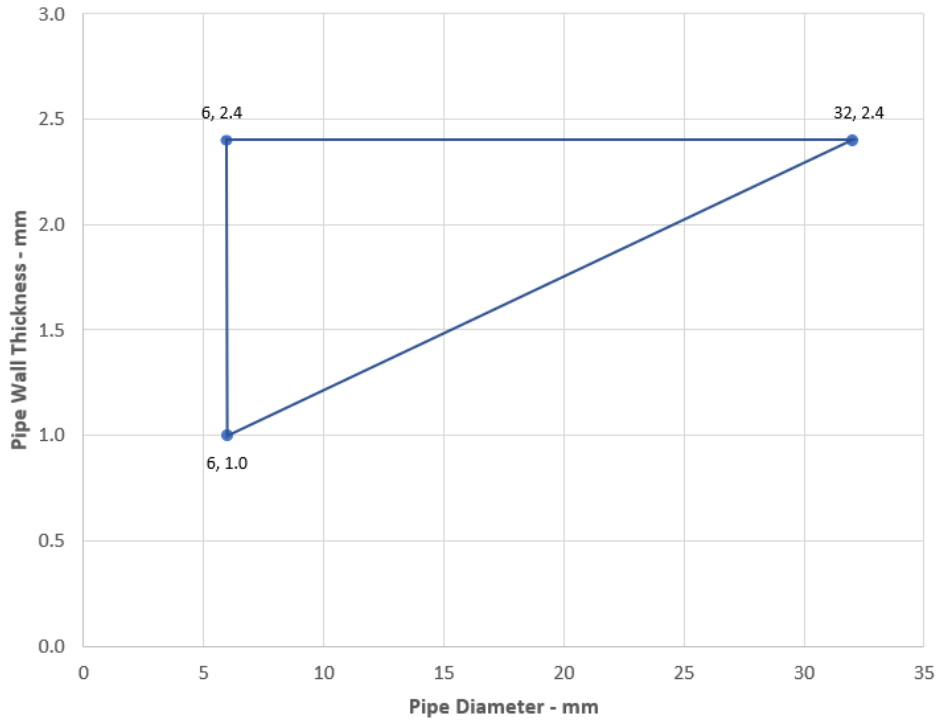
Pipe material	Sealant depth	Pipe size	Maximum Annular space	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1	25 mm	6-32 mm \varnothing /1.0-2.4 mm wall*	10 mm	EI 120 U/C
		6-32 mm \varnothing /1.0-1.6 mm wall	30 mm	E 120 U/C, EI 90 U/C
20 mm \varnothing /2.2 mm wall		EI 120 C/C		
PP pipe according to EN 1451-1 or DIN 8077/8078		20 mm \varnothing /2.2-4.4 mm wall	30 mm	EI 120 U/C
		20-32 mm \varnothing /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 \varnothing /2.0 mm wall	30 mm	EI 60 C/C
		20-32 mm \varnothing /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	E 60 C/C, EI 45 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	EI 45 C/C

* See below graphs for interpolated pipe sizes

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

PVC-U Pipes - U/C



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

129/179

BUILDING TRUST

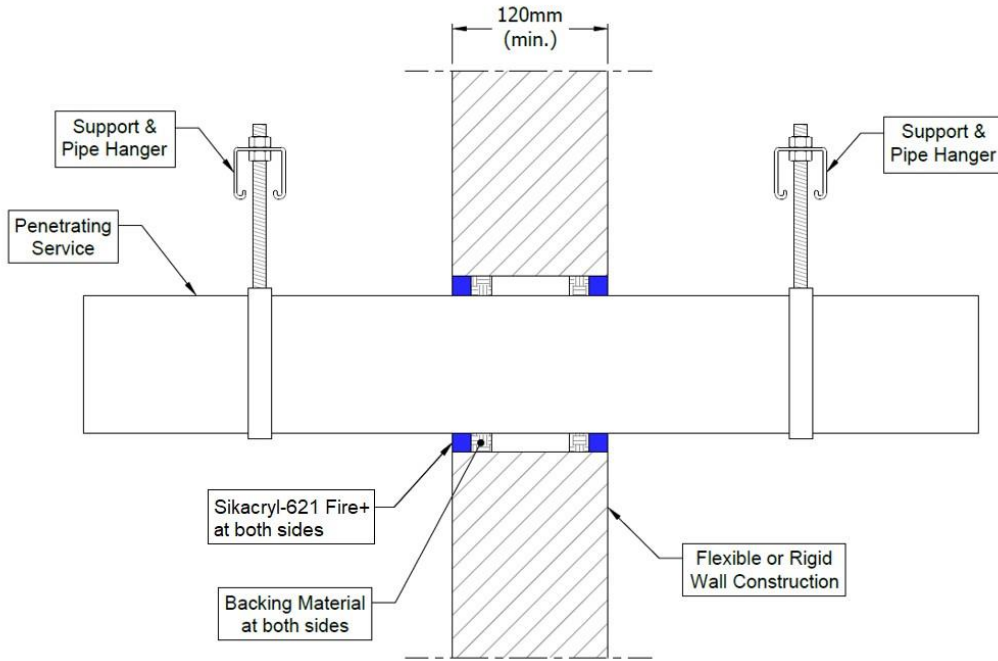


A.4 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 120 mm

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

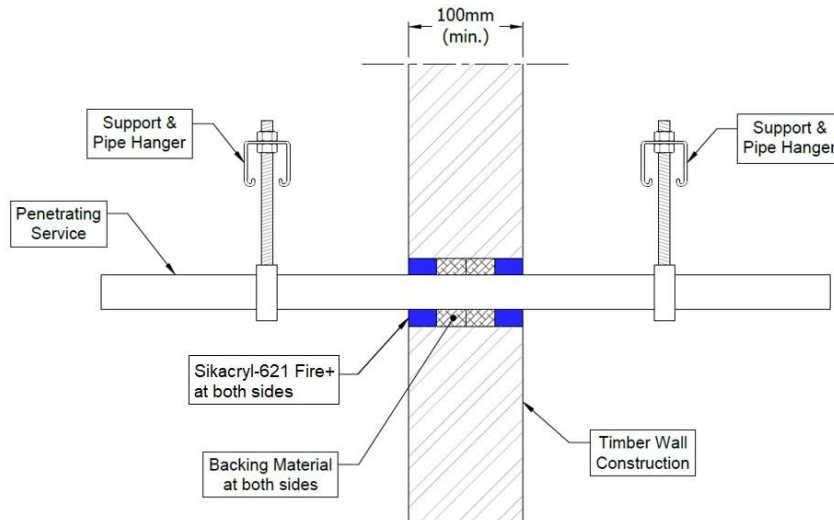
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

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

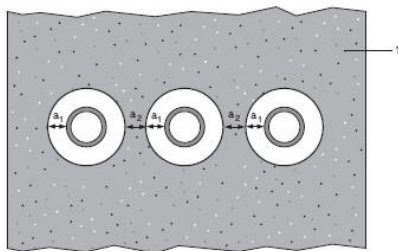
A.5.1 Double side penetration seal with cables

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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

131/179

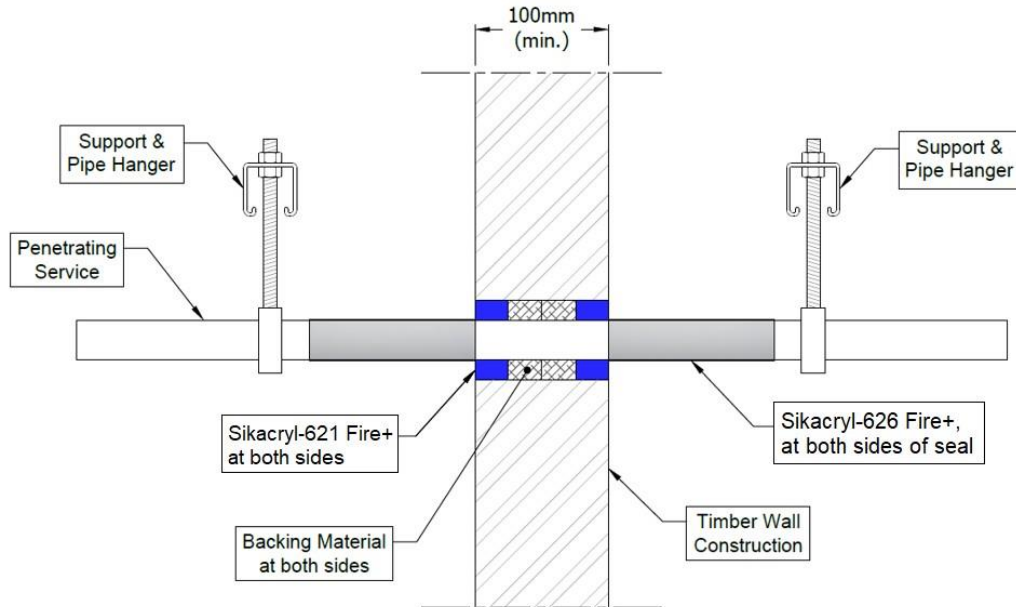
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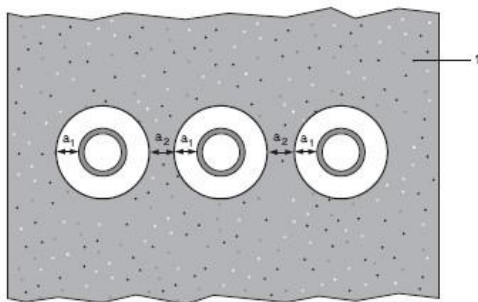
A.5.2 Double side penetration seal with cables and Sikacryl-626 Fire+

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

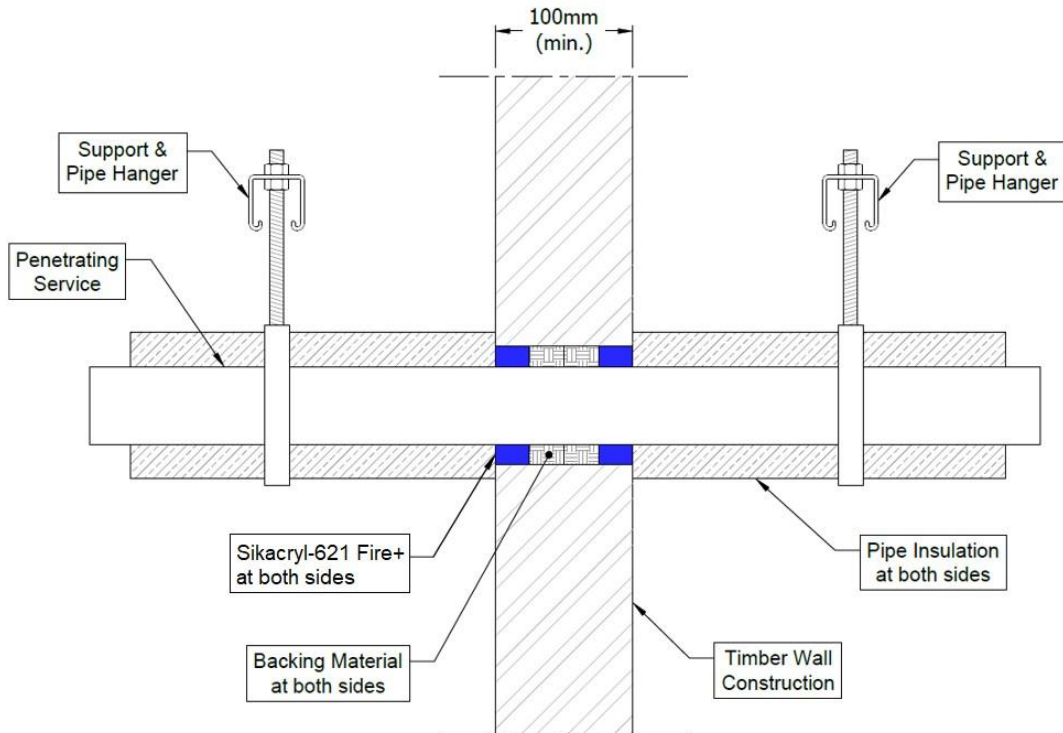
Services	Sealant depth	Backing	Maximum aperture	Insulation, minimum	Classification
None (blank)	25 mm	Stone wool 25 mm deep min. 33kg/m ³	Ø 180 mm	Sikacryl-626 Fire+, 260-micron DFT extending 150 mm from both sides of the seal	EI 120
Cables up to 21 mm Ø, single					EI 90
Cables up to 50 mm Ø, single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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

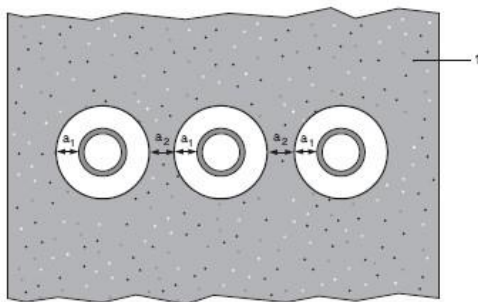
A.5.3 Double side penetration seal with metallic pipes

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

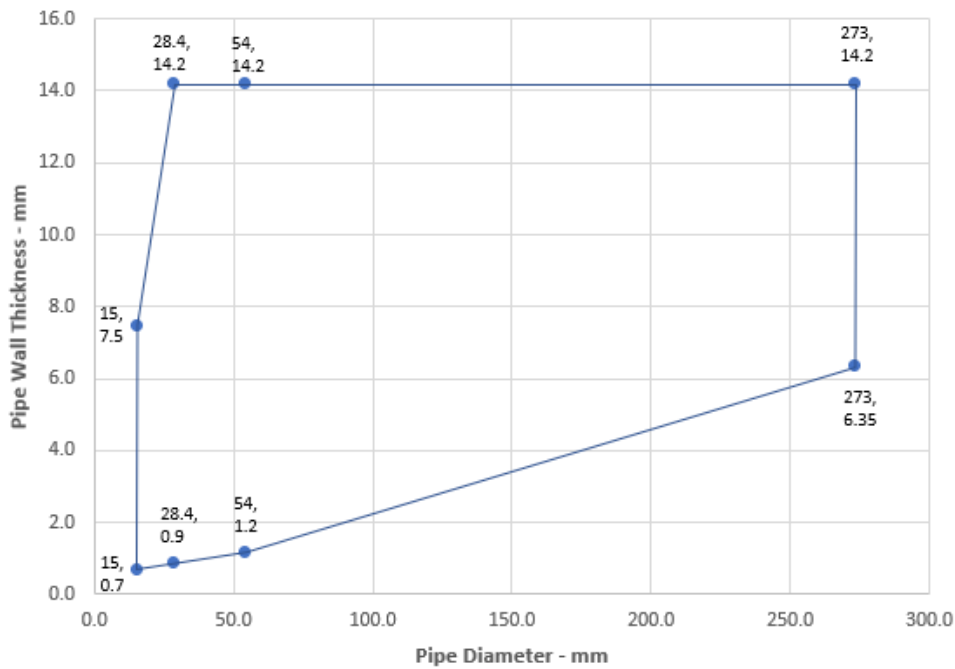
- 1 Supporting construction
- a1 Pipe / edge of seal separation (annular space)
- a2 Separation between penetration seals

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



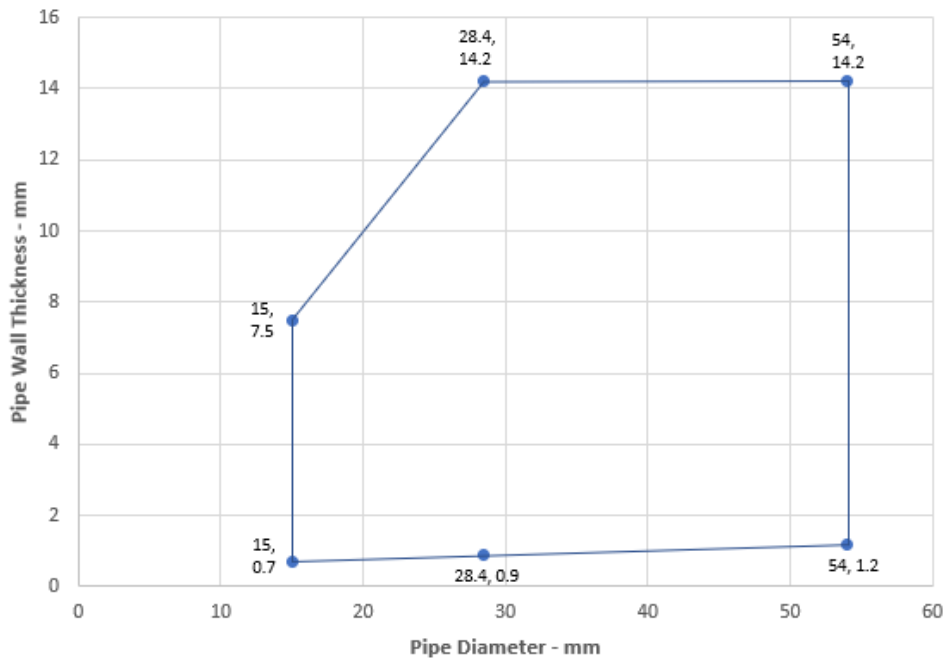
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01, ver. 1.1
 1549

134/179

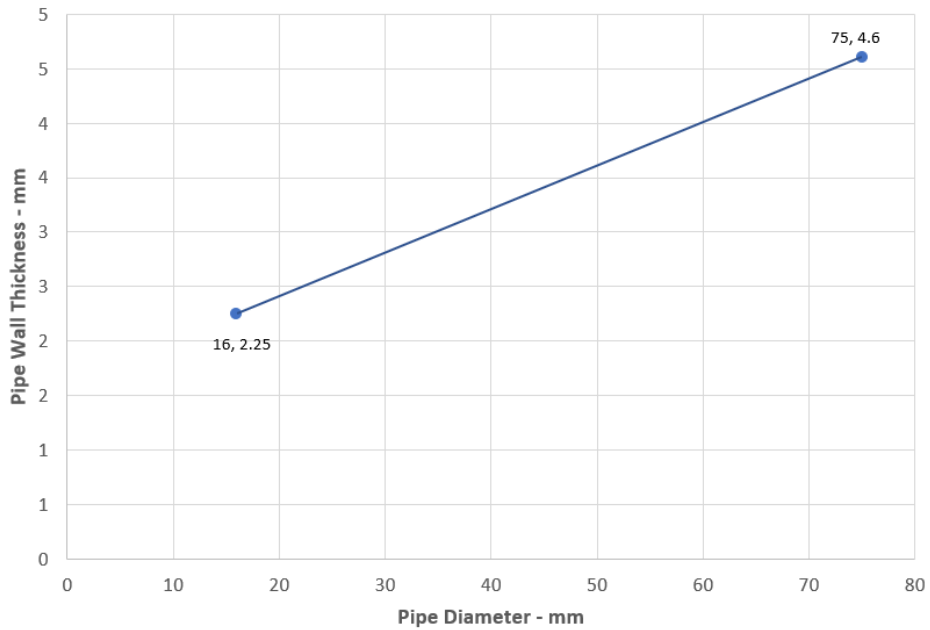
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Copper or Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



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



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

135/179

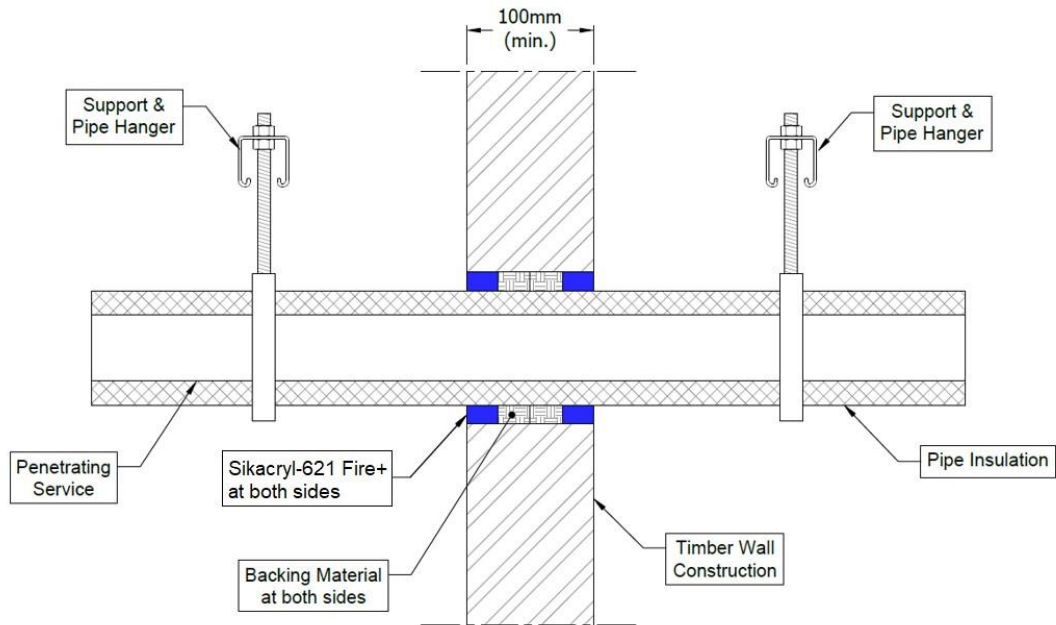
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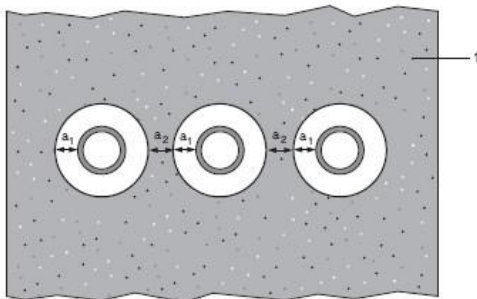
A.5.4 Double side penetration seal with metallic pipes

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

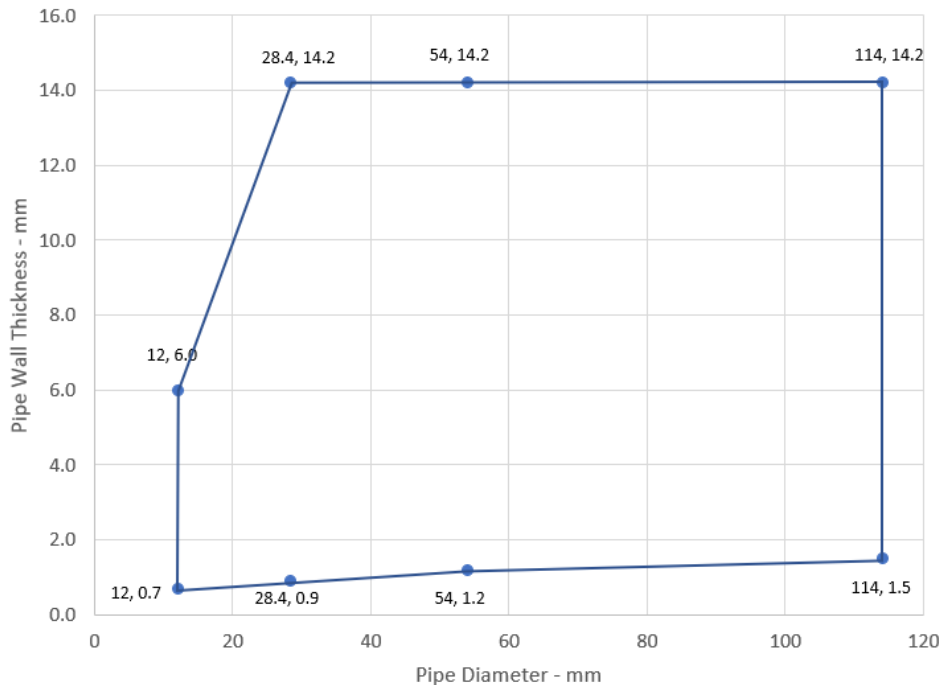
A.5.4.1

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*			10-25 mm Elastomeric insulation minimum class D-s3, d0	E 60 C/C, EI 30 C/C
Maximum 54 mm diameter /1.2-14.2 mm wall*				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*			10-25 mm Elastomeric insulation minimum class D-s3, d0	E 60 C/C, EI 45 C/C
Maximum 75 mm diameter/wall 4.6 mm wall*				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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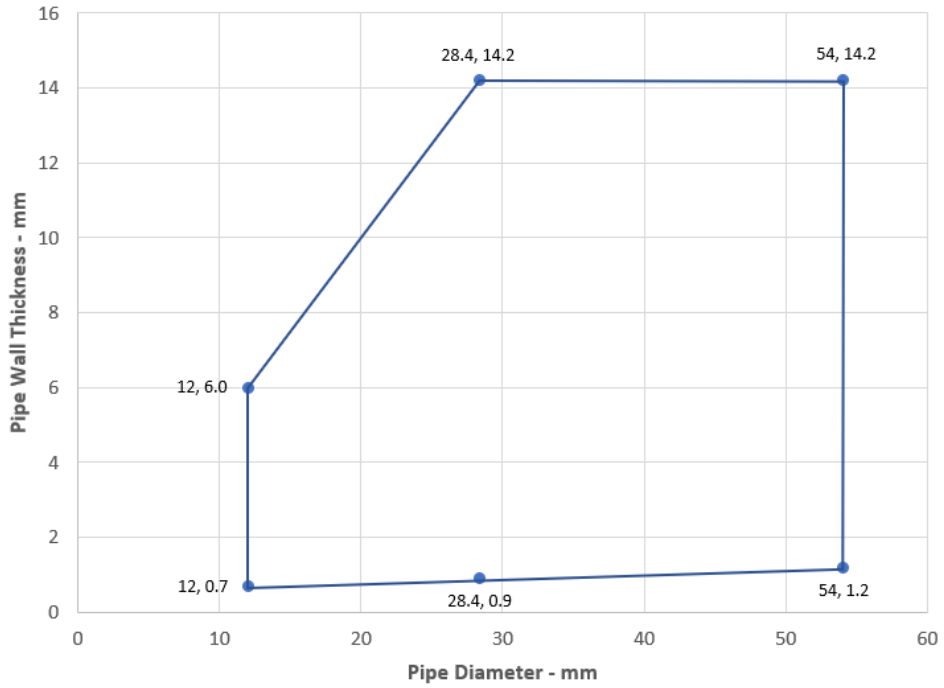
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

137/179

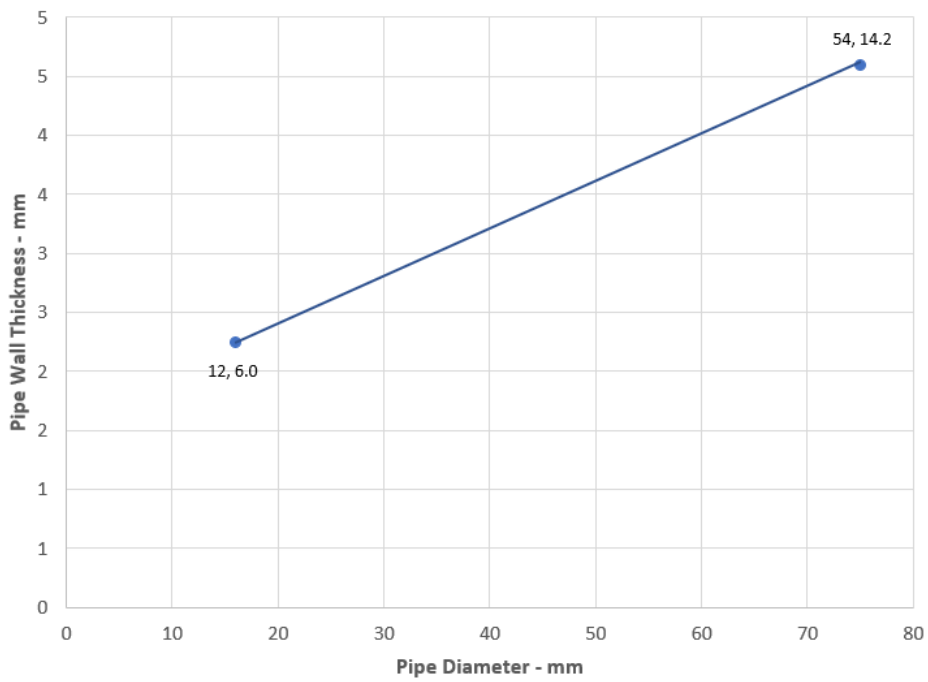
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Copper or Steel Pipes with Elastomeric Insulation - C/C



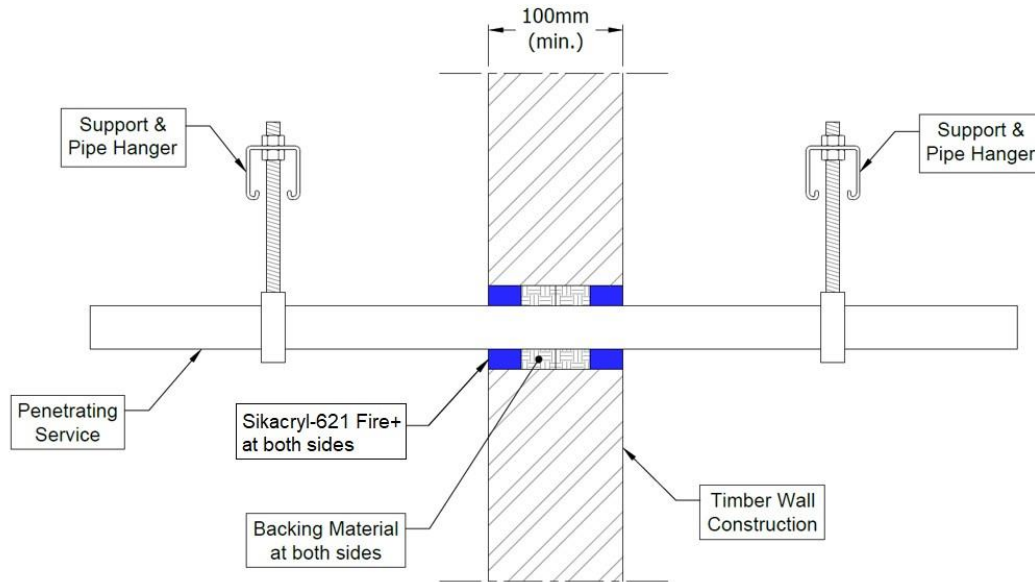
Alupex Pipes with Elastomeric Insulation - C/C



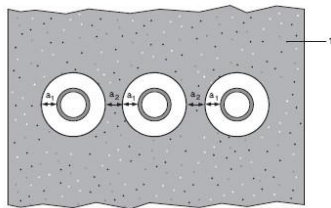
A.5.5 Double side penetration seal with plastic pipes and composite pipes

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

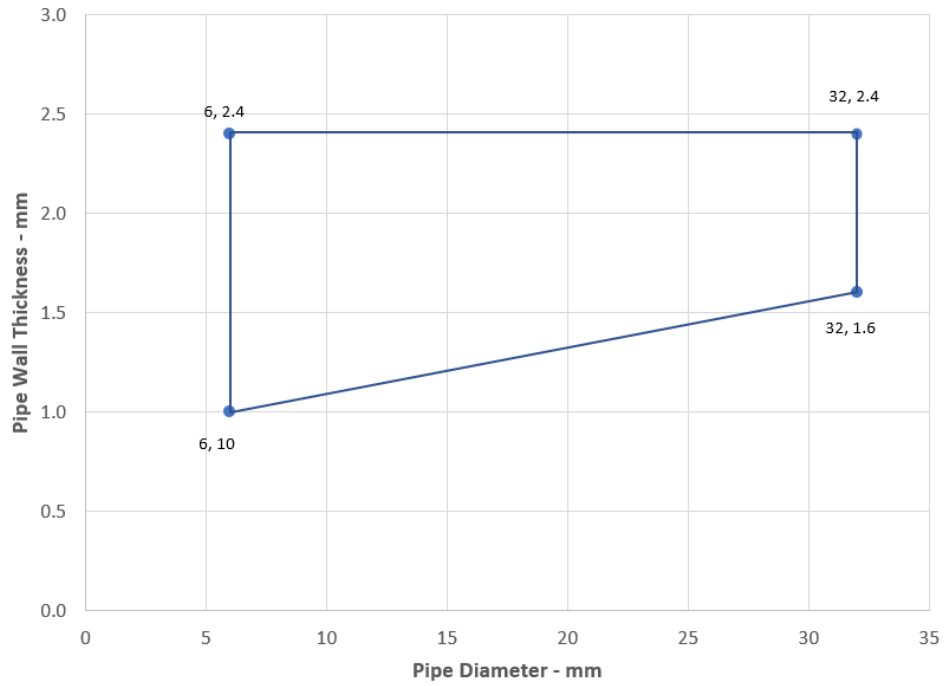
Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Maximum 32 mm diameter/1.0-2.4 mm wall*	25 mm	Stone wool 25 mm deep min. 33kg/m ³	EI 90 U/C
PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according 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

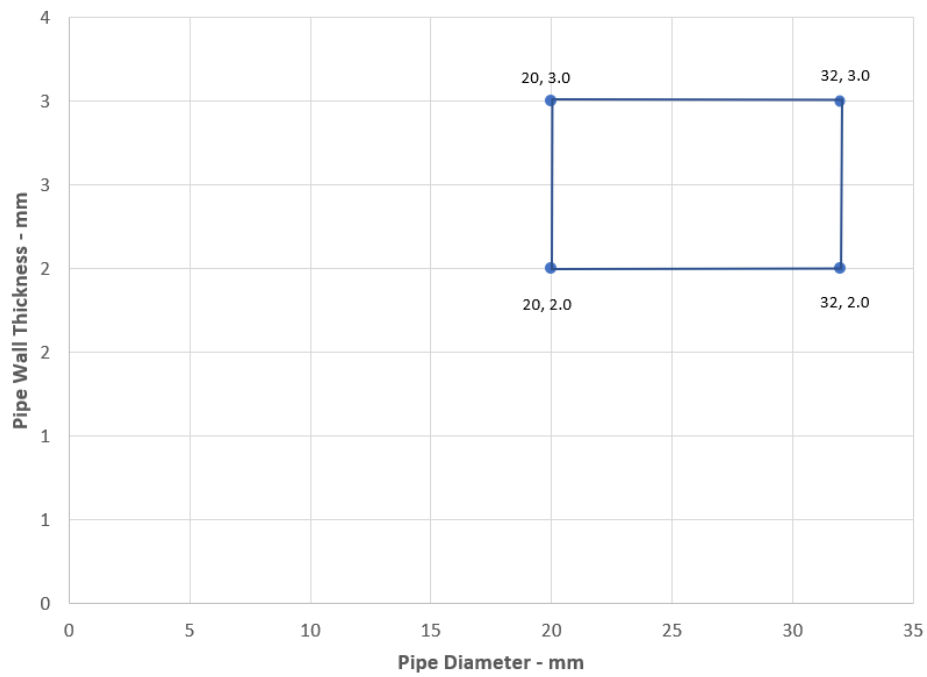
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

PVC-U Pipes EI 90 - U/C



PE Pipes EI 90 - U/C



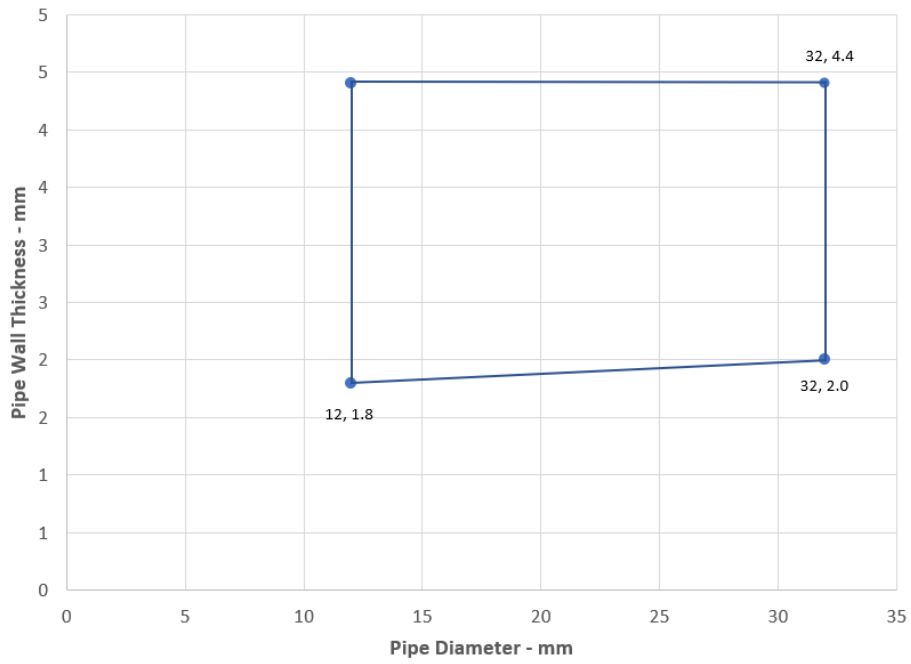
Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

140/179

BUILDING TRUST



PP Pipes EI 90 - U/C



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

141/179

BUILDING TRUST

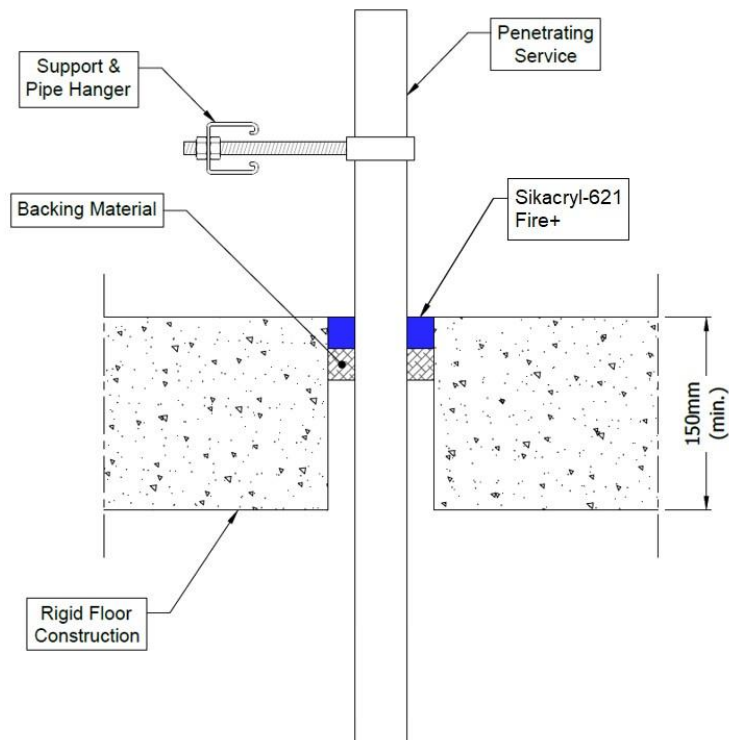
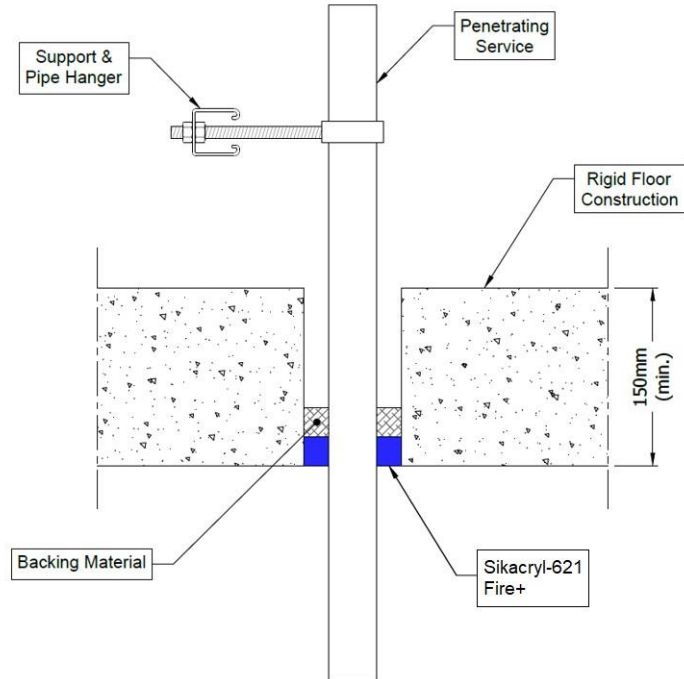


A.6 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

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:



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

142/179

BUILDING TRUST



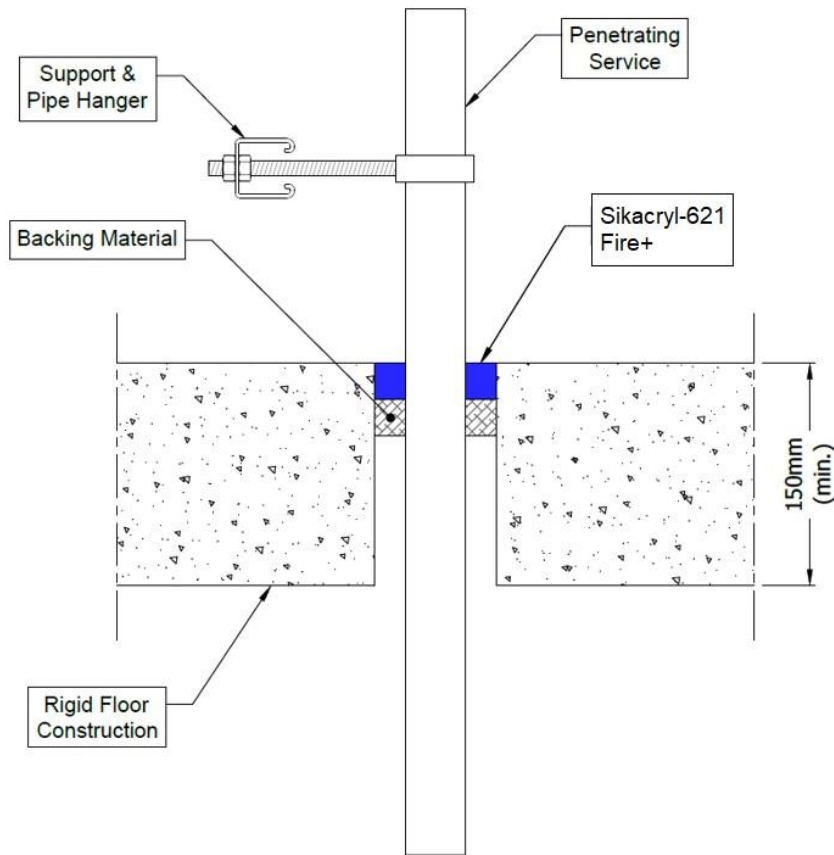
A.6.1.1

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

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

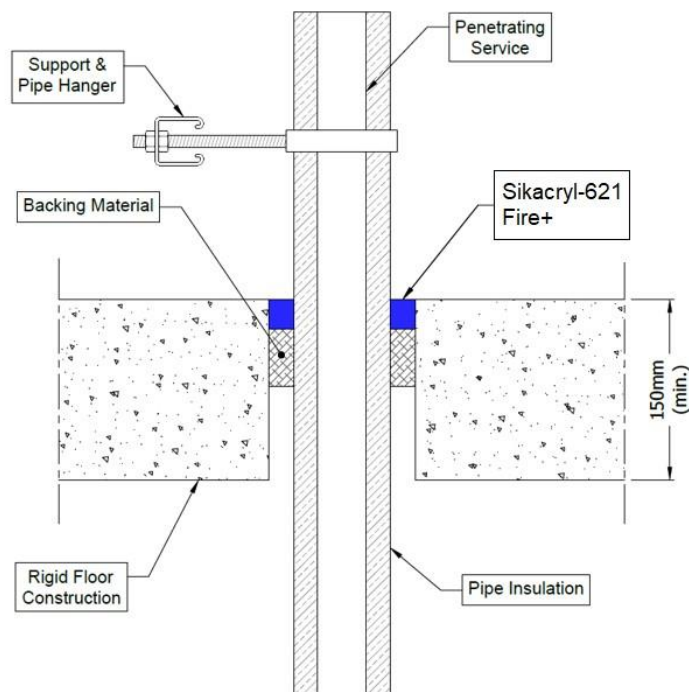
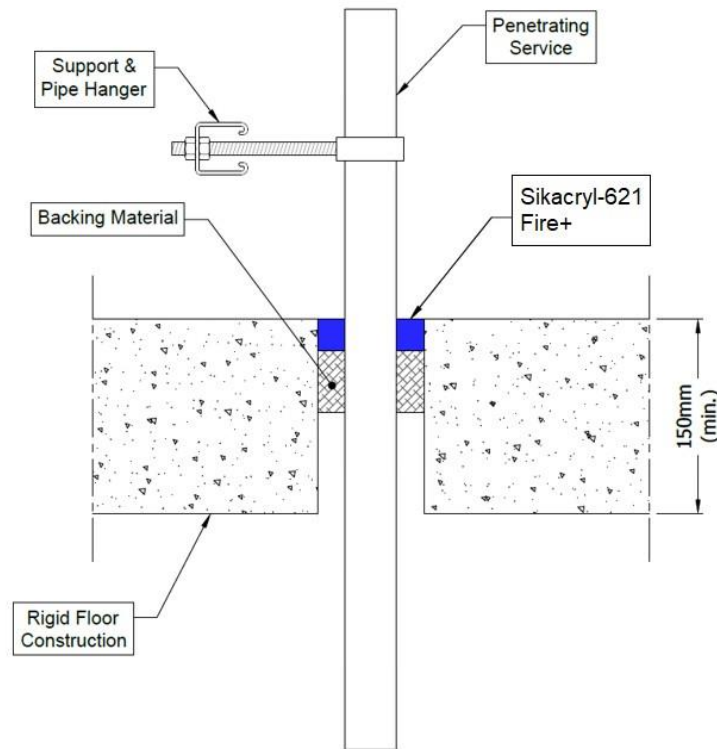
Services	Sealant depth	Backing (minimum)	Insulation	Classification
Blank seals	15 mm	20 mm Stone wool 35 kg/m ³	None	E 90, EI 60
	25 mm	25 mm Stone wool 35 kg/m ³		EI 120
48 mm AES Fibre ≥ 128kg/m ³		EI 240		
		E 120, EI 90		
Electric cables up to 21 mm diameter, single.	25 mm	48 mm AES Fibre ≥ 128kg/m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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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:



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

145/179

BUILDING TRUST

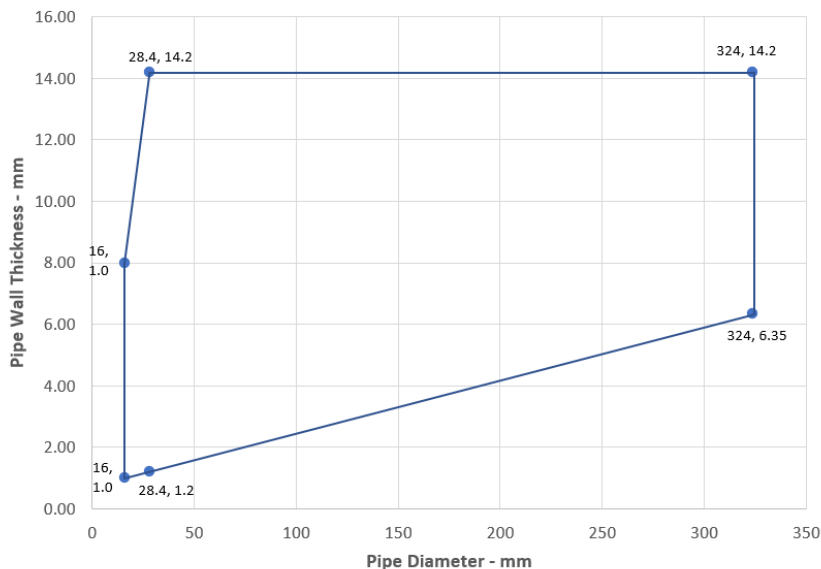


A.6.3.1

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/m³ 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/m³ 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/m³ 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

Mild or Stainless Steel - C/U



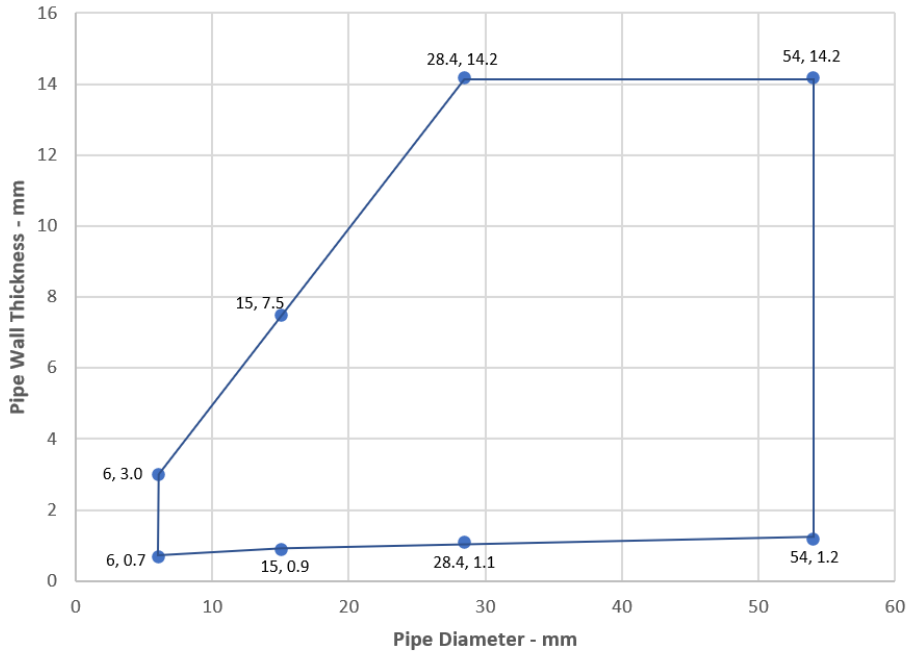
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

146/179

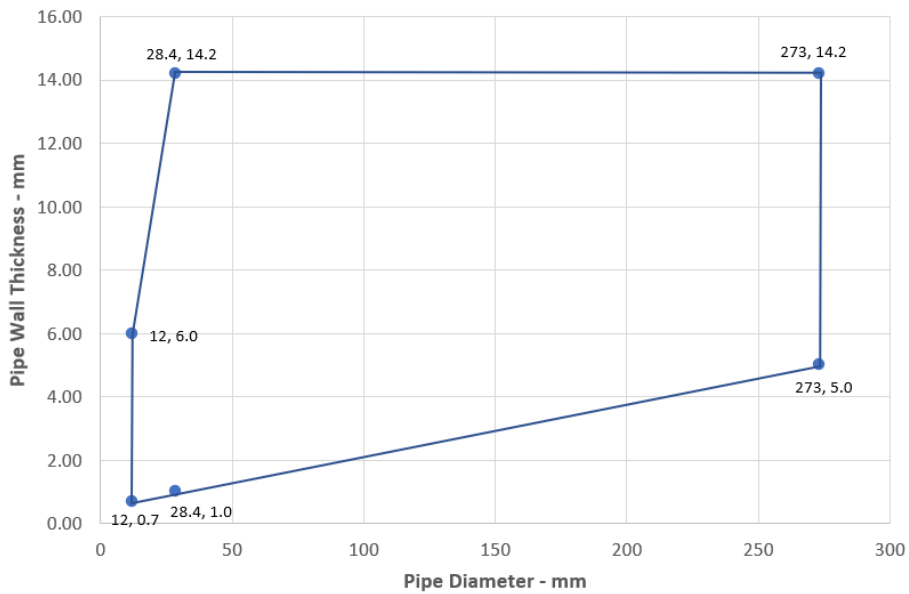
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Copper or Stainless Steel Pipes - C/C



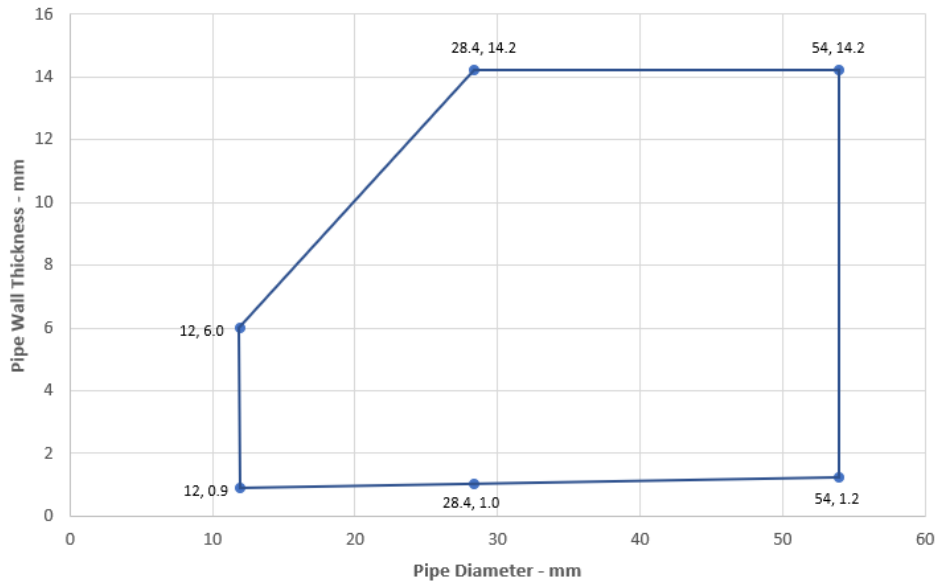
Mild or Stainless Steel Pipes with Stone or Glass Wool Insulation - C/C



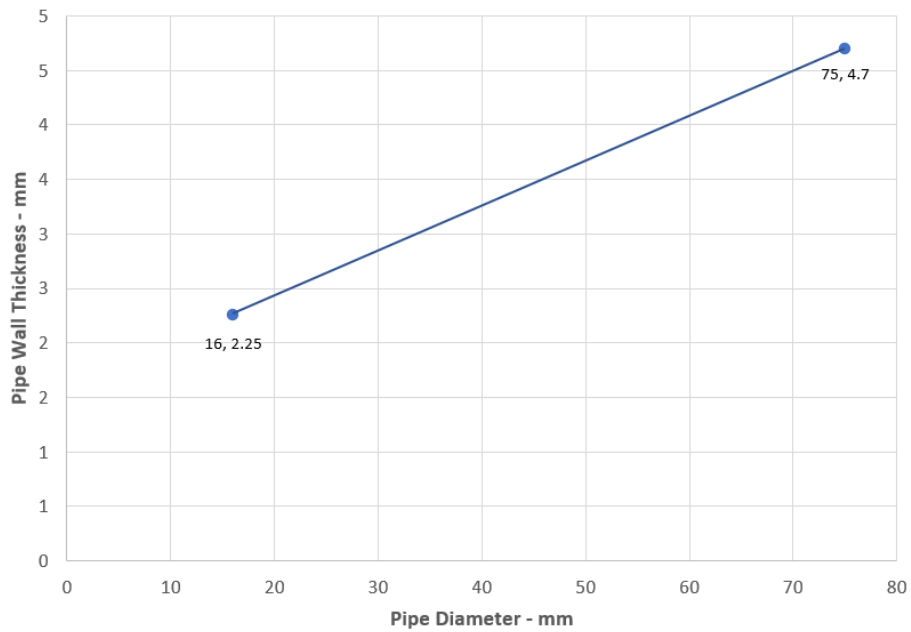
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



**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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

148/179

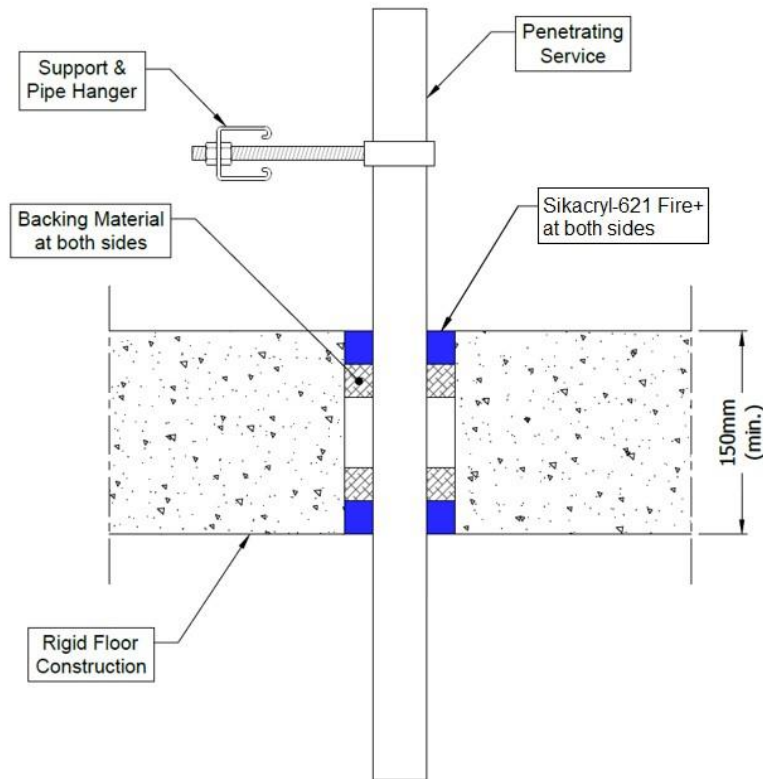
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A.6.4 Double side penetration seal with pipes

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

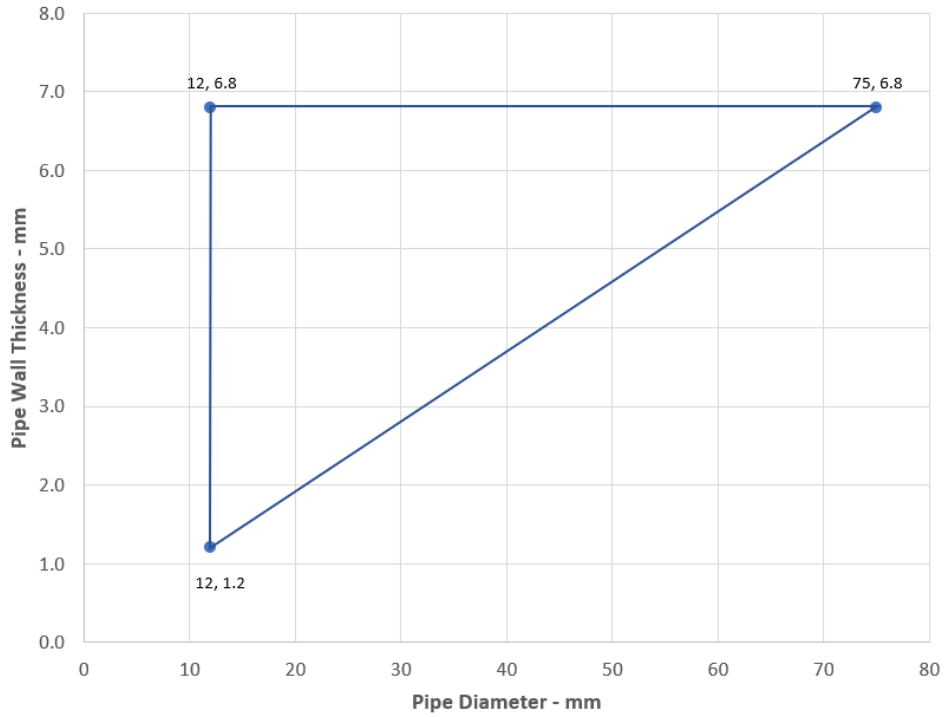
Services	Sealant depth	Backing	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1			
Up to 50 mm \varnothing /1.6-3.7 mm wall	25 mm	25 mm Stone wool	EI 240 U/C
Up to 40 mm \varnothing /1.6-3.7 mm wall, with bundle of cables up to 21 mm diameter			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

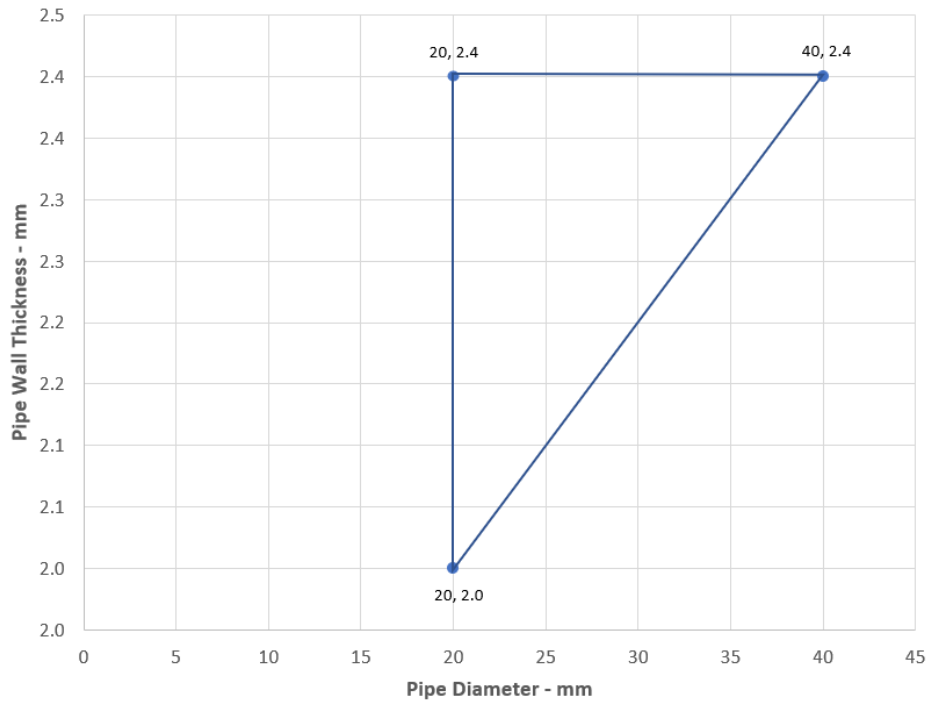
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

PP Pipes - EI 190 U/C



PE Pipes - U/C



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

150/179

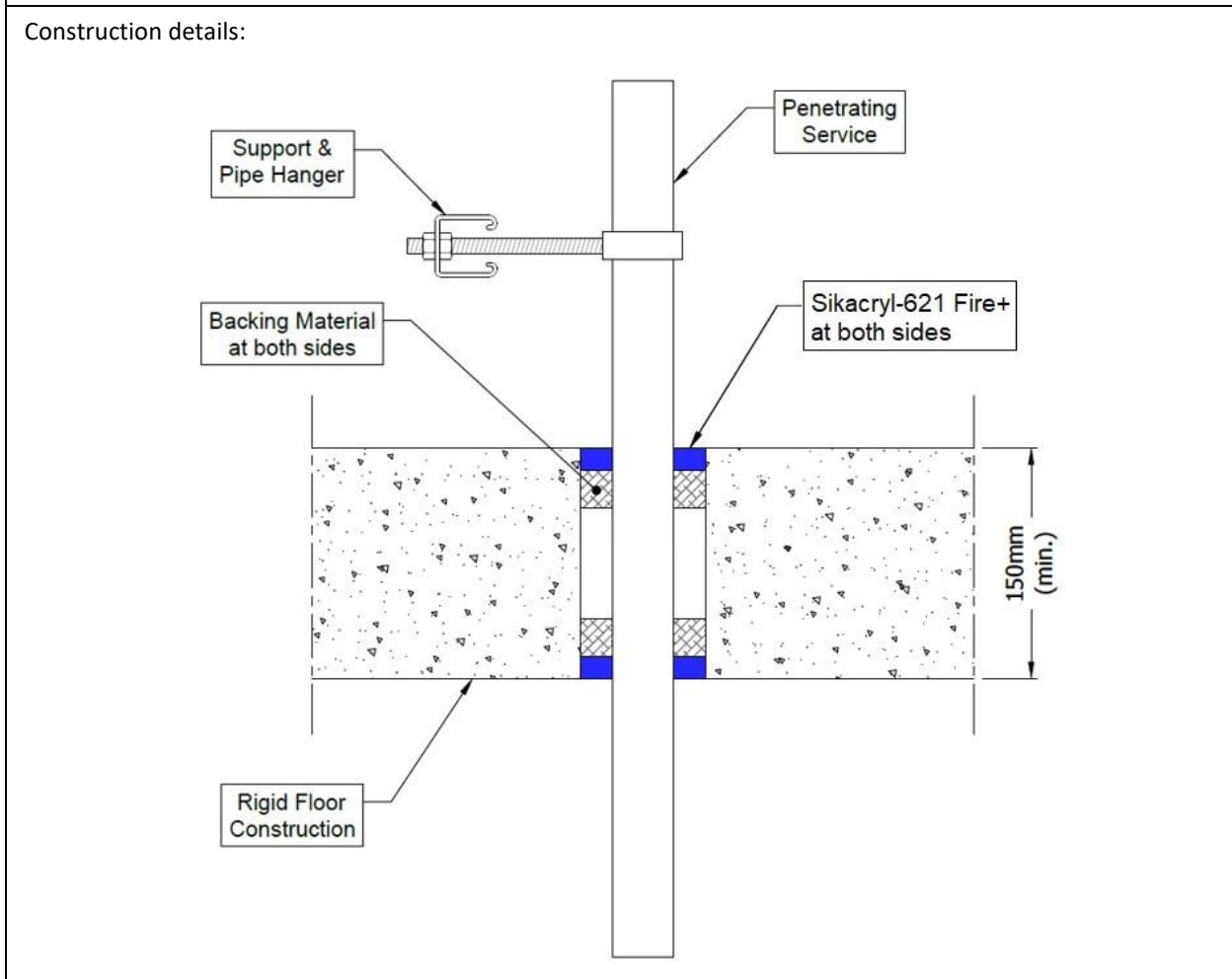
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A.6.5 Double side penetration seal with cables

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:



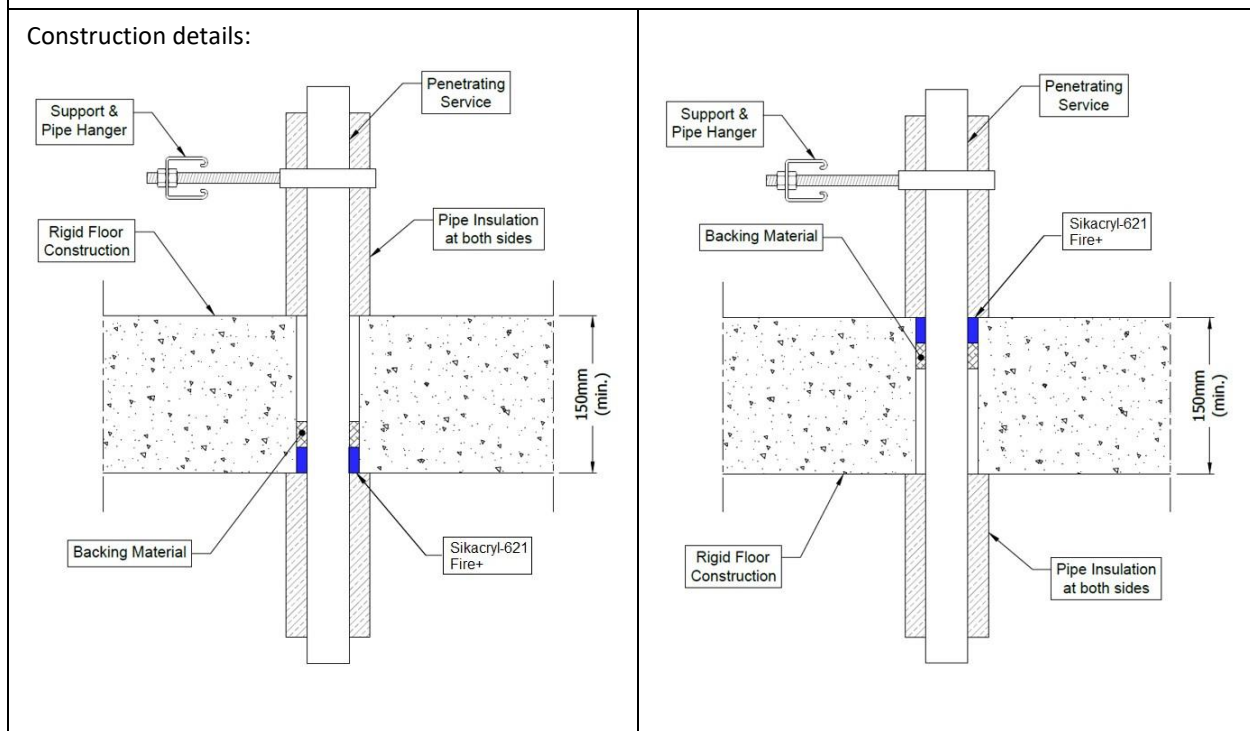
A.6.5.1

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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 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/m ³	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	20 mm Stone wool insulation 80 kg/m ³	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		15 mm	E 90 C/U, EI 60 C/U
Copper or steel pipe up to 12 mm diameter/0.9-5 mm wall			25 mm	EI 120 C/U
Copper or steel pipe up to 54 mm diameter/0.9-14.2 mm wall				

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
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/m ³	15 mm	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 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/m ³	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/m ³		
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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

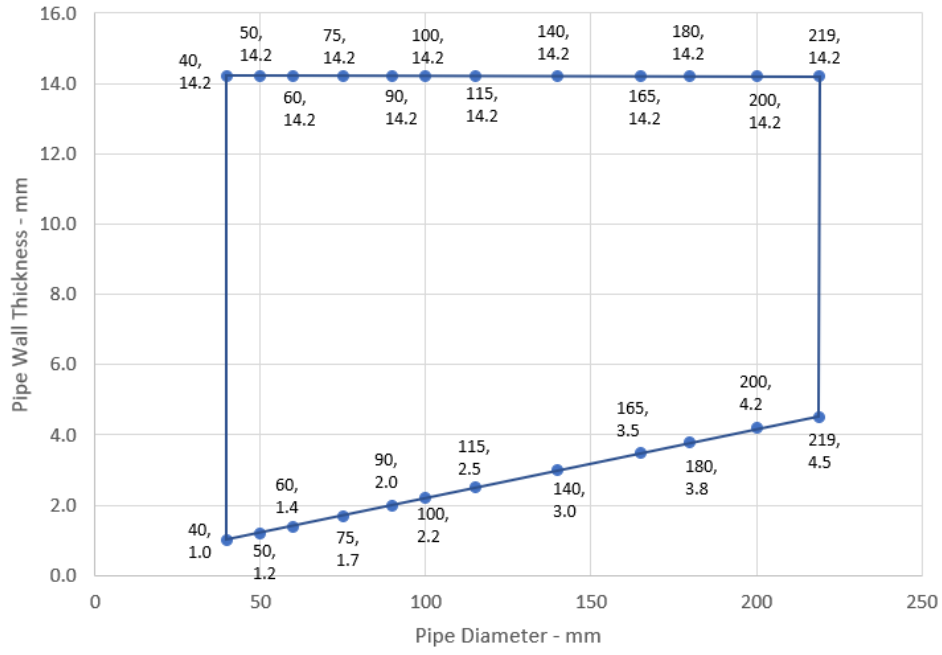
Services	Max. Seal Size	Insulation (minimum)	Sealant Depth	Classification
Mild or stainless steel pipe				
40 mm diameter/1-14.2 mm wall	300 x 300 mm	20 mm Stone wool insulation 80 kg/m ³	15 mm	E 90 C/U, EI 60 C/U
40 mm diameter/1-14.2 mm wall*		30 mm Stone wool insulation 80 kg/m ³		
50 mm diameter/1.2-14.2 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*				
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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

Steel Pipes with Stone Wool Insulation - C/U



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

155/179

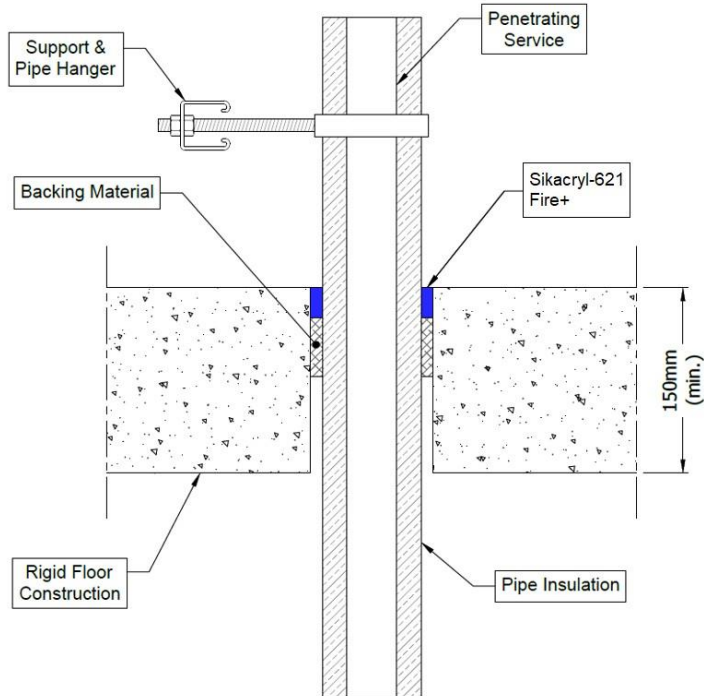
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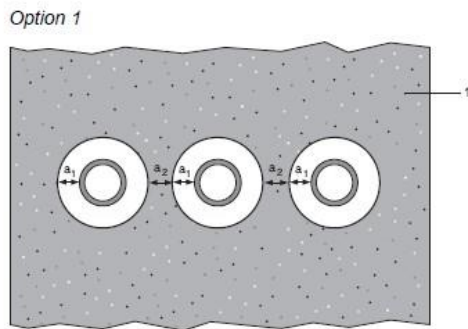
A.6.7 Single side penetration seal with metallic pipes

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

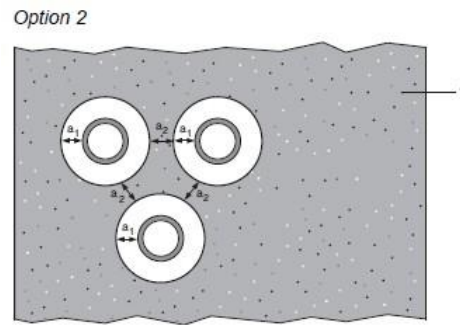
Construction details:



Configuration 1:



Configuration 2:



Key

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

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01, ver. 1.1
 1549

156/179

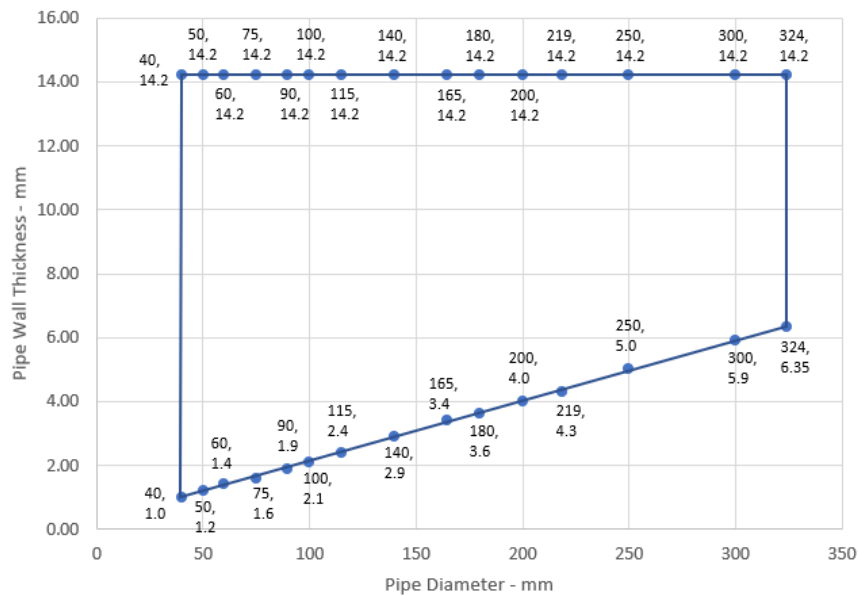
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A.6.7.1 Single side penetration seal with pipes

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



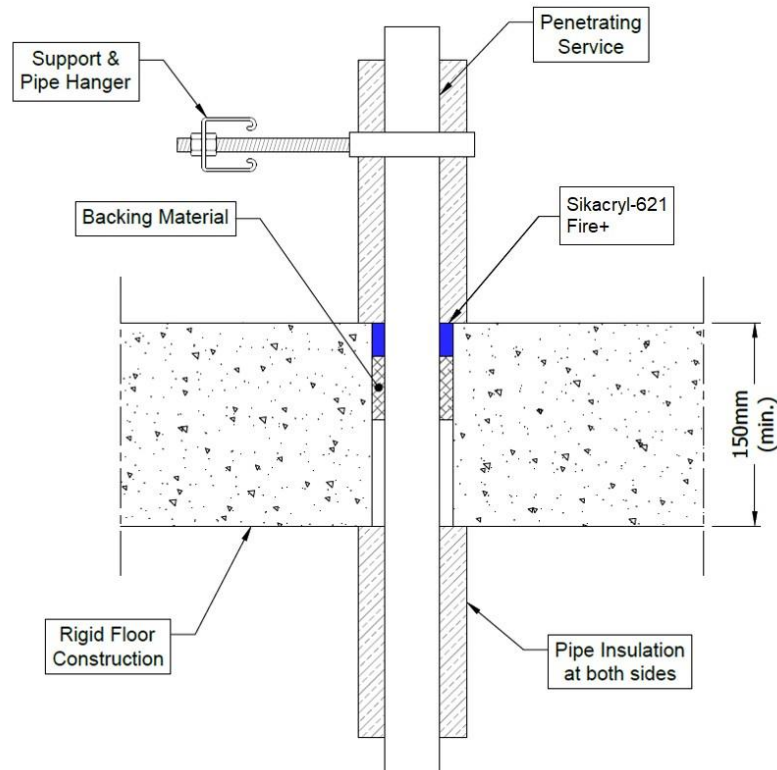
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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

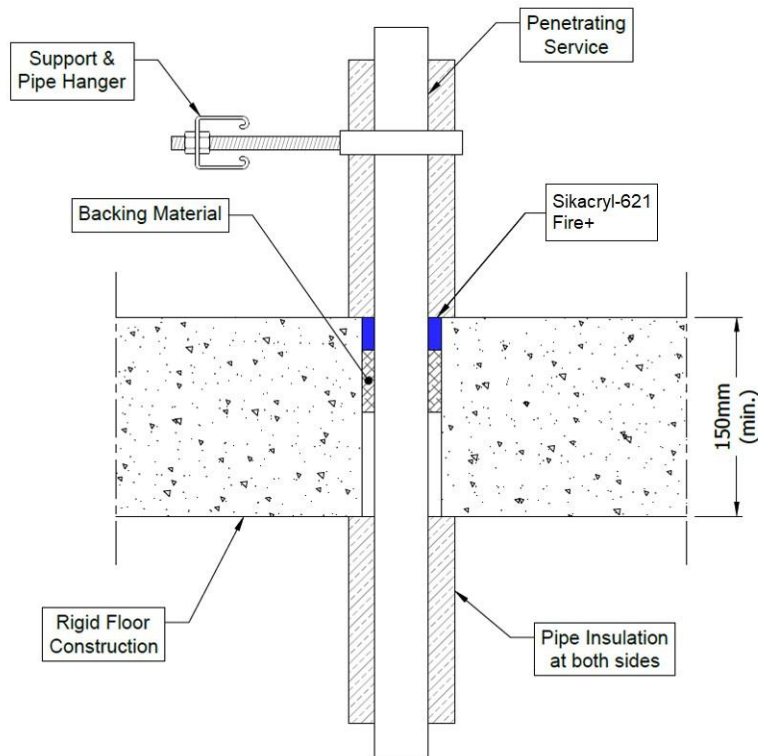
Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
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	25 mm	48 mm AES Fibre $\geq 128\text{kg/m}^3$	20 mm stonewool 80kg/m^3 , 500 mm length from both sides of the seal	EI 240 C/C
16 mm diameter/2.25 mm wall				
20 mm diameter/2.5 mm wall				
26 mm diameter/3 mm wall				
32 mm diameter/3 mm wall				
40 mm diameter/3.5 mm wall				
50 mm diameter/4 mm wall				
63 mm diameter/4.5 mm wall				
75 mm diameter/4.7 mm wall				

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

159/179

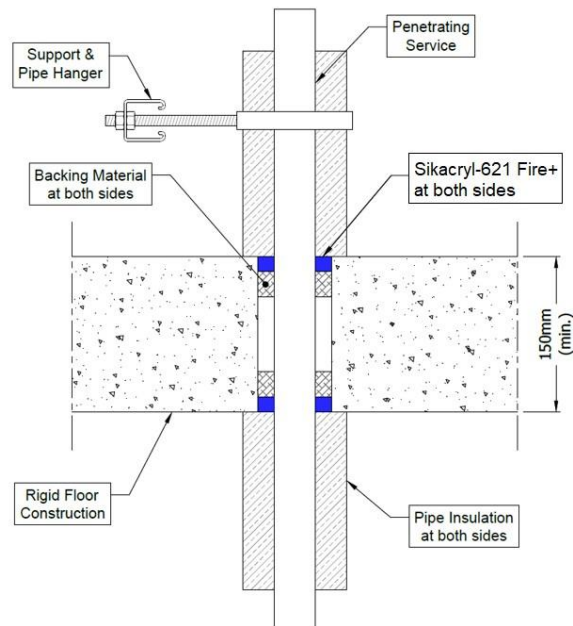
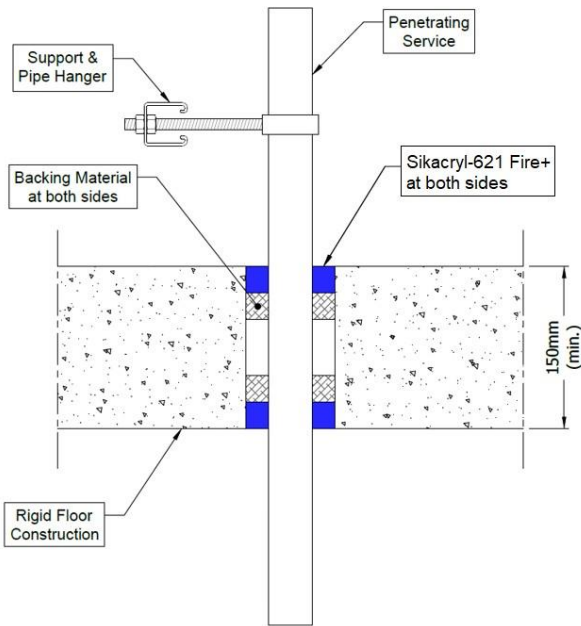
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A.6.10 Double side penetration seal with metallic pipes

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:

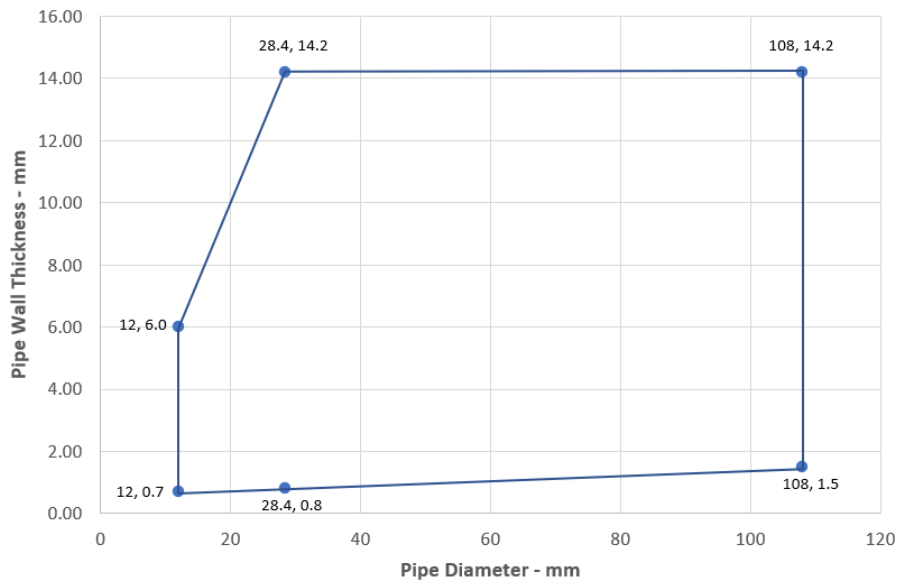


A.6.10.1

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

Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

161/179

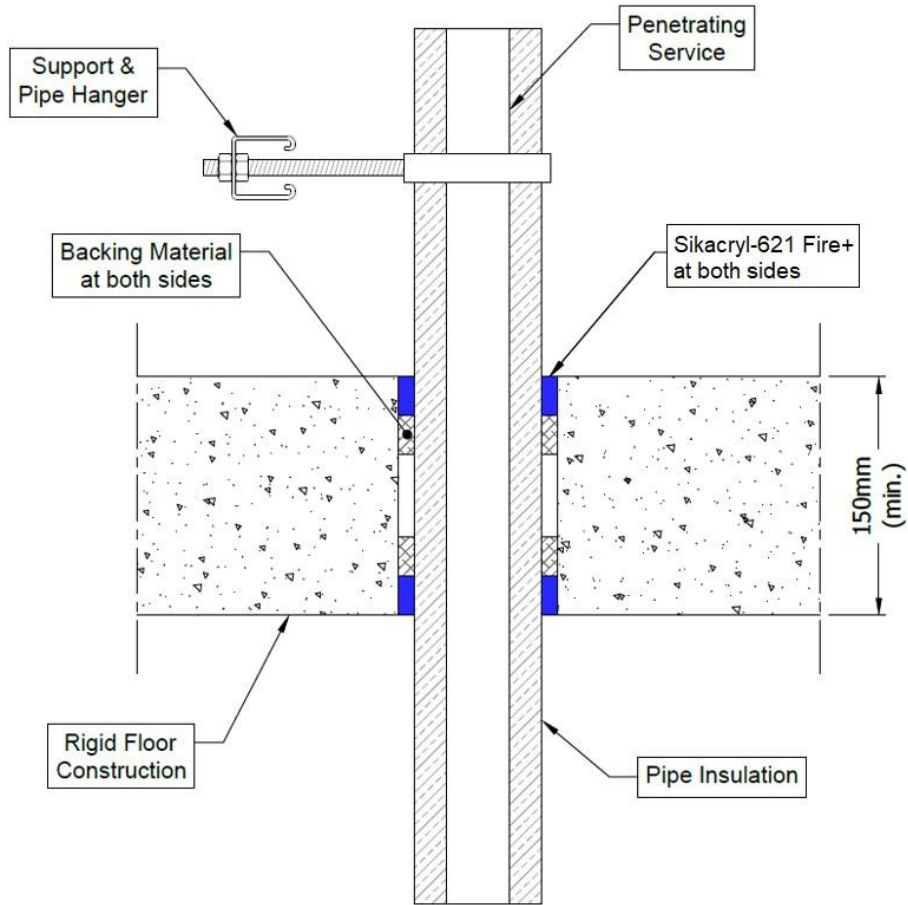
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A.6.11 Double side penetration seal with metallic pipes

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:



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

162/179

BUILDING TRUST

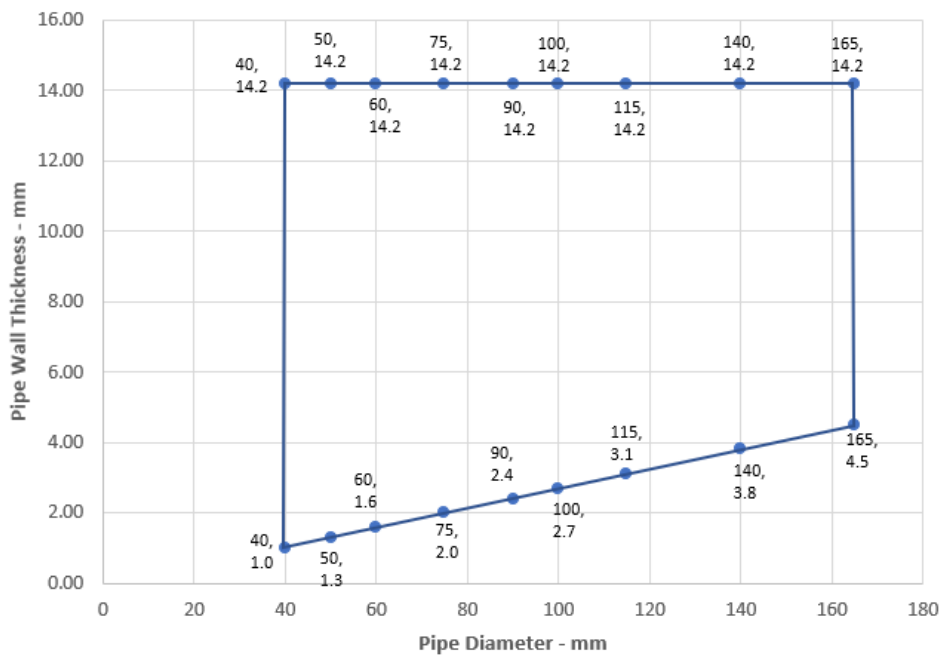


A.6.11.1

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/m ³	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/m ³		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/m ³	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



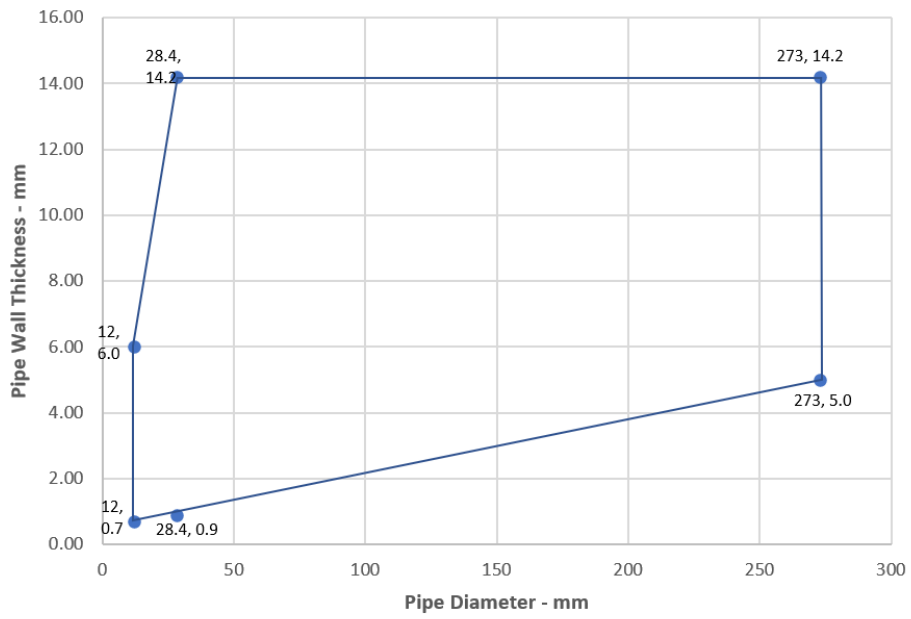
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

163/179

BUILDING TRUST



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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

164/179

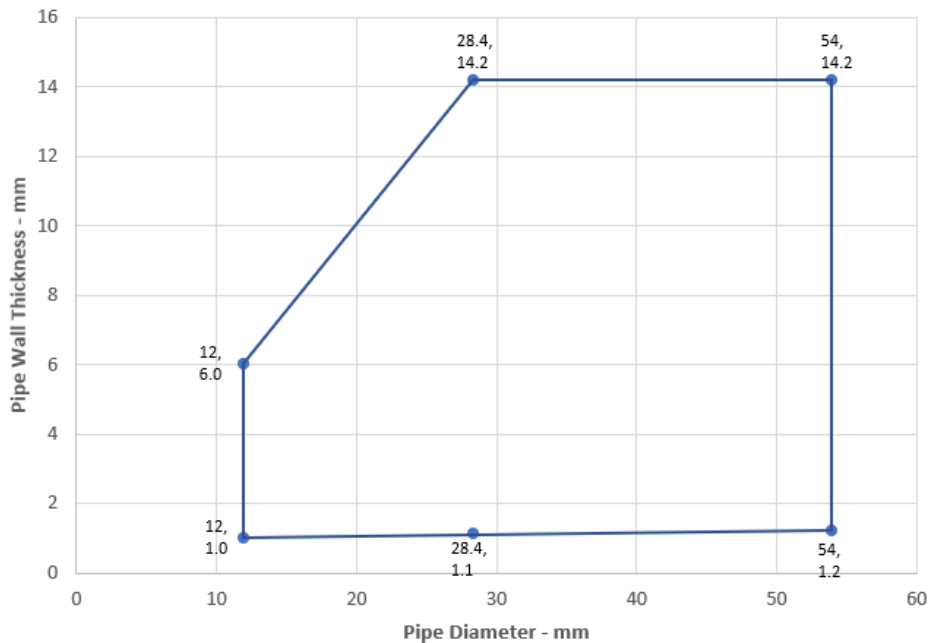
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Services	Sealant depth	Backing (minimum)	Insulation	Classification
Copper or steel pipe				
12 mm diameter/1-6 mm wall	25 mm	25 mm AES Fibre \geq 128kg/m ³	9 mm Elastomeric insulation minimum class B-s3,d0, phenolic foam insulation or PU foam insulation	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



Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

165/179

BUILDING TRUST



Services	Sealant depth	Backing (minimum)	Insulation	Classification
Alupex Composite Pipe				
16 mm diameter/2.25 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	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	
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				

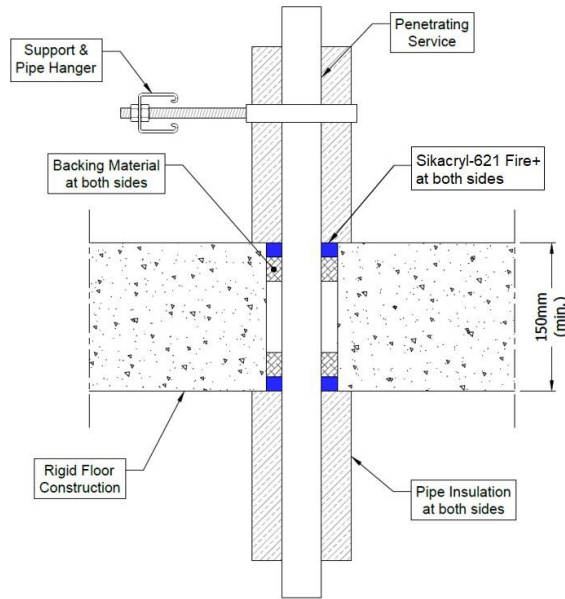
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Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

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

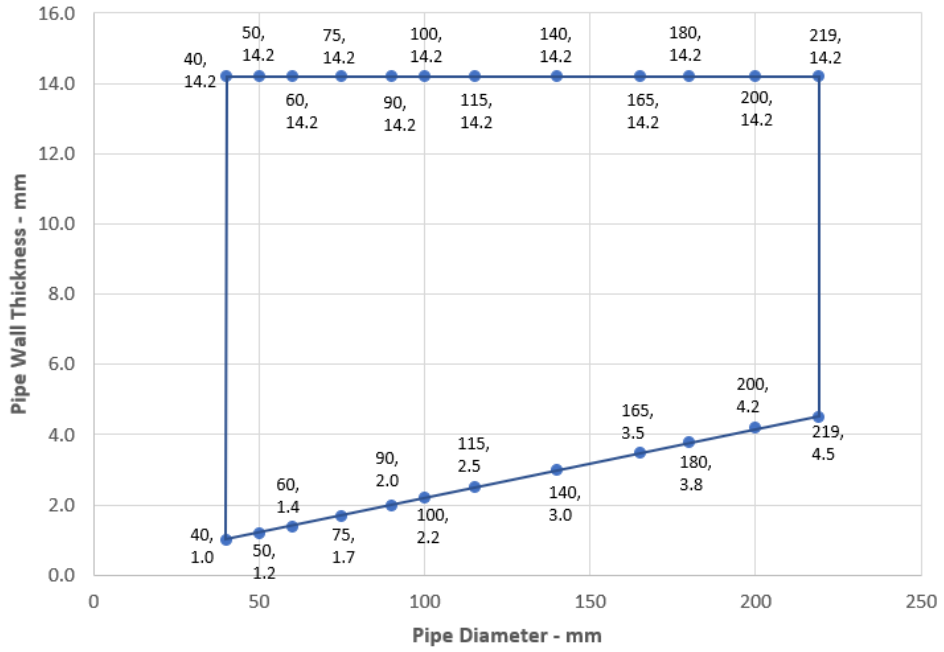
Services	Maximum seal size	Insulation (minimum)	Classification
Mild or stainless steel pipe			
40 mm diameter/1-14.2 mm wall		20 mm Stone wool insulation 80 kg/m ³	EI 240 C/U
40 mm diameter/1-14.2 mm wall*			
50 mm diameter/1.2-14.2 mm wall*			
60 mm diameter/1.4-14.2 mm wall*			
75 mm diameter/1.7-14.2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

Leistungserklärung

Sikacryl-621 Fire+
74951760
2025.01, ver. 1.1
1549

Steel Pipes with Stone Wool Insulation - C/U



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

168/179

BUILDING TRUST

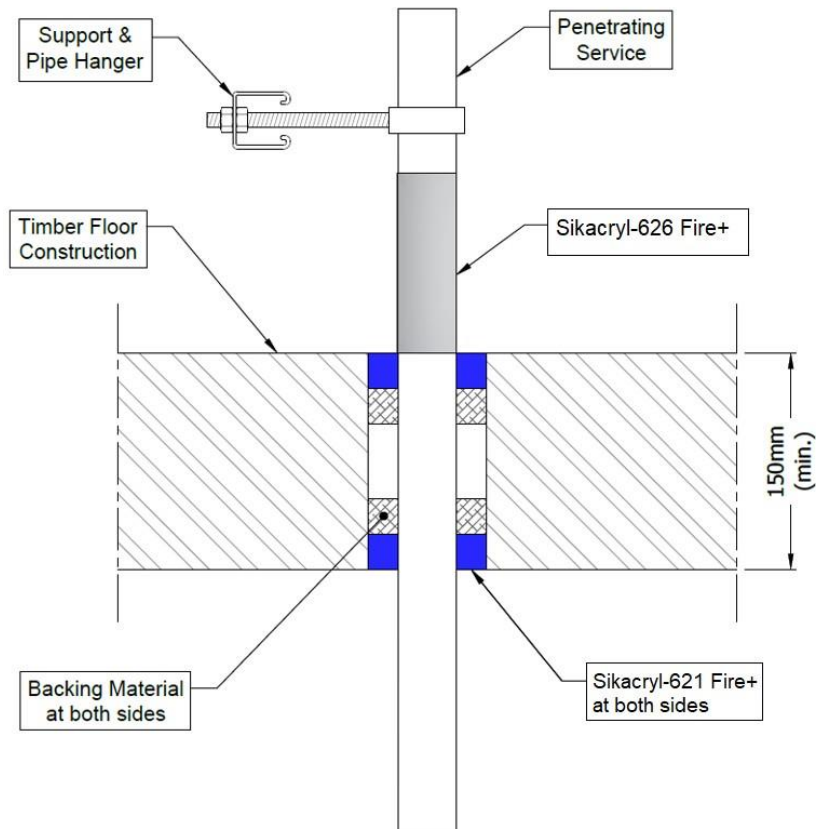


A.7. Timber floor constructions with floor thickness of minimum 150 mm

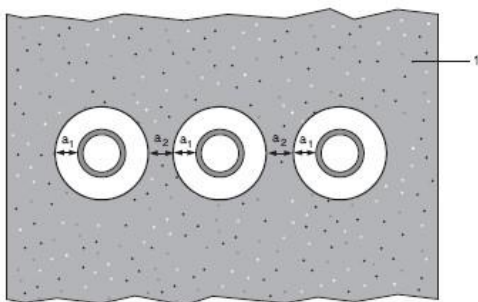
A.7.1 Double sided penetration seal with cables

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				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	

Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

170/179

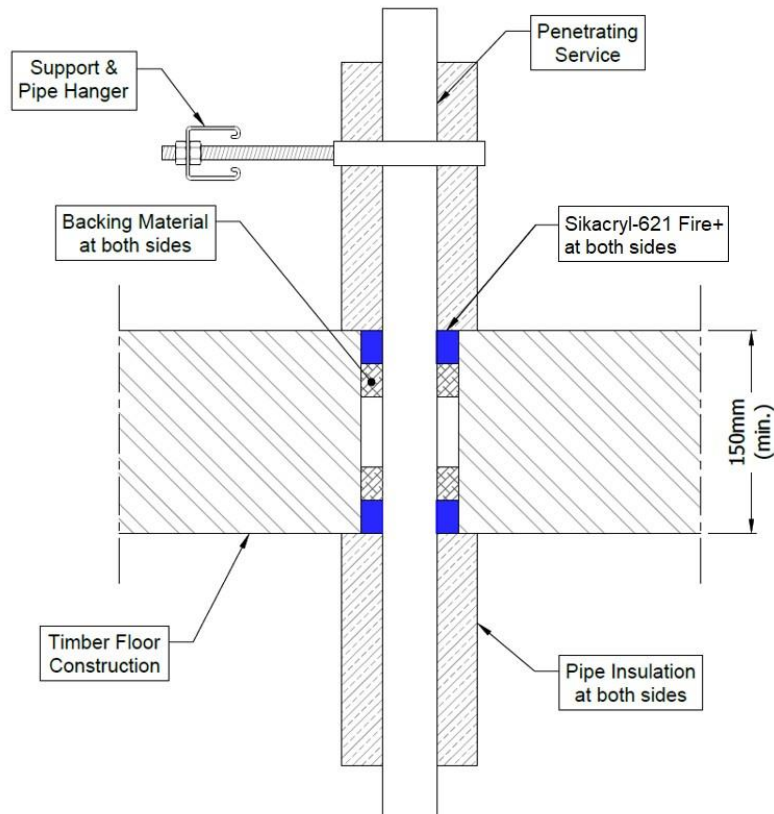
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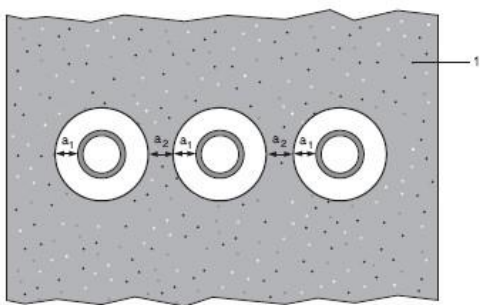
A.7.2 Double side penetration seal with metallic pipes

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

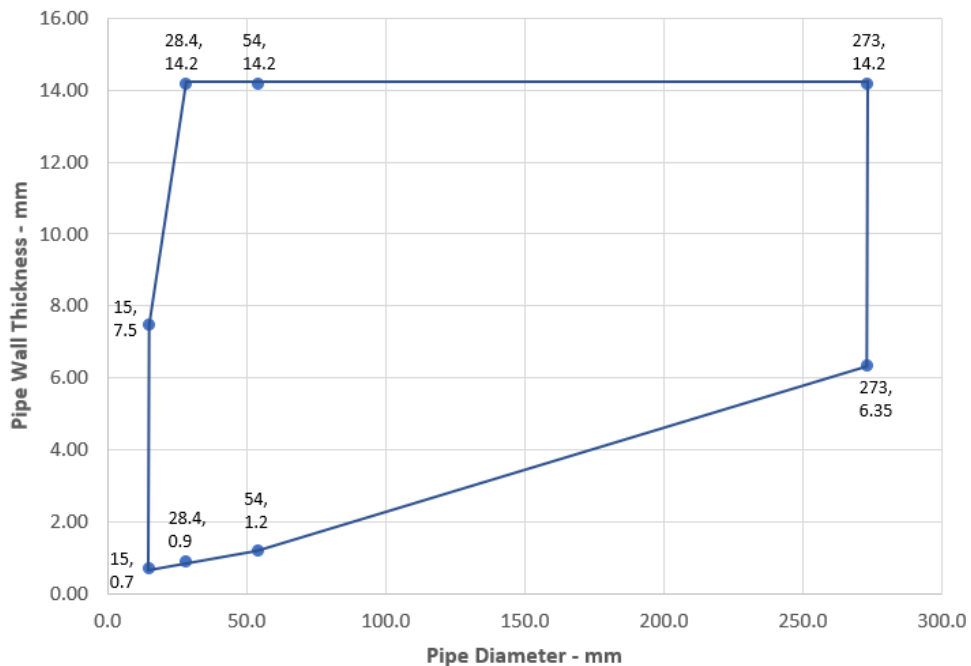
- 1 Supporting construction
- a1 Pipe / edge of seal separation (annular space)
- a2 Separation between penetration seals

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/m ³	25 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 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/m ³	20 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 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/m ³	20 mm glass wool or stone, mineral wool min. 75 kg/m ³ , 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/m ³ , 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

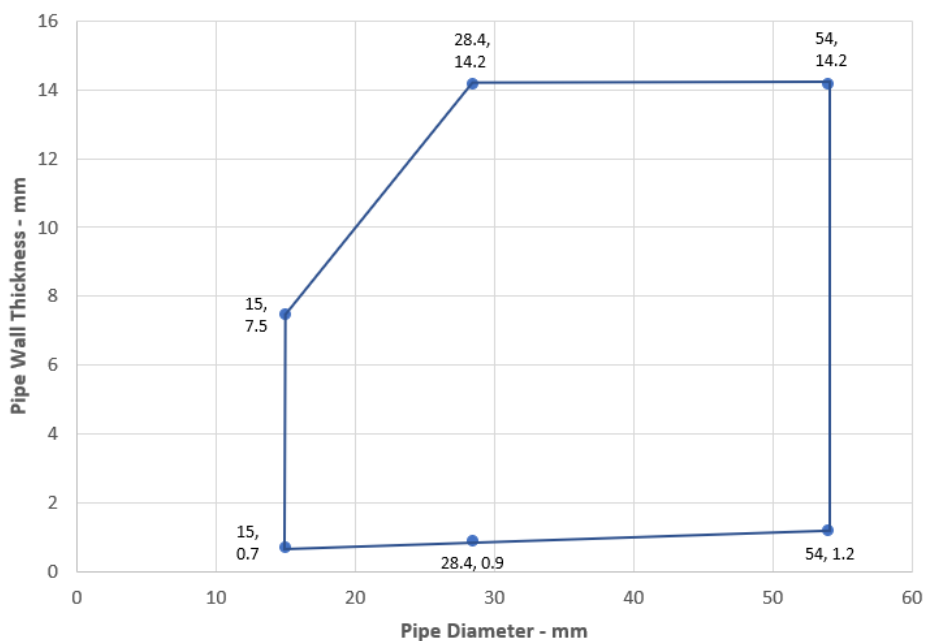
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



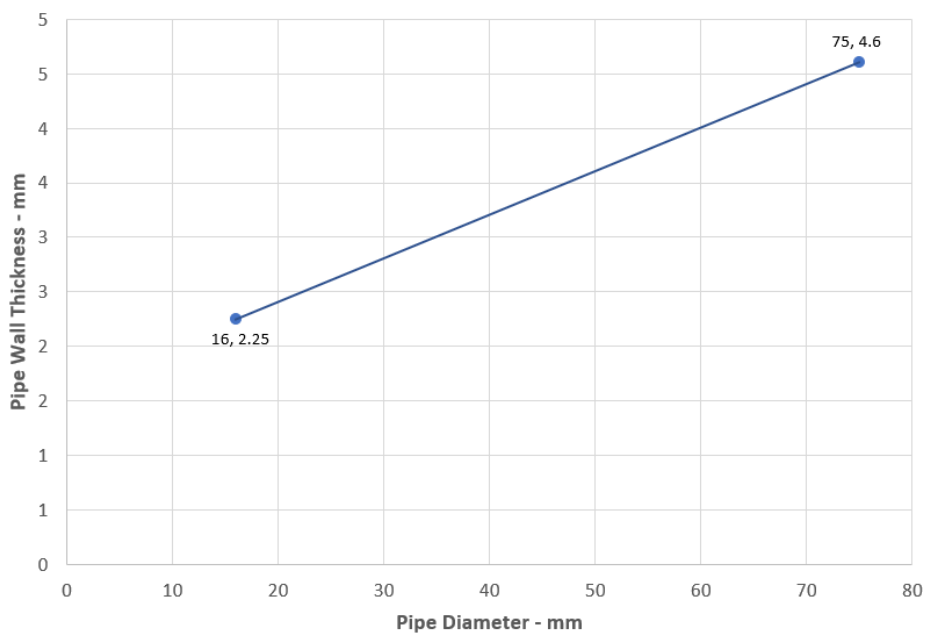
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549



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



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



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

173/179

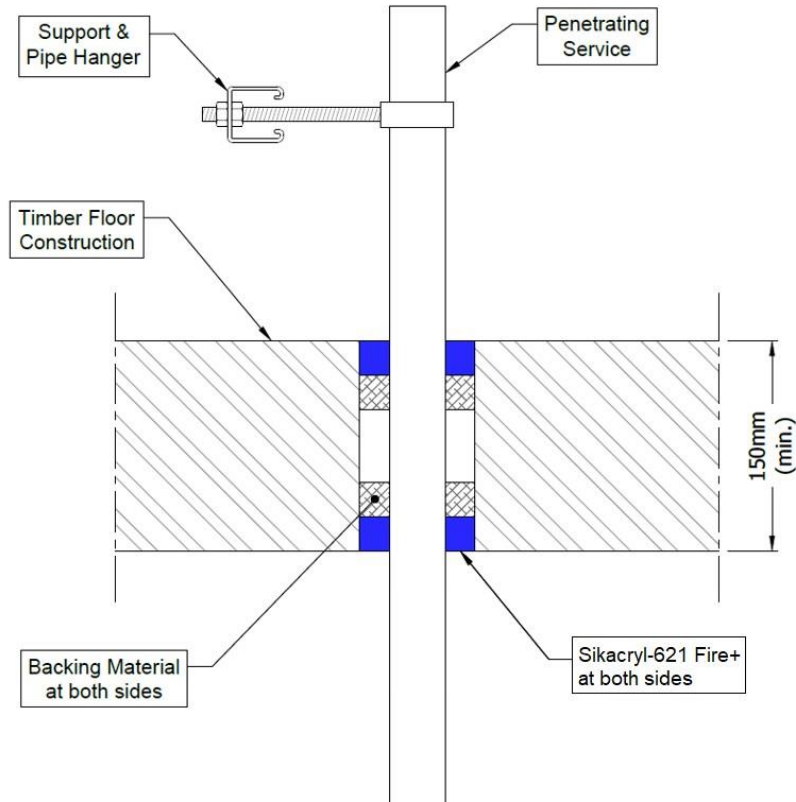
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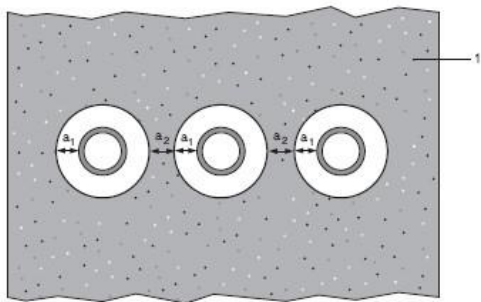
A.7.3 Double side penetration seal with plastic pipes and composite pipes

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

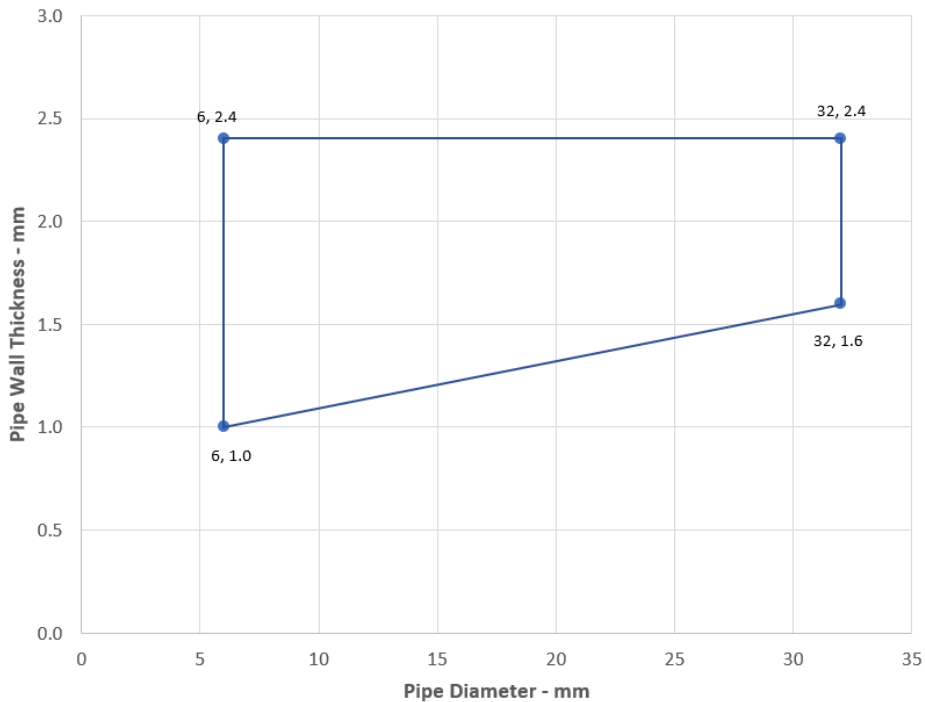
Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

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

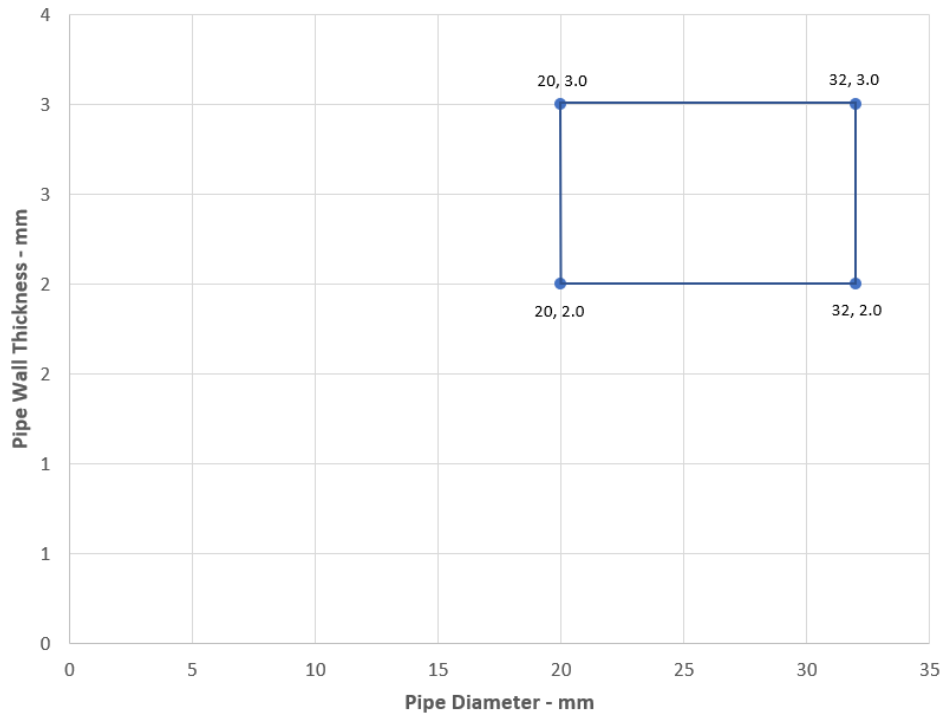
* Typical pipe diameters shown, see below graph for intermediate sizes

PVC-U Pipes EI 120 - U/C

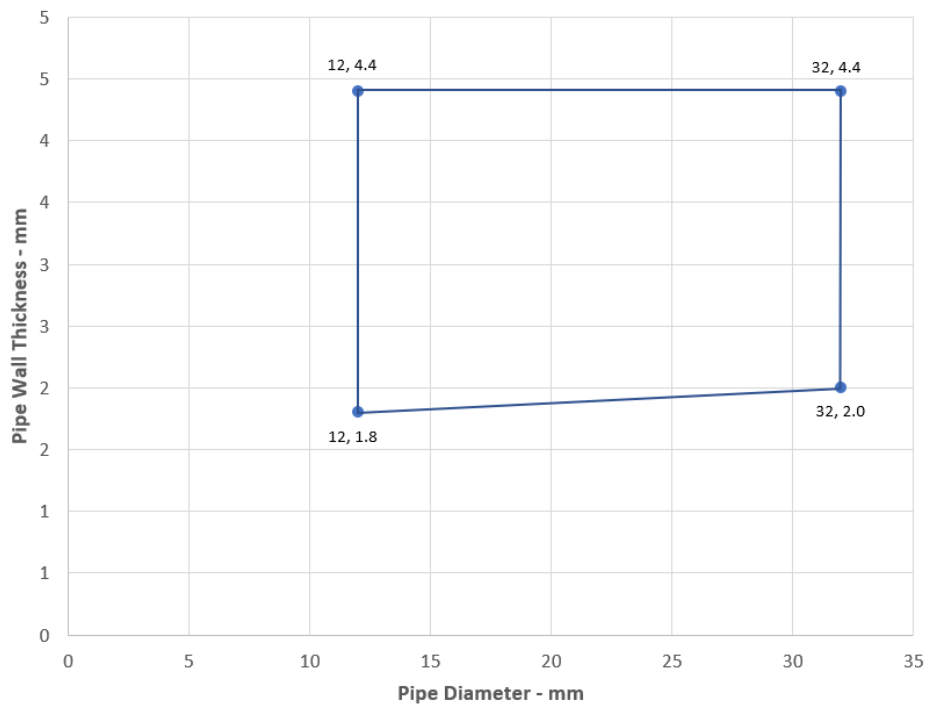


Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01 , ver. 1.1
 1549

PE Pipes EI 120 - U/C

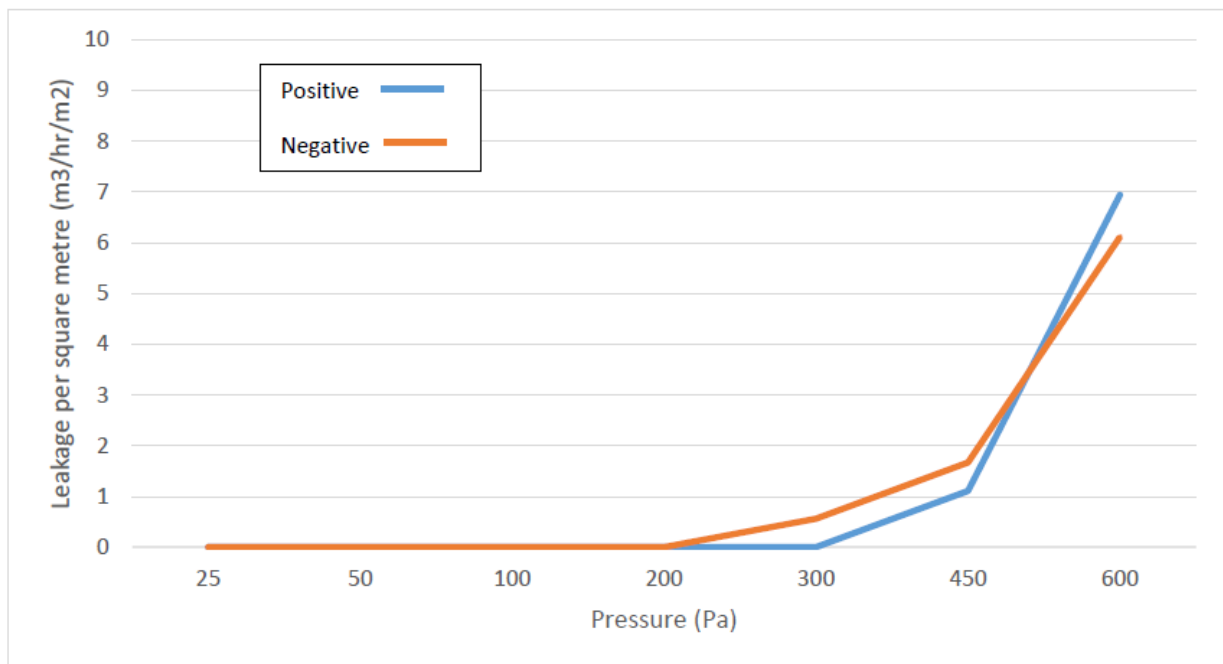


PP Pipes EI 120 - U/C



ANHANG B – Luftdichtheit – 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



Leistungserklärung
 Sikacryl-621 Fire+
 74951760
 2025.01, ver. 1.1
 1549

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

<http://dop.sika.com>

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Sika Services AG, Zurich, Switzerland
74951760
Details siehe Leistungserklärung
EAD 350454-00-1104:2017
Notified Body 2531
Fire Stopping and Sealing Product: Penetration Seals

<http://dop.sika.com>

ÖKOLOGISCHE, GESUNDHEITS- UND SICHERHEITSINFORMATION (REACH)

Für detaillierte Angaben zur sicheren Handhabung, Lagerung und Entsorgung von chemischen Produkten, konsultieren sie bitte das aktuellste Sicherheitsdatenblatt unter www.sika.at, welches physikalische, ökologische, toxikologische und andere sicherheits-relevante Daten enthält.

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Die vorstehenden Angaben, insbesondere die Vorschläge für Verarbeitung und Verwendung unserer Produkte, beruhen auf unseren Kenntnissen und Erfahrungen im Normalfall, vorausgesetzt die Produkte wurden sachgerecht gelagert und angewandt. Wegen der unterschiedlichen Materialien, Untergründen und abweichenden Arbeitsbedingungen kann eine Gewährleistung eines Arbeitsergebnisses oder eine Haftung, aus welchem Rechtsverhältnis auch immer, weder aus diesen Hinweisen, noch aus einer mündlichen Beratung begründet werden, es sei denn, dass uns insoweit Vorsatz oder grobe Fahrlässigkeit zur Last fällt. Hierbei hat der Anwender nachzuweisen, dass er schriftlich alle Kenntnisse, die zur sachgemäßen und erfolgversprechenden Beurteilung durch Sika erforderlich sind, Sika rechtzeitig und vollständig übermittelt wurden. Der Anwender hat die Produkte auf ihre Eignung für den vorgesehenen Anwendungszweck zu prüfen. Änderungen der Produktspezifikationen bleiben vorbehalten. Schutzrechte Dritter sind zu beachten. Im Übrigen gelten unsere jeweiligen Verkaufs- und Lieferbedingungen. Es gilt das jeweils neueste Produktdatenblatt, das von uns angefordert werden kann.

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Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

178/179

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Leistungserklärung
Sikacryl-621 Fire+
74951760
2025.01 , ver. 1.1
1549

179/179

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Sikacryl 621 Fire+

LEISTUNGSERKLÄRUNG Nr. 79744211

1	EINDEUTIGER KENNCODE DES PRODUKTS:	79744211
2	VERWENDUNGSZWECK(E)	EAD 350141-00-1106:2017 Brandschutzprodukte zum Abdichten und Verschließen von Fugen und Öffnungen und zum Aufhalten von Feuer im Brandfall
3	HERSTELLER:	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	BEVOLLMÄCHTIGTER:	
5	SYSTEM(E) ZUR BEWERTUNG UND ÜBERPRÜFUNG DER LEISTUNGSBESTÄNDIGKEIT:	System 1
6b	EUROPÄISCHES BEWERTUNGSDOKUMENT:	EAD 350141-00-1106:2017
	Europäische Technische Bewertung:	ETA-21/0889 vom 2021/10/20
	Technische Bewertungsstelle:	DBI Certification A/S
	Notifizierte Stelle(n):	2531

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

7 ERKLÄRTE LEISTUNG(EN)

Wesentliche Eigenschaften	Leistung	Bewertungssystem	Harmonisierte technische Spezifikation
Brandverhalten	D – s1, d1	System 1	EAD 350141-00-1106:2017
Feuerwiderstand	Anhang A	System 1	
Inhalt, Emission und/oder Freisetzung von gefährlichen Substanzen	Keine Leistung festgestellt	System 1	
Wasserdichtheit	Keine Leistung festgestellt	System 1	
Freisetzung von umwelt- und/oder gesundheitsgefährdenden Chemikalien	Keine Leistung festgestellt	System 1	
Mechanischer Widerstand und Stabilität	Keine Leistung festgestellt	System 1	
Schlagwiderstand	Keine Leistung festgestellt	System 1	
Haftung	Keine Leistung festgestellt	System 1	
Dauerhaftigkeit	Z2	System 1	
Zulässige Gesamtverformung	Keine Leistung festgestellt		
Zyklische Belastung von umlaufenden Abdichtungen an vorgehängten Fassaden	Keine Leistung festgestellt		
Relaxation	Keine Leistung festgestellt		
Lineare Ausdehnung	Keine Leistung festgestellt		
Schalldämmung	Rw(C;Ctr)= 62 (-1;-5) dB*	System 1	
Thermische Eigenschaften	Keine Leistung festgestellt	System 1	
Wasserdampfdurchlässigkeit	Keine Leistung festgestellt	System 1	

* bei 12 mm Fugentiefe

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

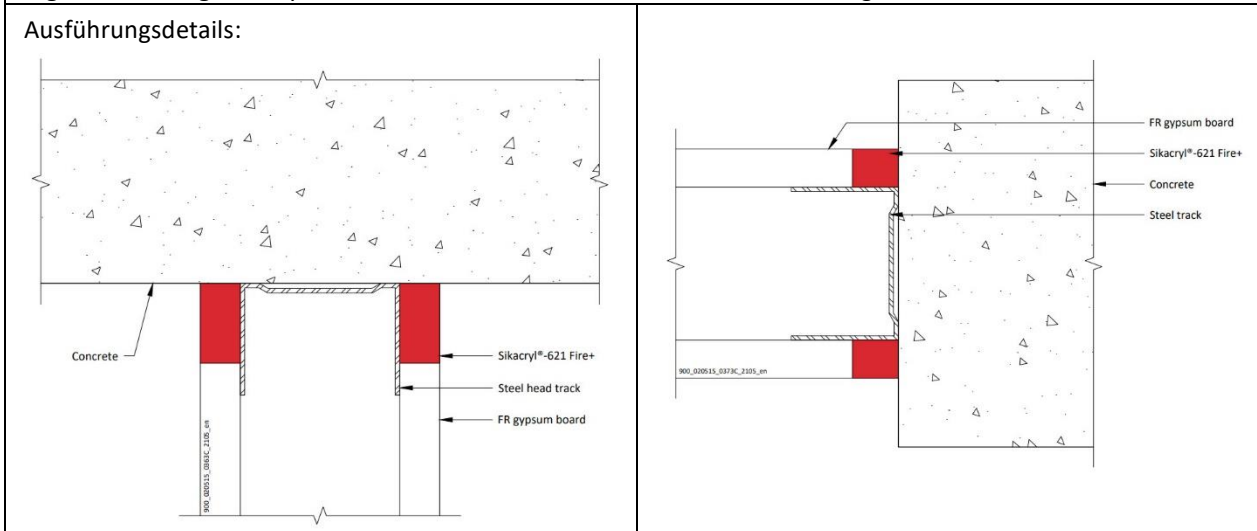
2/26

Anhang A

A.1 Leichtbauwände nach 1.2.1 mit einer Mindestwandstärke von 75 mm und mindestens 1 Platte mit 12,5 mm Dicke pro Seite

A.1.1 Lineare Fugenabdichtung zwischen Oberkante der Leichtbauwand und Untersicht einer Betondecke sowie vertikale Kante der Leichtbauwand und Betonwand

Fugenabdichtung: Sikacryl-621 Fire+ auf beiden Seiten der Wand mit einer Fugenbreite bis zu 30 mm



A.1.1.1

Substrate	Fugentiefe (mm)	Hinterfüllung (Minimum)	Klassifizierung
Gipskartonwand/ Beton	12,5 min.	50 mm Stahlständer	E 60 – T – X – F – W 25 EI 45 – T – X – F – W 25
			E 60 – V – X – F – W 15 EI 45 – V – X – F – W 15

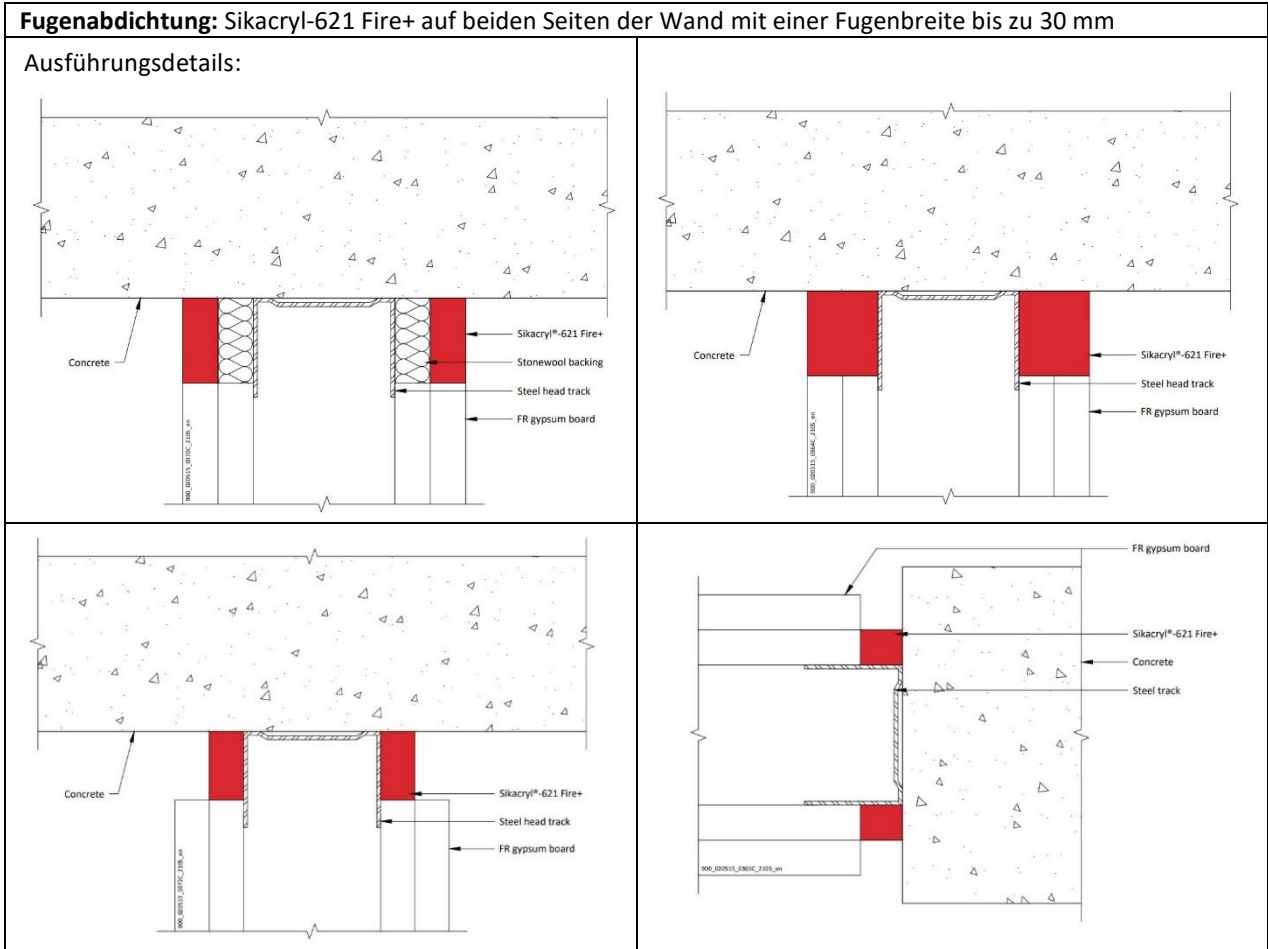
Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

3/26

A.2 Leichtbauwände nach 1.2.1 mit einer Mindestwandstärke von 100 mm und mindestens 2 Platten mit 12,5 mm Dicke pro Seite

A.2.1 Lineare Fugenabdichtung zwischen Oberkante der Leichtbauwand und Untersicht einer Betondecke sowie vertikale Kante der Leichtbauwand und Betonwand



A.2.1.1

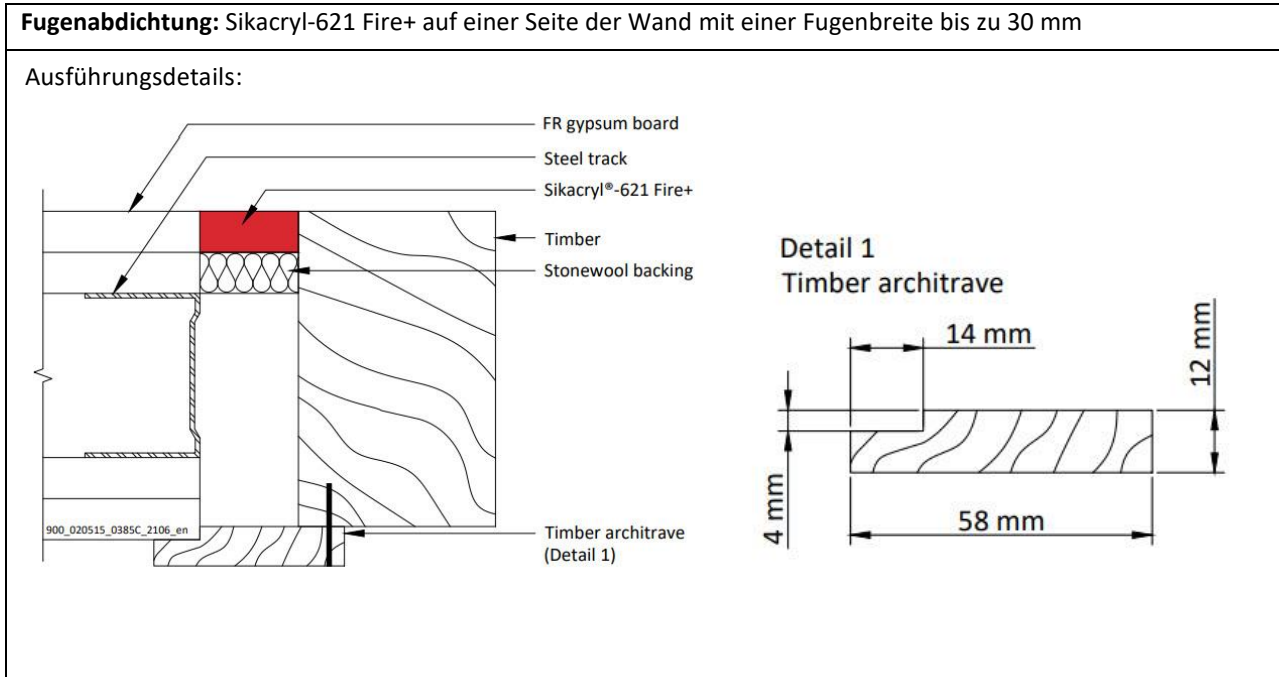
Substrate	Fugentiefe (mm)	Hinterfüllung (Minimum)	Klassifizierung
Gipskartonwand/ Beton	12,5 min.	12,5 mm Steinwolle mind. 35 kg/m ³ plus 50 mm Stahlständer	EI 120 – T – X – F – W 30
		20 mm Steinwolle mind. 35 kg/m ³	EI 120 – V – X – F – W 30
	25 min.	50 mm Stahlständer	EI 120 – T – X – F – W 30
	12,5 min.		EI 90 – T – X – F – W 25
			EI 90 – V – X – F – W 15

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

A.2.2 Leichtbau- oder Massivwände mit Mindestwandstärke von 100 mm und Holzuntergründe und Zargen aus Holz

A.2.2.1 Lineare Fugenabdichtung, vertikal oder horizontal, mit Hinterfüllmaterial



A.2.2.2

Substrate	Fugentiefe (mm)	Ausführung (minimum)	Hinterfüllung	Klassifizierung
Leichtbau- oder Massivwand / Holz	12,5 min.	Einseitige Fugen zwischen Leichtbau- oder Massivwänden und Holzrahmen abgedeckt mit Zargen, fixiert mit 25 mm Stahlpins im Abstand von 300 mm.	12,5 mm Steinwolle, mind. 35 kg/m ³	EI 60 – V – X – F – W 30
				EI 60 – T – X – F – W 30

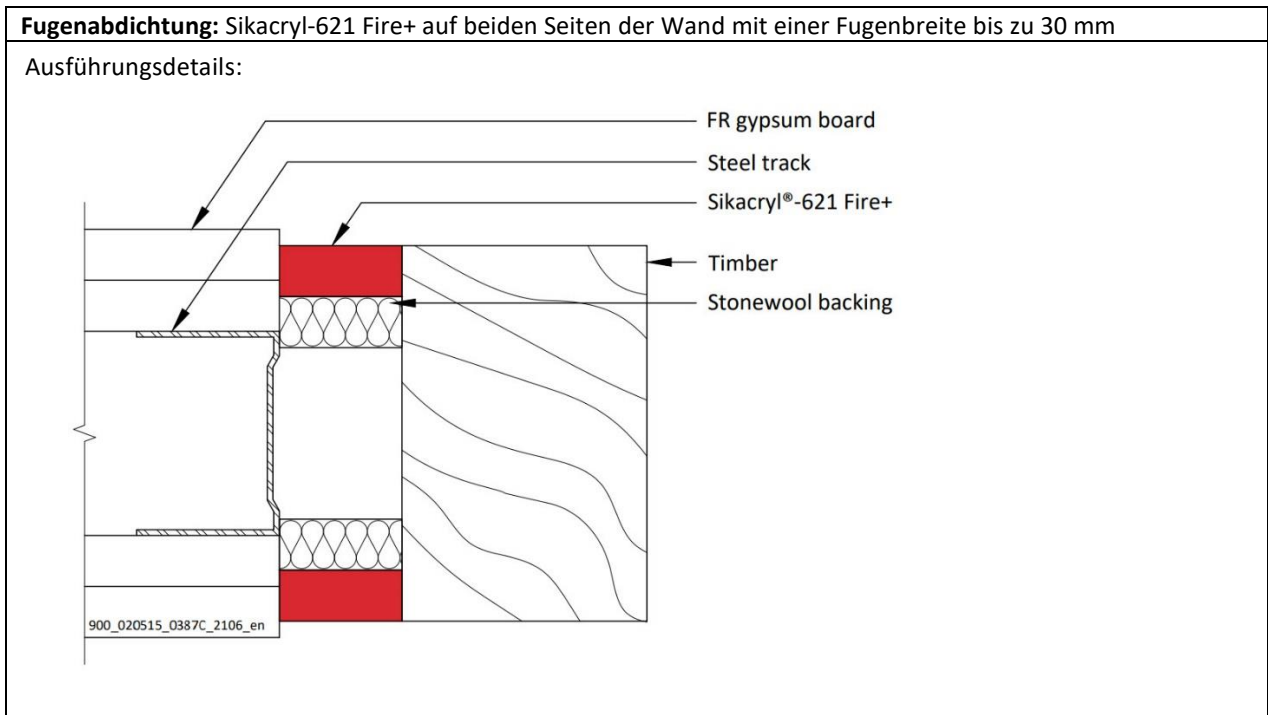
Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

5/26

A.2.3 Leichtbau- oder Massivwände mit Mindestwandstärke von 100 mm und Holzuntergründe

A.2.3.1 Lineare Fugenabdichtung, vertikal oder horizontal, mit Hinterfüllmaterial



A.2.3.2

Substrate	Fugentiefe (mm)	Hinterfüllung	Klassifizierung
Leichtbau- oder Massivwand / Holz	12,5 min.	12,5 mm Steinwolle, mind. 35 kg/m ³	E 90 – V – X – F – W 30
			EI 60 – V – X – F – W 30
			E 90 – T – X – F – W 30
			EI 60 – T – X – F – W 30

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

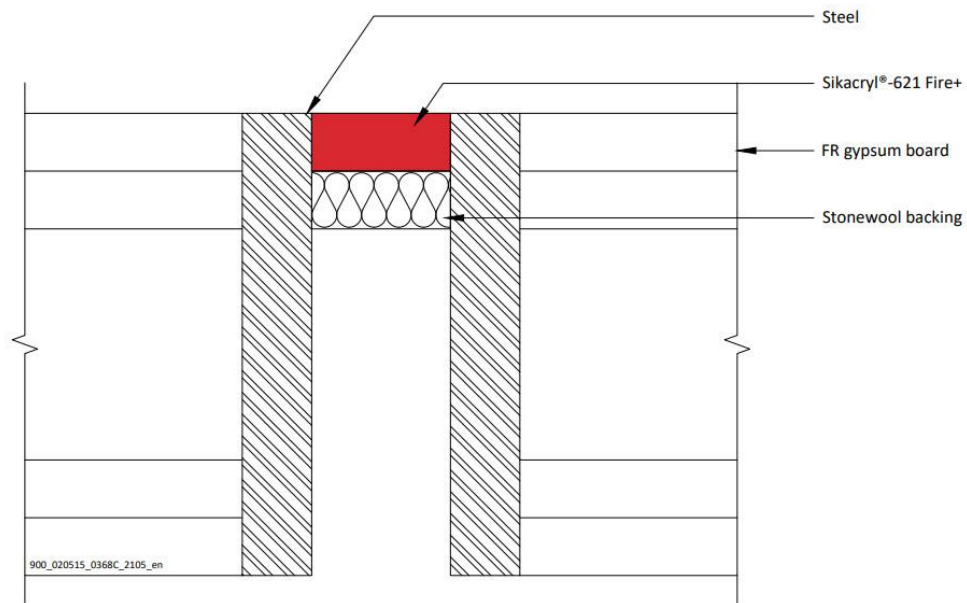
6/26

A.2.4 Leichtbau- oder Massivwände mit Mindestwandstärke von 100 mm und Stahluntergründe

A.2.4.1 Lineare Fugenabdichtung, vertikal oder horizontal, mit Hinterfüllmaterial

Fugenabdichtung: Sikacryl-621 Fire+ auf einer Seite der Wand mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.2.4.2

Substrate	Fugentiefe (mm)	Hinterfüllung	Klassifizierung
Stahl / Stahl	12,5 min.	12,5 mm Steinwolle, mind. 35 kg/m ³	E 120 – V – X – F – W 30
			EI 30 – V – X – F – W 30
Stahl / Stahl	12,5 min.	12,5 mm Steinwolle, mind. 35 kg/m ³	E 120 – T – X – F – W 30
			EI 30 – T – X – F – W 30

Leistungserklärung

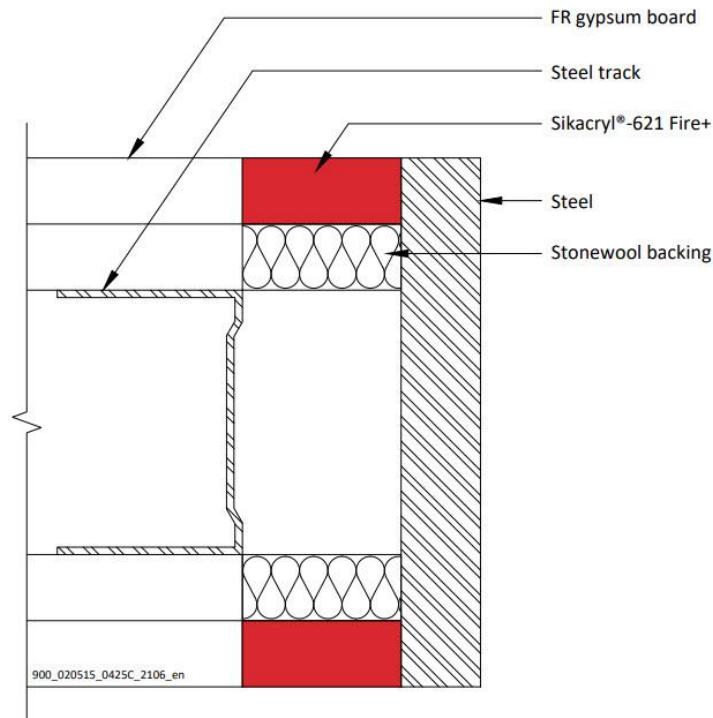
Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

7/26

A.2.5 Lineare Fugenabdichtung, vertikal oder horizontal, mit Hinterfüllmaterial

Fugenabdichtung: Sikacryl-621 Fire+ auf beiden Seiten der Wand mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.2.5.1

Substrate	Fugentiefe (mm)	Hinterfüllung	Klassifizierung*
Leichtbau- oder Massivwand / Stahl	12,5 min.	12,5 mm Steinwolle, mind. 35 kg/m ³	E 120 – V – X – F – W 30 ¹ EI 30 – V – X – F – W 30 ²
			E 120 – T – X – F – W 30 ³ EI 45 – T – X – F – W 30 ⁴

*Weitere Information:

Die Klassifizierung in Tabelle A.2.5.1 berücksichtigt die Bedingungen zum Erreichen des Isolationswertes inklusive aller Komponenten des Systems entsprechend der Anforderungen der EN 1366-4. Dies berücksichtigt auch die Temperaturmessung der Metalluntergründe.

Entsprechend der Temperaturen, gemessen am Fugendichtstoff (ohne Berücksichtigung der Unterkonstruktion) ergeben sich folgende Zeiten des Feuerwiderstands (abgerundet):

¹ 120, ² 90, ³ 120, ⁴ 60

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10, ver. 1
1549

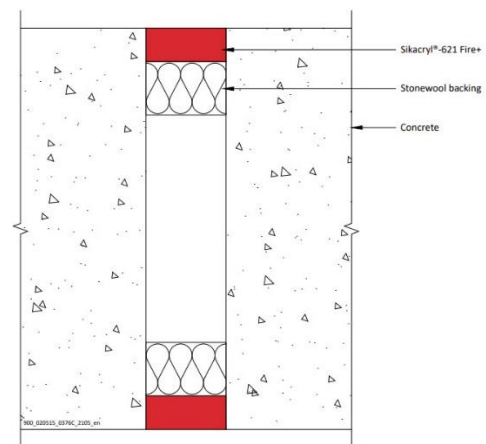
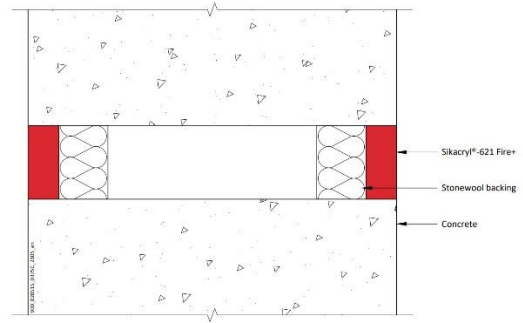
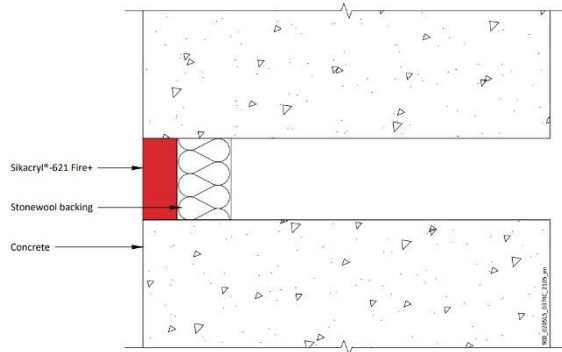
8/26

A.3 Massivwände nach 1.2.1 mit einer Mindestwandstärke von 150 mm

A.3.1 Lineare Fugenabdichtung zwischen Oberkante der Massivwand und Untersicht der Betondecke /zwischen den Massivwänden

Fugenabdichtung: Sikacryl-621 Fire+ an einer der beiden Seiten bündig (oder an einer Position in der Wand) oder an beiden Seiten der Wand bündig mit Fugenbreite bis zu 30 mm

Ausführungsdetails:



Leistungserklärung

Sikacryl 621 Fire+

79744211

2021.10 , ver. 1

1549

9/26

A.3.1.1

Substrate	Fugentiefe (mm)	Hinterfüllung (Minimum)	Klassifizierung
Ziegel/ Beton	>25 (einseitig)	20 mm Steinwolle mind. 40 kg/m ³	E 240 – T – X – F – W 30 EI 60 – T – X – F – W 30
	>15 (beidseitig)		EI 240 – V – X – F – W 30 EI 240 – T – X – F – W 30
	>10 (beidseitig)	60 mm Steinwolle mind. 33 kg/m ³	E 240 – T – X – F – W 50 EI 60 – T – X – F – W 50 EI 120 – V – X – F – W 50
	>25 (einseitig)	48 mm AES Mineralwolle	E 240 – T – X – F – W 30 EI 120 – T – X – F – W 30

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

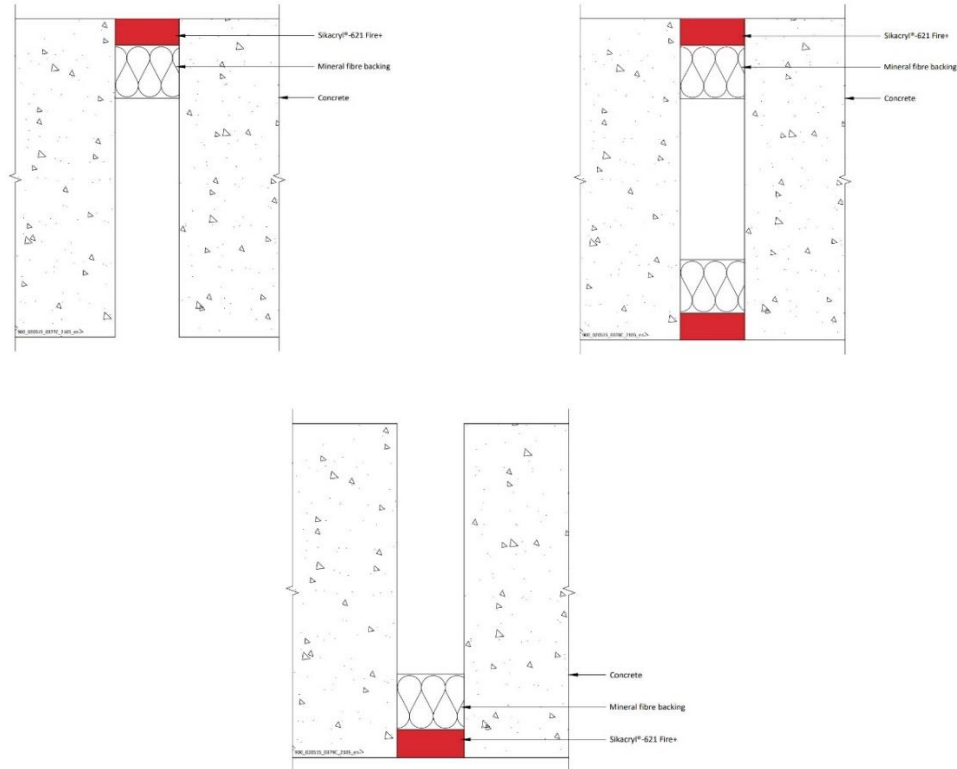
10/26

A.4 Massivwände nach 1.2.1 mit einer Mindestwandstärke von 150 mm

A.4.1 Lineare Fugenabdichtung zwischen Deckenelementen oder zwischen Deckenoberseite und Wänden

Fugenabdichtung: Sikacryl-621 Fire+ an einer der beiden Seiten bündig (oder an einer Position in der Decke) oder an beiden Seiten der Decke bündig mit Fugenbreite bis zu 100 mm

Construction details:



A.4.1.1

Substrate	Fugentiefe (mm)	Hinterfüllung (Minimum)	Klassifizierung
Ziegel/ Beton	>25 (in der Decke)	25 mm AES Mineralwolle	E 120 – H – X – F – W 100
	>25 (bündig Deckenoberseite)		EI 60 – H – X – F – W 100
	>15 (Beidseitig)	25 mm Steinwolle, mind. 40 kg/m ³	EI 180 – H – X – F – W 100
		25 mm Steinwolle, mind. 140 kg/m ³	EI 180 – H – X – F – W 100
	>15 (beidseitig)	25 mm Steinwolle, mind. 35 kg/m ³	EI 240 – H – X – F – W 30
	>10 (bündig Deckenoberseite)	90 mm Steinwolle, mind. 33 kg/m ³	EI 240 – H – X – F – W 100

Leistungserklärung

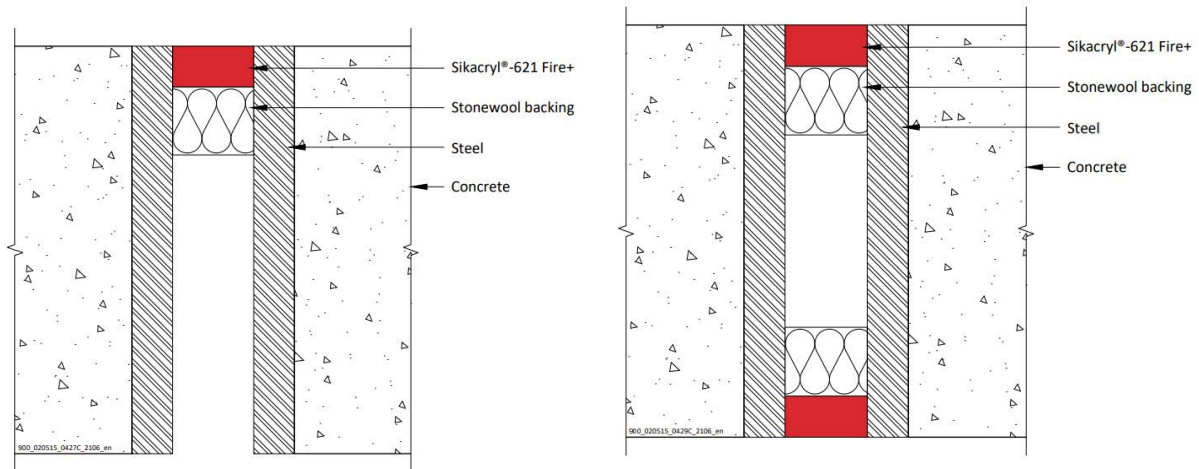
Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

11/26

A.4.2 Lineare Fugenabdichtung zwischen Deckenelementen

Fugenabdichtung: Sikacryl-621 Fire+ an beiden Seiten der Decke bündig oder einseitig an Deckenoberseite mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.4.2.1

Substrate	Fugentiefe (mm)	Hinterfüllung	Position	Klassifizierung*
Stahl/ Stahl oder Stahl/ Beton	>25	50 mm Steinwolle, mind. 35 kg/m ³	Oben	E 240 – H – X – F – W 30 ¹ EI 30 – H – X – F – W 30 ²
	>15	25 mm Steinwolle, mind. 35 kg/m ³	Beidseitig	E 240 – H – X – F – W 30 ³ EI 45 – H – X – F – W 30 ⁴
Aluminium / Beton	>25	50 mm Steinwolle, mind. 35 kg/m ³	Oben	E 180 – H – X – F – W 30 ⁵ EI 20 – H – X – F – W 30 ⁶

*Weitere Information:

Die Klassifizierung in Tabelle A.4.2.1 berücksichtigt die Bedingungen zum Erreichen des Isolationswertes inklusive aller Komponenten des Systems entsprechend der Anforderungen der EN 1366-4. Dies berücksichtigt auch die Temperaturmessung der Metalluntergründe.

Entsprechend der Temperaturen, gemessen am Fugendichtstoff (ohne Berücksichtigung der Unterkonstruktion) ergeben sich folgende Zeiten des Feuerwiderstands (abgerundet):

¹ 240, ² 60, ³ 240, ⁴ 120, ⁵ 180, ⁶ 60

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10, ver. 1
1549

12/26

8 ANGEMESSENE TECHNISCHE DOKUMENTATION UND/ODER SPEZIFISCHE TECHNISCHE DOKUMENTATION

Die Leistung des vorstehenden Produkts entspricht der erklärten Leistung/den erklärten Leistungen. Für die Erstellung der Leistungserklärung im Einklang mit der Verordnung (EU) Nr. 305/2011 ist allein der obengenannte Hersteller verantwortlich.

Unterzeichnet für den Hersteller und im Namen des Herstellers von:

Name: Jochen Kammerer
Funktion: Produktingenieur
In Wien am 13 December 2021

Name: Markus Egger
Funktion: Geschäftsführer
In Wien am 13 December 2021



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Ende der Information nach Verordnung (EU) Nr 305/2011

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

13/26

VOLLSTÄNDIGE CE-KENNZEICHNUNG

 21
Sika Services AG, Zurich, Switzerland
Leistungserklärung 79744211

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

14/26

Brandverhalten	D – s1, d1
Feuerwiderstand	Anhang A
Dauerhaftigkeit	Z2
Schalldämmung	Rw(C;Ctr)= 62 (-1;-5) dB

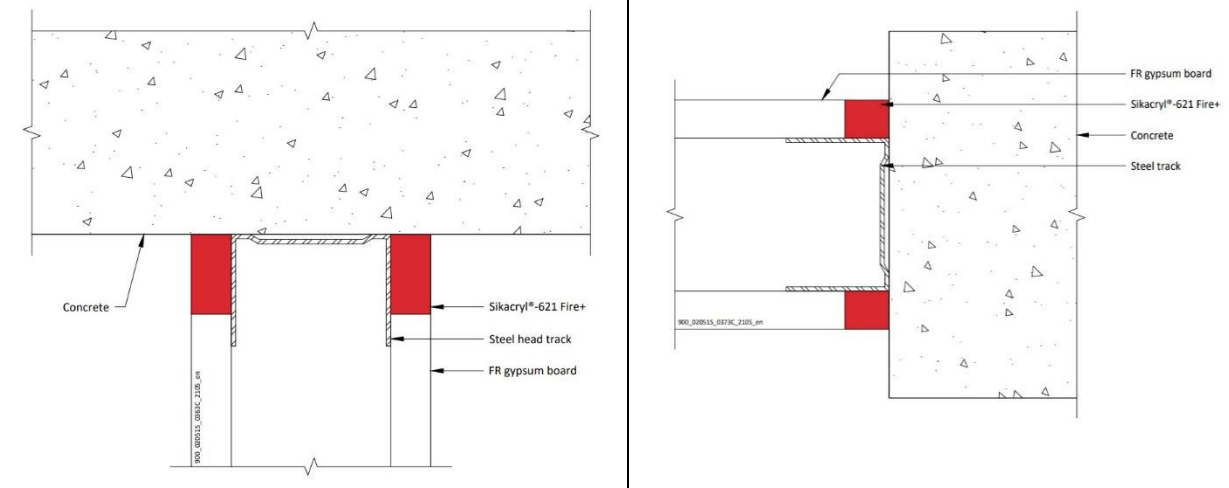
Anhang A

A.1 Leichtbauwände nach 1.2.1 mit einer Mindestwandstärke von 75 mm und mindestens 1 Platte mit 12,5 mm Dicke pro Seite

A.1.1 Lineare Fugenabdichtung zwischen Oberkante der Leichtbauwand und Untersicht einer Betondecke sowie vertikale Kante der Leichtbauwand und Betonwand

Fugenabdichtung: Sikacryl-621 Fire+ auf beiden Seiten der Wand mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.1.1.1

Substrate	Fugentiefe (mm)	Hinterfüllung (Minimum)	Klassifizierung
Gipskartonwand/ Beton	12,5 min.	50 mm Stahlständer	E 60 – T – X – F – W 25 EI 45 – T – X – F – W 25
			E 60 – V – X – F – W 15 EI 45 – V – X – F – W 15

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

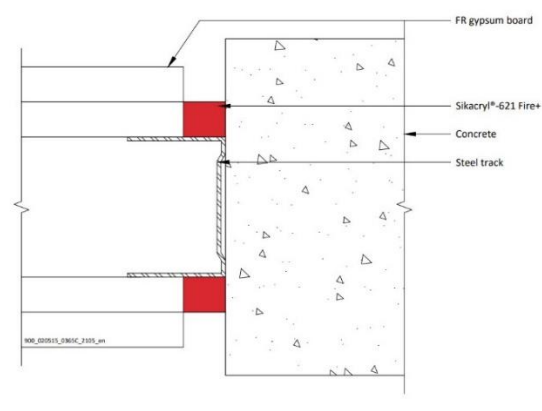
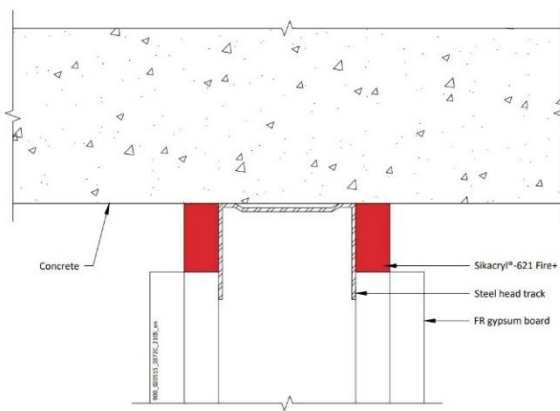
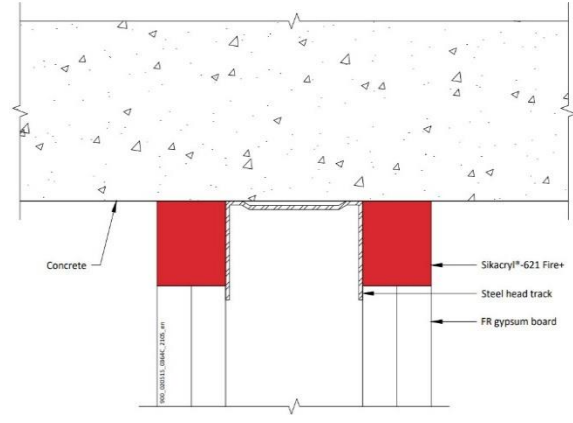
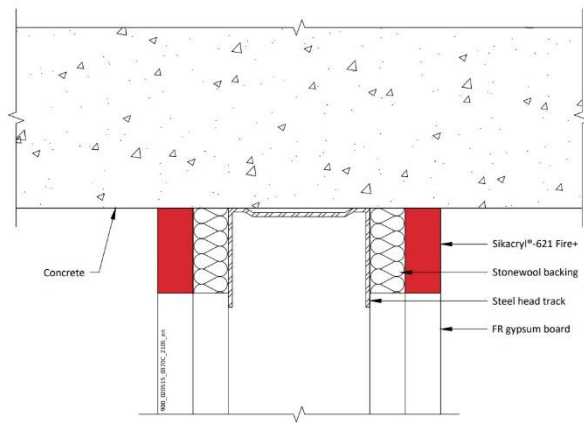
15/26

A.2 Leichtbauwände nach 1.2.1 mit einer Mindestwandstärke von 100 mm und mindestens 2 Platten mit 12,5 mm Dicke pro Seite

A.2.1 Lineare Fugenabdichtung zwischen Oberkante der Leichtbauwand und Untersicht einer Betondecke sowie vertikale Kante der Leichtbauwand und Betonwand

Fugenabdichtung: Sikacryl-621 Fire+ auf beiden Seiten der Wand mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.2.1.1

Substrate	Fugentiefe (mm)	Hinterfüllung (Minimum)	Klassifizierung
Gipskartonwand/ Beton	12,5 min.	12,5 mm Steinwolle mind. 35 kg/m ³ plus 50 mm Stahlständer	EI 120 – T – X – F – W 30
		20 mm Steinwolle mind. 35 kg/m ³	EI 120 – V – X – F – W 30
	25 min.	50 mm Stahlständer	EI 120 – T – X – F – W 30
	12,5 min.		EI 90 – T – X – F – W 25
			EI 90 – V – X – F – W 15

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10, ver. 1
1549

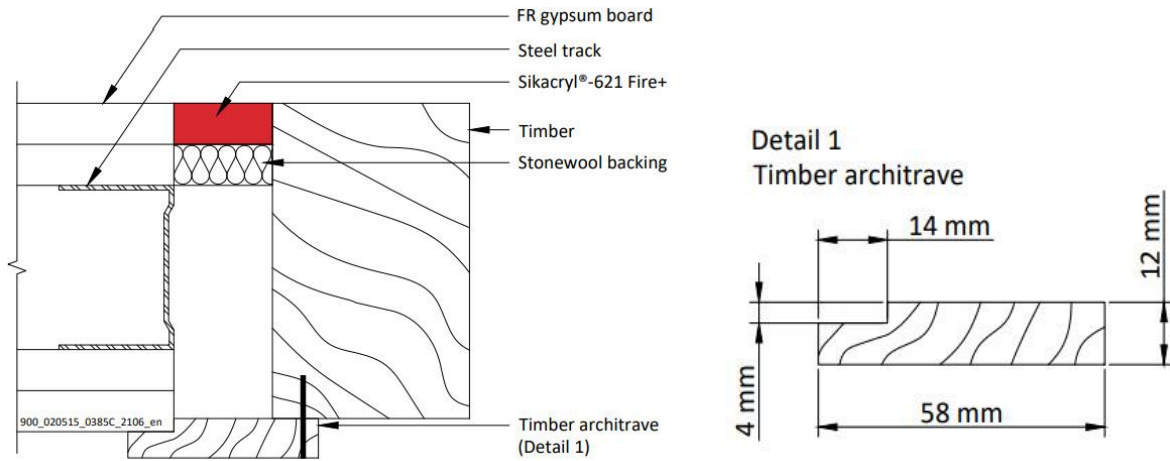
16/26

A.2.2 Leichtbau- oder Massivwände mit Mindestwandstärke von 100 mm und Holzuntergründe und Zargen aus Holz

A.2.2.1 Lineare Fugenabdichtung, vertikal oder horizontal, mit Hinterfüllmaterial

Fugenabdichtung: Sikacryl-621 Fire+ auf einer Seite der Wand mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.2.2.2

Substrate	Fugentiefe (mm)	Ausführung (minimum)	Hinterfüllung	Klassifizierung
Leichtbau- oder Massivwand / Holz	12,5 min.	Einseitige Fugen zwischen Leichtbau- oder Massivwänden und Holzrahmen abgedeckt mit Zargen, fixiert mit 25 mm Stahlpins im Abstand von 300 mm.	12,5 mm Steinwolle, mind. 35 kg/m ³	EI 60 – V – X – F – W 30
				EI 60 – T – X – F – W 30

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10, ver. 1
1549

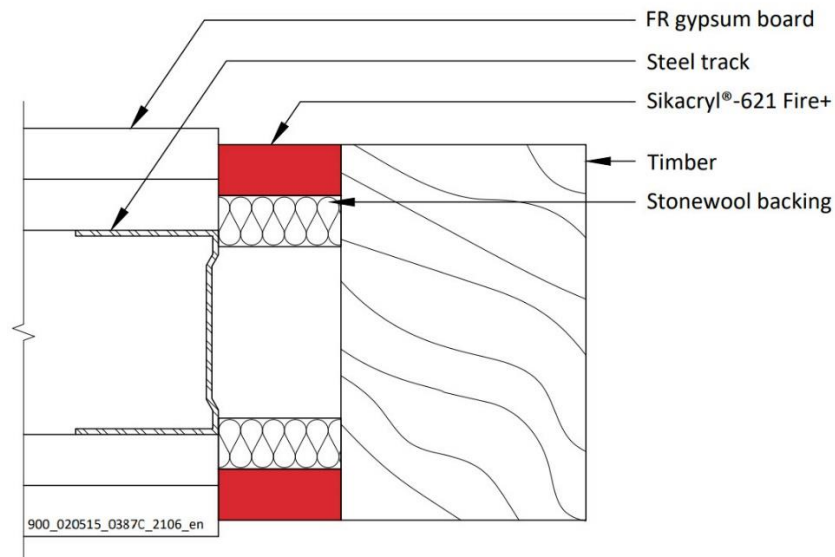
17/26

A.2.3 Leichtbau- oder Massivwände mit Mindestwandstärke von 100 mm und Holzuntergründe

A.2.3.1 Lineare Fugenabdichtung, vertikal oder horizontal, mit Hinterfüllmaterial

Fugenabdichtung: Sikacryl-621 Fire+ auf beiden Seiten der Wand mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.2.3.2

Substrate	Fugentiefe (mm)	Hinterfüllung	Klassifizierung
Leichtbau- oder Massivwand / Holz	12,5 min.	12,5 mm Steinwolle, mind. 35 kg/m ³	E 90 – V – X – F – W 30
			EI 60 – V – X – F – W 30
			E 90 – T – X – F – W 30
			EI 60 – T – X – F – W 30

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

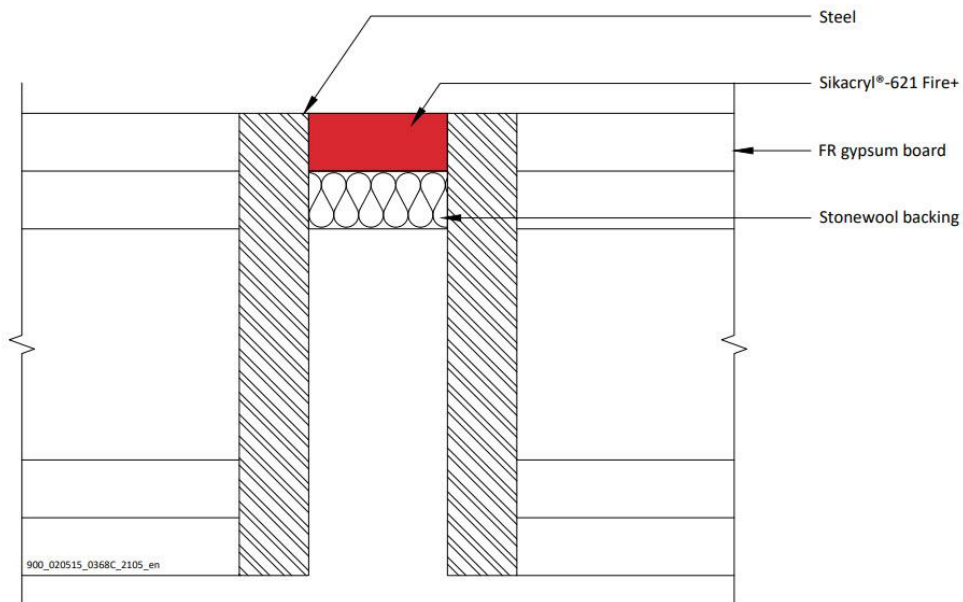
18/26

A.2.4 Leichtbau- oder Massivwände mit Mindestwandstärke von 100 mm und Stahluntergründe

A.2.4.1 Lineare Fugenabdichtung, vertikal oder horizontal, mit Hinterfüllmaterial

Fugenabdichtung: Sikacryl-621 Fire+ auf einer Seite der Wand mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.2.4.2

Substrate	Fugentiefe (mm)	Hinterfüllung	Klassifizierung
Stahl / Stahl	12,5 min.	12,5 mm Steinwolle, mind. 35 kg/m ³	E 120 – V – X – F – W 30
			EI 30 – V – X – F – W 30
Stahl / Stahl	12,5 min.	12,5 mm Steinwolle, mind. 35 kg/m ³	E 120 – T – X – F – W 30
			EI 30 – T – X – F – W 30

Leistungserklärung

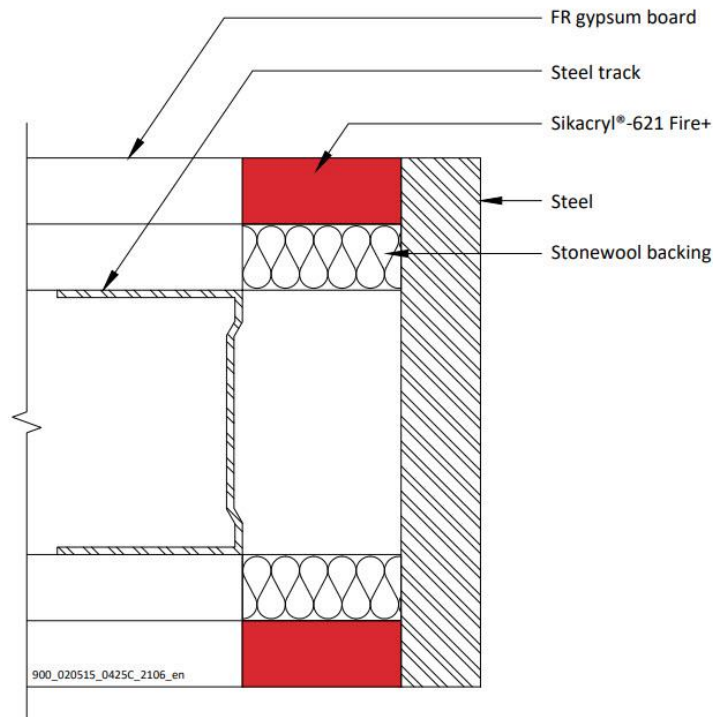
Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

19/26

A.2.5 Lineare Fugenabdichtung, vertikal oder horizontal, mit Hinterfüllmaterial

Fugenabdichtung: Sikacryl-621 Fire+ auf beiden Seiten der Wand mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



B.2.5.1

Substrate	Fugentiefe (mm)	Hinterfüllung	Klassifizierung*
Leichtbau- oder Massivwand / Stahl	12,5 min.	12,5 mm Steinwolle, mind. 35 kg/m ³	E 120 – V – X – F – W 30 ¹ EI 30 – V – X – F – W 30 ²
			E 120 – T – X – F – W 30 ³ EI 45 – T – X – F – W 30 ⁴

*Weitere Information:

Die Klassifizierung in Tabelle A.2.5.1 berücksichtigt die Bedingungen zum Erreichen des Isolationswertes inklusive aller Komponenten des Systems entsprechend der Anforderungen der EN 1366-4. Dies berücksichtigt auch die Temperaturmessung der Metalluntergründe.

Entsprechend der Temperaturen, gemessen am Fugendichtstoff (ohne Berücksichtigung der Unterkonstruktion) ergeben sich folgende Zeiten des Feuerwiderstands (abgerundet):

¹ 120, ² 90, ³ 120, ⁴ 60

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10, ver. 1
1549

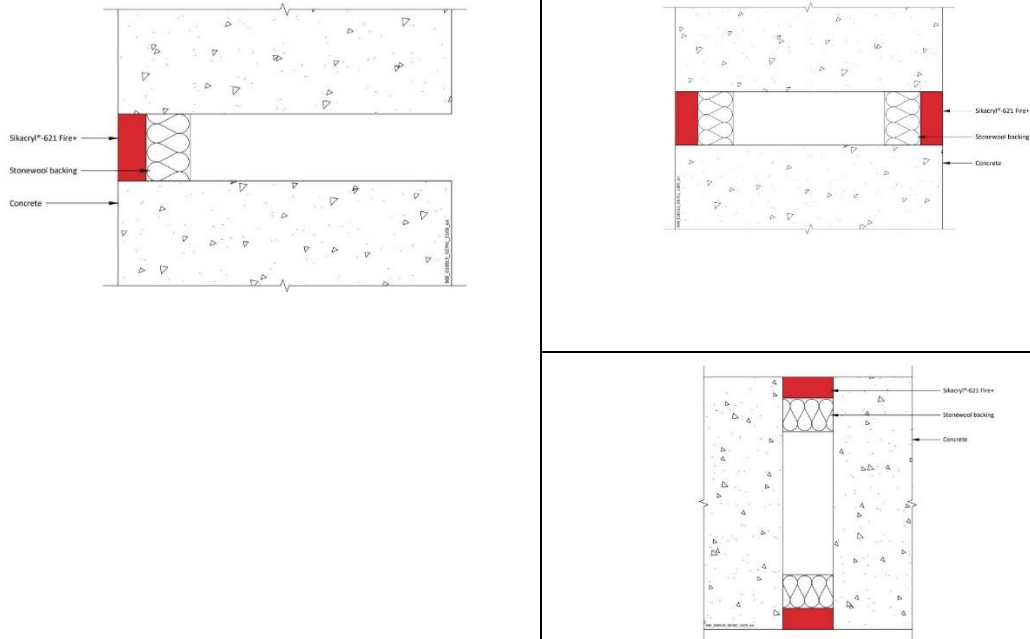
20/26

A.3 Massivwände nach 1.2.1 mit einer Mindestwandstärke von 150 mm

A.3.1 Lineare Fugenabdichtung zwischen Oberkante der Massivwand und Untersicht der Betondecke /zwischen den Massivwänden

Fugenabdichtung: Sikacryl-621 Fire+ an einer der beiden Seiten bündig (oder an einer Position in der Wand) oder an beiden Seiten der Wand bündig mit Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.3.1.1

Substrate	Fugentiefe (mm)	Hinterfüllung (Minimum)	Klassifizierung
Ziegel/ Beton	>25 (einseitig)	20 mm Steinwolle mind. 40 kg/m ³	E 240 – T – X – F – W 30 EI 60 – T – X – F – W 30
	>15 (beidseitig)		EI 240 – V – X – F – W 30 EI 240 – T – X – F – W 30
	>10 (beidseitig)	60 mm Steinwolle mind. 33 kg/m ³	E 240 – T – X – F – W 50 EI 60 – T – X – F – W 50 EI 120 – V – X – F – W 50
	>25 (einseitig)	48 mm AES Mineralwolle	E 240 – T – X – F – W 30 EI 120 – T – X – F – W 30

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

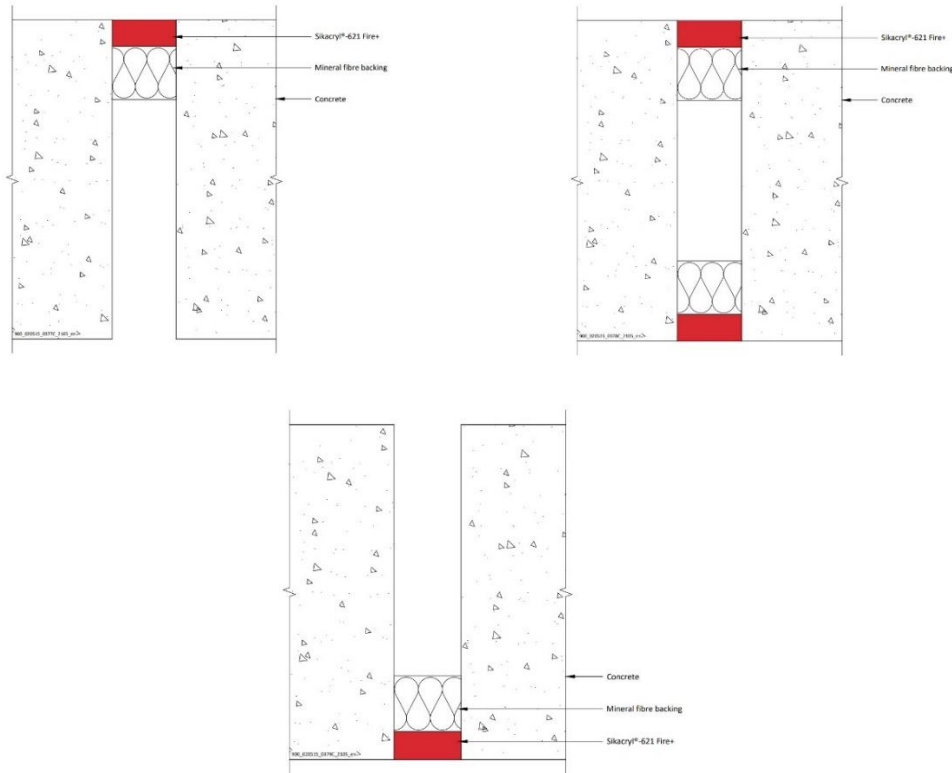
21/26

A.4 Massivwände nach 1.2.1 mit einer Mindestwandstärke von 150 mm

A.4.1 Lineare Fugenabdichtung zwischen Deckenelementen oder zwischen Deckenoberseite und Wänden

Fugenabdichtung: Sikacryl-621 Fire+ an einer der beiden Seiten bündig (oder an einer Position in der Decke) oder an beiden Seiten der Decke bündig mit Fugenbreite bis zu 100 mm

Construction details:



A.4.1.1

Substrate	Fugentiefe (mm)	Hinterfüllung (Minimum)	Klassifizierung
Ziegel/ Beton	>25 (in der Decke)	25 mm AES Mineralwolle	E 120 – H – X – F – W 100
	>25 (bündig Deckenoberseite)		EI 60 – H – X – F – W 100
	>15 (Beidseitig)	25 mm Steinwolle, mind. 40 kg/m ³	EI 120 – H – X – F – W 100
		25 mm Steinwolle, mind. 140 kg/m ³	EI 180 – H – X – F – W 100
	>15 (beidseitig)	25 mm Steinwolle, mind. 35 kg/m ³	EI 240 – H – X – F – W 30
	>10 (bündig Deckenoberseite)	90 mm Steinwolle, mind. 33 kg/m ³	EI 240 – H – X – F – W 100

Leistungserklärung

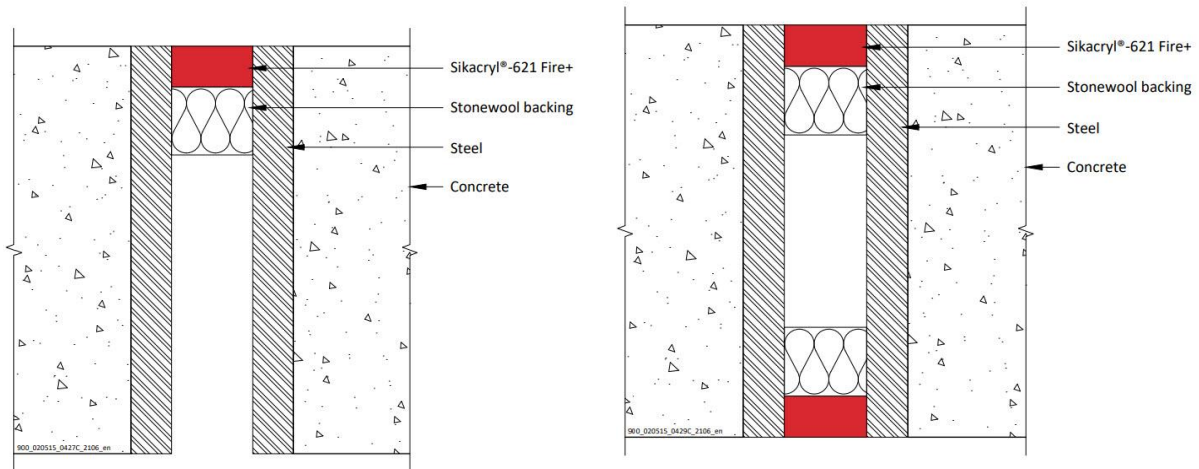
Sikacryl 621 Fire+
79744211
2021.10 , ver. 1
1549

22/26

A.4.2 Lineare Fugenabdichtung zwischen Deckenelementen

Fugenabdichtung: Sikacryl-621 Fire+ an beiden Seiten der Decke bündig oder einseitig an Deckenoberseite mit einer Fugenbreite bis zu 30 mm

Ausführungsdetails:



A.4.2.1

Substrate	Fugentiefe (mm)	Hinterfüllung	Position	Klassifizierung*
Stahl/ Stahl oder Stahl/ Beton	>25	50 mm Steinwolle, mind. 35 kg/m ³	Oben	E 240 – H – X – F – W 30 ¹ EI 30 – H – X – F – W 30 ²
	>15	25 mm Steinwolle, mind. 35 kg/m ³	Beidseitig	E 240 – H – X – F – W 30 ³ EI 45 – H – X – F – W 30 ⁴
Aluminium / Beton	>25	50 mm Steinwolle, mind. 35 kg/m ³	Oben	E 180 – H – X – F – W 30 ⁵ EI 20 – H – X – F – W 30 ⁶

*Weitere Information:

Die Klassifizierung in Tabelle A.4.2.1 berücksichtigt die Bedingungen zum Erreichen des Isolationswertes inklusive aller Komponenten des Systems entsprechend der Anforderungen der EN 1366-4. Dies berücksichtigt auch die Temperaturmessung der Metalluntergründe.

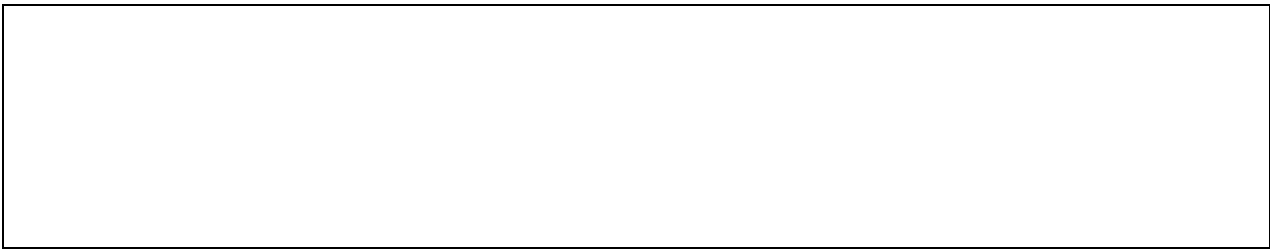
Entsprechend der Temperaturen, gemessen am Fugendichtstoff (ohne Berücksichtigung der Unterkonstruktion) ergeben sich folgende Zeiten des Feuerwiderstands (abgerundet):

¹ 240, ² 60, ³ 240, ⁴ 120, ⁵ 180, ⁶ 60

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10, ver. 1
1549

23/26



EAD 350141-00-1106:2017
Notifizierte Stelle 2531
Brandschutzprodukte zum Abdichten und Verschließen von Fugen und Öffnungen und zum Aufhalten von Feuer im Brandfall

<http://dop.sika.com>

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Sikacryl 621 Fire+

79744211

2021.10 , ver. 1

1549

24/26

CE-KENNZEICHNUNG AUF DER VERPACKUNG

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Sika Services AG, Zurich, Switzerland
79744211
For details see accompanying documents
EAD 350141-00-1106:2017
Notified Body 2531
Fire Stopping and Sealing Product: Linear Joint and Gap Seals

<http://dop.sika.com>

ÖKOLOGISCHE, GESUNDHEITS- UND SICHERHEITSINFORMATIONEN (REACH)

Für detaillierte Angaben zur sicheren Handhabung, Lagerung und Entsorgung von chemischen Produkten konsultieren Sie bitte das aktuelle Sicherheitsdatenblatt unter www.sika.at, welches physikalische, toxikologische und andere sicherheitsrelevante Daten enthält.

RECHTLICHE HINWEISE

Die hier gemachten Angaben und jede andere Beratung beruhen auf unseren aktuellen Kenntnissen und Erfahrungen bei korrekter Lagerung, Handhabung und Verwendung unserer Produkte unter normalen Umständen und entsprechend unseren Empfehlungen. Die Angaben beziehen sich nur auf die ausdrücklich erwähnten Anwendungen und Produkte. Für den Fall, dass sich die Anwendungsparameter ändern, z.B. bei Abweichungen der Untergründe etc., oder bei anderweitiger Anwendung, wenden Sie sich bitte vorher an unsere Technische Beratung. Die hier angegebenen Informationen befreien den Produkthanwender nicht davon, die Eignung des Produkts für die vorgesehene Anwendung und den vorgesehenen Zweck zu überprüfen. Für alle Bestellungen gelten unsere aktuellen Allgemeinen Verkaufs- und Lieferbedingungen. Produkthanwender müssen sich stets auf die neueste Ausgabe des lokalen Produktdatenblatts des betreffenden Produktes beziehen, welches auf Anfrage zur Verfügung gestellt wird.

Leistungserklärung

Sikacryl 621 Fire+
79744211
2021.10, ver. 1
1549

25/26

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Tüffenwies 16-22
8064 Zürich
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Leistungserklärung

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26/26

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

Sikacryl®-621 Fire+



Überarbeitet am: 26.04.2025
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Version 2.0

Druckdatum 05.05.2025

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

1.1 Produktidentifikator

Handelsname : Sikacryl®-621 Fire+

1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Produktverwendung : Dicht- und Klebstoff

1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Name des Herstellerunternehmens : Sika Österreich GmbH
Bingser Dorfstraße 23
6700 Bludenz
Telefon : +43 5 0610 0
E-Mailadresse der für SDB verantwortlichen Person : EHS@at.sika.com

1.4 Notrufnummer

0043 1 4064343 (Giftinformationszentrale Wien)

ABSCHNITT 2: Mögliche Gefahren

2.1 Einstufung des Stoffs oder Gemischs

Einstufung (VERORDNUNG (EG) Nr. 1272/2008)

Kein gefährlicher Stoff oder gefährliches Gemisch gemäss der Verordnung (EG) Nr. 1272/2008.

2.2 Kennzeichnungselemente

Kennzeichnung (VERORDNUNG (EG) Nr. 1272/2008)

Kein gefährlicher Stoff oder gefährliches Gemisch gemäss der Verordnung (EG) Nr. 1272/2008.

Zusätzliche Kennzeichnung

|| EUH208 Enthält 1,2-Benzisothiazol-3(2H)-on (BIT). Kann allergische Reaktionen hervorrufen.

2.3 Sonstige Gefahren

Dieser Stoff/diese Mischung enthält keine Komponenten in Konzentrationen von 0,1 % oder höher, die entweder als persistent, bioakkumulierbar und toxisch (PBT) oder sehr persistent und sehr bioakkumulierbar (vPvB) eingestuft sind.

Umweltbezogene Angaben: Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

Sikacryl®-621 Fire+



Überarbeitet am: 26.04.2025
Datum der letzten Ausgabe: 05.12.2023

Version 2.0

Druckdatum 05.05.2025

Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

Toxikologische Angaben: Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

3.2 Gemische

Inhaltsstoffe

Chemische Bezeichnung	CAS-Nr. EG-Nr. Registrierungsnummer	Einstufung	Konzentration (% w/w)
1,2-Benzisothiazol-3(2H)-on (BIT)	2634-33-5 220-120-9 01-2120761540-60-XXXX	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Faktor (Akute aquatische Toxizität): 1 M-Faktor (Chronische aquatische Toxizität): 1 Spezifische Konzentrationsgrenzwerte Skin Sens. 1A; H317 >= 0,036 % Schätzwert Akuter Toxizität Akute orale Toxizität: 450 mg/kg Akute inhalative Toxizität (Staub/Nebel): 0,21 mg/l	>= 0,025 - < 0,036

Die Erklärung der Abkürzungen finden Sie unter Abschnitt 16.

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

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Version 2.0

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ABSCHNITT 4: Erste-Hilfe-Maßnahmen

4.1 Beschreibung der Erste-Hilfe-Maßnahmen

- Allgemeine Hinweise : Keine besonderen Erste-Hilfe Maßnahmen erforderlich.
- Nach Einatmen : An die frische Luft bringen.
- Nach Hautkontakt : Beschmutzte Kleidung und Schuhe sofort ausziehen.
Mit Seife und viel Wasser abwaschen.
- Nach Augenkontakt : Kontaktlinsen entfernen.
Auge weit geöffnet halten beim Spülen.
- Nach Verschlucken : Erbrechen nicht ohne ärztliche Anweisung herbeiführen.
Mund mit Wasser ausspülen.
Weder Milch noch alkoholische Getränke verabreichen.
Nie einer ohnmächtigen Person etwas durch den Mund einflößen.

4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen

- Symptome : Siehe Abschnitt 11 für detailliertere Informationen zu gesundheitlichen Auswirkungen und Symptomen.
- Risiken : Keine besonderen Wirkungen oder Gefahren bekannt.

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

- Behandlung : Symptomatische Behandlung.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

5.1 Löschmittel

- Geeignete Löschmittel : Im Brandfall, zum Löschen Wasser/Sprühwasser/Wasserstrahl/Kohlendioxid/Sand/Schaum/alkoholbeständigen Schaum/Löschpulver verwenden.

5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren

- Gefährliche Verbrennungsprodukte : Keine gefährlichen Verbrennungsprodukte bekannt

5.3 Hinweise für die Brandbekämpfung

- Besondere Schutzausrüstung für die Brandbekämpfung : Im Brandfall umgebungsluftunabhängiges Atemschutzgerät tragen.

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

Sikacryl®-621 Fire+



Überarbeitet am: 26.04.2025
Datum der letzten Ausgabe: 05.12.2023

Version 2.0

Druckdatum 05.05.2025

Weitere Information : Übliche Maßnahmen bei Bränden mit Chemikalien.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Personenbezogene Vorsichtsmaßnahmen : Persönliche Schutzausrüstung siehe unter Abschnitt 8.

6.2 Umweltschutzmaßnahmen

Umweltschutzmaßnahmen : Keine besonderen Umweltschutzmaßnahmen erforderlich.

6.3 Methoden und Material für Rückhaltung und Reinigung

Reinigungsverfahren : Mit saugfähigem Material (z.B. Lappen, Vlies) aufwischen. Zur Entsorgung in geeignete und verschlossene Behälter geben.

6.4 Verweis auf andere Abschnitte

Persönliche Schutzausrüstung siehe unter Abschnitt 8.

ABSCHNITT 7: Handhabung und Lagerung

7.1 Schutzmaßnahmen zur sicheren Handhabung

Hinweise zum sicheren Umgang : Persönliche Schutzausrüstung siehe unter Abschnitt 8.
Keine besonderen Handhabungshinweise erforderlich.
Die allg. Hygienemaßnahmen im Umgang mit Chemikalien sind zu beachten.

Hinweise zum Brand- und Explosionsschutz : Übliche Maßnahmen des vorbeugenden Brandschutzes.

Hygienemaßnahmen : Bei der Arbeit nicht essen und trinken. Bei der Arbeit nicht rauchen.

7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Anforderungen an Lagerräume und Behälter : Behälter dicht verschlossen an einem trockenen, gut belüfteten Ort aufbewahren. Aufbewahren gemäß den lokalen Vorschriften.

Zusammenlagerungshinweise : Keine besonderen Beschränkungen zur Zusammenlagerung mit anderen Produkten.

Lagerklasse : 12

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

Sikacryl®-621 Fire+



Überarbeitet am: 26.04.2025
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Version 2.0

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Weitere Informationen zur Lagerbeständigkeit : Keine Zersetzung bei bestimmungsgemäßer Lagerung und Anwendung.

7.3 Spezifische Endanwendungen

Bestimmte Verwendung(en) : Vor Gebrauch aktuelles Produktdatenblatt beachten.

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

8.1 Zu überwachende Parameter

Arbeitsplatzgrenzwerte

Enthält keine Stoffe mit Arbeitsplatzgrenzwerten.

8.2 Begrenzung und Überwachung der Exposition

Technische Schutzmaßnahmen

Konzentration in der Luft unter den normalen Arbeitsplatzgrenzwerten halten.
Für ausreichende Belüftung sorgen, besonders in geschlossenen Räumen.

Persönliche Schutzausrüstung

Augen-/Gesichtsschutz : Sicherheitsbrille

Handschutz : Beim Umgang mit chemischen Produkten müssen chemikalienbeständige Handschuhe (EN 374) getragen werden. Herstellerangaben sind zu beachten.
Handschuhe aus Butylkautschuk/Nitrilkautschuk (> 0,1 mm)
Empfohlen: Handschuhe aus Nitrilkautschuk / Butylkautschuk.

Haut- und Körperschutz : Arbeitsschutzkleidung (z.B. Sicherheitsschuhe nach EN ISO 20345, langärmelige Arbeitskleidung, lange Hose). Bei Misch- und Rührarbeiten wird zusätzlich eine Gummischürze und Schutzstiefel (EN 14605) empfohlen.

Atemschutz : Keine besonderen Maßnahmen erforderlich.

Begrenzung und Überwachung der Umweltexposition

Allgemeine Hinweise : Keine besonderen Umweltschutzmaßnahmen erforderlich.

ABSCHNITT 9: Physikalische und chemische Eigenschaften

9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Aggregatzustand : flüssig
Aussehen : Paste
Farbe : verschiedene

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

Sikacryl®-621 Fire+



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Geruch	:	nach Acrylat
Schmelzpunkt/ Schmelzbe- reich / Gefrierpunkt	:	Keine Daten verfügbar
Siedepunkt/Siedebereich	:	Keine Daten verfügbar
Entzündbarkeit (fest, gasför- mig)	:	Keine Daten verfügbar

Obere/untere Zünd- oder Explosionsgrenzen

Obere Explosionsgrenze / Obere Entzündbarkeits- grenze	:	Keine Daten verfügbar
Untere Explosionsgrenze / Untere Entzündbarkeits- grenze	:	Keine Daten verfügbar

Flammpunkt	:	Nicht anwendbar
Zündtemperatur	:	Keine Daten verfügbar
Zersetzungstemperatur	:	Keine Daten verfügbar
pH-Wert	:	ca. 8 (20 °C) Konzentration: 100 %

Viskosität

Viskosität, kinematisch	:	Nicht anwendbar
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Löslichkeit(en)

Wasserlöslichkeit	:	löslich
Verteilungskoeffizient: n- Octanol/Wasser	:	Keine Daten verfügbar
Dampfdruck	:	0,01 hPa
Dichte	:	ca. 1,60 g/cm ³ (20 °C)

SICHERHEITSDATENBLATT

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Sikacryl®-621 Fire+



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Version 2.0

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Relative Dampfdichte : Keine Daten verfügbar

Partikeleigenschaften : Keine Daten verfügbar

9.2 Sonstige Angaben

Keine Daten verfügbar

ABSCHNITT 10: Stabilität und Reaktivität

10.1 Reaktivität

Keine gefährlichen Reaktionen bekannt bei bestimmungsgemäßem Umgang.

10.2 Chemische Stabilität

Das Produkt ist chemisch stabil.

10.3 Möglichkeit gefährlicher Reaktionen

Gefährliche Reaktionen : Keine besonders zu erwähnenden Gefahren.

10.4 Zu vermeidende Bedingungen

Zu vermeidende Bedingungen : Keine Daten verfügbar

10.5 Unverträgliche Materialien

Zu vermeidende Stoffe : Keine Daten verfügbar

10.6 Gefährliche Zersetzungsprodukte

:
Es sind keine gefährlichen Zersetzungsprodukte bekannt.

ABSCHNITT 11: Toxikologische Angaben

11.1 Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Akute Toxizität

Nicht eingestuft wegen Mangel von Daten.

Inhaltsstoffe:

1,2-Benzisothiazol-3(2H)-on (BIT):

Akute orale Toxizität : Schätzwert Akuter Toxizität: 450 mg/kg
Methode: Schätzwert Akuter Toxizität gemäß Verordnung (EG) Nr. 1272/2008

LD50 Oral (Ratte): 450 mg/kg

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

Sikacryl®-621 Fire+



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Version 2.0

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Akute inhalative Toxizität : Schätzwert Akuter Toxizität: 0,21 mg/l
Testatmosphäre: Staub/Nebel
Methode: Schätzwert Akuter Toxizität gemäß Verordnung (EG) Nr. 1272/2008

LC50: 0,21 mg/l
Expositionszeit: 4 h
Testatmosphäre: Staub/Nebel
Methode: OECD Prüfrichtlinie 403

Akute dermale Toxizität : LD50 Dermal (Kaninchen): > 2.000 mg/kg

Ätz-/Reizwirkung auf die Haut

Nicht eingestuft wegen Mangel von Daten.

Schwere Augenschädigung/-reizung

Nicht eingestuft wegen Mangel von Daten.

Sensibilisierung der Atemwege/Haut

Sensibilisierung durch Hautkontakt

Nicht eingestuft wegen Mangel von Daten.

Sensibilisierung durch Einatmen

Nicht eingestuft wegen Mangel von Daten.

Inhaltsstoffe:

1,2-Benzisothiazol-3(2H)-on (BIT):

Bewertung : Sensibilisierung durch Hautkontakt möglich.

Keimzell-Mutagenität

Nicht eingestuft wegen Mangel von Daten.

Karzinogenität

Nicht eingestuft wegen Mangel von Daten.

Reproduktionstoxizität

Nicht eingestuft wegen Mangel von Daten.

Spezifische Zielorgan-Toxizität bei einmaliger Exposition

Nicht eingestuft wegen Mangel von Daten.

Spezifische Zielorgan-Toxizität bei wiederholter Exposition

Nicht eingestuft wegen Mangel von Daten.

Aspirationstoxizität

Nicht eingestuft wegen Mangel von Daten.

11.2 Angaben über sonstige Gefahren

Endokrinschädliche Eigenschaften

Nicht eingestuft wegen Mangel von Daten.

SICHERHEITSDATENBLATT

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Sikacryl®-621 Fire+



Überarbeitet am: 26.04.2025

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Produkt:

Bewertung : Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

ABSCHNITT 12: Umweltbezogene Angaben

12.1 Toxizität

Inhaltsstoffe:

1,2-Benzisothiazol-3(2H)-on (BIT):

Toxizität gegenüber Daphnien und anderen wirbellosen Wassertieren : EC50 (Daphnia (Wasserfloh)): 3 mg/l
Expositionszeit: 48 h

M-Faktor (Akute aquatische Toxizität) : 1

M-Faktor (Chronische aquatische Toxizität) : 1

12.2 Persistenz und Abbaubarkeit

Keine Daten verfügbar

12.3 Bioakkumulationspotenzial

Keine Daten verfügbar

12.4 Mobilität im Boden

Keine Daten verfügbar

12.5 Ergebnisse der PBT- und vPvB-Beurteilung

Produkt:

Bewertung : Dieser Stoff/diese Mischung enthält keine Komponenten in Konzentrationen von 0,1 % oder höher, die entweder als persistent, bioakkumulierbar und toxisch (PBT) oder sehr persistent und sehr bioakkumulierbar (vPvB) eingestuft sind..

12.6 Endokrinschädliche Eigenschaften

Produkt:

Bewertung : Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

Sikacryl®-621 Fire+



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12.7 Andere schädliche Wirkungen

Produkt:

Sonstige ökologische Hinweise : Für dieses Produkt sind keine Daten verfügbar.

ABSCHNITT 13: Hinweise zur Entsorgung

13.1 Verfahren der Abfallbehandlung

Produkt : Die Abfallerzeugung sollte nach Möglichkeit vermieden oder minimiert werden.
Leere Behälter und Auskleidungen können Produktrückstände enthalten.
Abfälle und Behälter müssen in gesicherter Weise beseitigt werden.
Überschüsse und nicht zum Recyceln geeignete Produkte über ein anerkanntes Abfallbeseitigungsunternehmen entsorgen.
Die Entsorgung dieses Produkts sowie seiner Lösungen und Nebenprodukte muss jederzeit unter Einhaltung der Umweltschutzanforderungen und Abfallbeseitigungsgesetze sowie den Anforderungen der örtlichen Behörden erfolgen.
Vermeiden Sie die Verbreitung und das Abfließen von freigesetztem Material sowie den Kontakt mit dem Erdreich, Gewässern, Abflüssen und Abwasserleitungen.

Österreich - Abfallkatalog : 55905

Verunreinigte Verpackungen : ARA Lizenznummer: 1899 (gilt nur für die restentleerte Verpackung) Restentleert Behälter sind einer Verwertung im Sinn der Verpackungsverordnung zurückzuführen.

ABSCHNITT 14: Angaben zum Transport

14.1 UN-Nummer oder ID-Nummer

ADR : Nicht als Gefahrgut eingestuft

IMDG : Nicht als Gefahrgut eingestuft

IATA : Nicht als Gefahrgut eingestuft

14.2 Ordnungsgemäße UN-Versandbezeichnung

ADR : Nicht als Gefahrgut eingestuft

IMDG : Nicht als Gefahrgut eingestuft

IATA : Nicht als Gefahrgut eingestuft

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

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14.3 Transportgefahrenklassen

ADR : Nicht als Gefahrgut eingestuft

IMDG : Nicht als Gefahrgut eingestuft

IATA : Nicht als Gefahrgut eingestuft

14.4 Verpackungsgruppe

ADR : Nicht als Gefahrgut eingestuft

IMDG : Nicht als Gefahrgut eingestuft

IATA (Fracht) : Nicht als Gefahrgut eingestuft

IATA (Passagier) : Nicht als Gefahrgut eingestuft

14.5 Umweltgefahren

Nicht als Gefahrgut eingestuft

14.6 Besondere Vorsichtsmaßnahmen für den Verwender

Nicht anwendbar

14.7 Massengutbeförderung auf dem Seeweg gemäß IMO-Instrumenten

Auf Produkt im Lieferzustand nicht zutreffend.

ABSCHNITT 15: Rechtsvorschriften

15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

Internationales Chemiewaffenübereinkommen (CWÜ) : Nicht anwendbar
Listen der toxischen Chemikalien und Ausgangsstoffe

REACH Information: Die in unseren Produkten enthaltenen Stoffe sind
- von unseren Lieferanten registriert und/oder
- von uns registriert und/oder
- von der REACH Verordnung ausgenommen und/oder
- unterliegen der REACH Verordnung, aber sind von der Registrierpflicht ausgenommen.

REACH - Beschränkungen der Herstellung, des Inverkehrbringens und der Verwendung bestimmter gefährlicher Stoffe, Gemische und Erzeugnisse (Anhang XVII) : Die Beschränkungsbedingungen für folgende Einträge sollten berücksichtigt werden:
Nummer in der Liste 75

REACH - Liste der für eine Zulassung in Frage kommenden besonders besorgniserregenden Stoffe (Artikel 59). : Keine der Komponenten ist gelistet
(=> 0.1 %).

REACH - Verzeichnis der zulassungspflichtigen Stoffe (Anhang XIV) : Nicht anwendbar

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

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Verordnung (EG) Nr. 2024/590 über Stoffe, die zum Abbau der Ozonschicht führen : Nicht anwendbar

Verordnung (EU) 2019/1021 über persistente organische Schadstoffe (Neufassung) : Nicht anwendbar

Verordnung (EU) Nr. 649/2012 des Europäischen Parlaments und des Rates über die Aus- und Einfuhr gefährlicher Chemikalien : Nicht anwendbar

Gefahrklasse nach VbF : Entfällt

Seveso III: Richtlinie 2012/18/EU des Europäischen Parlaments und des Rates zur Beherrschung der Gefahren schwerer Unfälle mit gefährlichen Stoffen.
Nicht anwendbar

Wassergefährdungsklasse : WGK 2 deutlich wassergefährdend
Einstufung nach AwSV, Anlage 1 (5.2)

Flüchtige organische Verbindungen : Verordnung über die Lenkungsabgabe auf flüchtige organische Verbindungen (VOCV) ohne VOC-Abgabe

Richtlinie 2010/75/EU des Europäischen Parlaments und des Rates vom 24. November 2010 über Emissionen aus Industrie und Tierhaltung (integrierte Vermeidung und Verminderung der Umweltverschmutzung)
Nicht anwendbar

15.2 Stoffsicherheitsbeurteilung

Für diese Mischung wurde keine Stoffsicherheitsbeurteilung durchgeführt.

ABSCHNITT 16: Sonstige Angaben

Volltext der H-Sätze

H302 : Gesundheitsschädlich bei Verschlucken.
H315 : Verursacht Hautreizungen.
H317 : Kann allergische Hautreaktionen verursachen.
H318 : Verursacht schwere Augenschäden.
H330 : Lebensgefahr bei Einatmen.
H400 : Sehr giftig für Wasserorganismen.
H410 : Sehr giftig für Wasserorganismen, mit langfristiger Wirkung.

Volltext anderer Abkürzungen

SICHERHEITSDATENBLATT

gemäß der Verordnung (EG) Nr. 1907/2006, geändert durch die Verordnung (EU) 2020/878 der Kommission

Sikacryl®-621 Fire+



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Acute Tox.	:	Akute Toxizität
Aquatic Acute	:	Kurzfristig (akut) gewässergefährdend
Aquatic Chronic	:	Langfristig (chronisch) gewässergefährdend
Eye Dam.	:	Schwere Augenschädigung
Skin Irrit.	:	Reizwirkung auf die Haut
Skin Sens.	:	Sensibilisierung durch Hautkontakt
ADR	:	Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

Weitere Information

Die in diesem Sicherheitsdatenblatt enthaltenen Angaben entsprechen unserem Wissensstand zur Zeit der Publikation. Sie stellen keine zugesicherten Eigenschaften dar. Bezüglich Gewährleistung gelten ausschließlich die entsprechenden Produktdatenblätter und die allgemeinen Verkaufsbedingungen. Vor Verwendung und Verarbeitung Produktdatenblätter beachten.

Änderungen gegenüber der letzten Ausgabe !

AT / DE