

Sikacryl 621 Fire+

DECLARATION OF PERFORMANCE

No. 58967197

| | | |
|----|--|---|
| 1 | UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE: | 58967197 |
| 2 | INTENDED USE/S | EAD 350454-00-1104:2017 Fire Stopping and Sealing Product: Penetration Seals |
| 3 | MANUFACTURER: | Sika Services AG Tüffenwies 16-22 8064 Zürich |
| 4 | AUTHORISED REPRESENTATIVE: | |
| 5 | SYSTEM/S OF AVCP: | System 1 |
| 6b | EUROPEAN ASSESSMENT DOCUMENT: | EAD 350454-00-1104:2017 |
| | European Technical Assessment: | ETA-21/0888 of 2021/10/20 |
| | Technical Assessment Body: | DBI Certification A/S |
| | Notified body/ies: | 2531 |

7 DECLARED PERFORMANCE/S

| Essential Characteristics | Performance | AVCP | Harmonised Technical Specification |
|-------------------------------------|-------------------------|-------------|---|
| Reaction to fire | B – s1, d0 | System 1 | EAD 350454-00-1104:2017 |
| Resistance to fire | Annex A | System 1 | |
| Air permeability | Annex B | System 1 | |
| Water permeability | No performance assessed | System 1 | |
| Release of dangerous substances | No performance assessed | System 1 | |
| Mechanical resistance and stability | No performance assessed | System 1 | |
| Resistance to impact/movement | No performance assessed | System 1 | |
| Adhesion | No performance assessed | System 1 | |
| Durability | Z2 | System 1 | |
| Airborne sound insulation | No performance assessed | System 1 | |
| Thermal properties | No performance assessed | System 1 | |
| Water vapour permeability | No performance assessed | System 1 | |

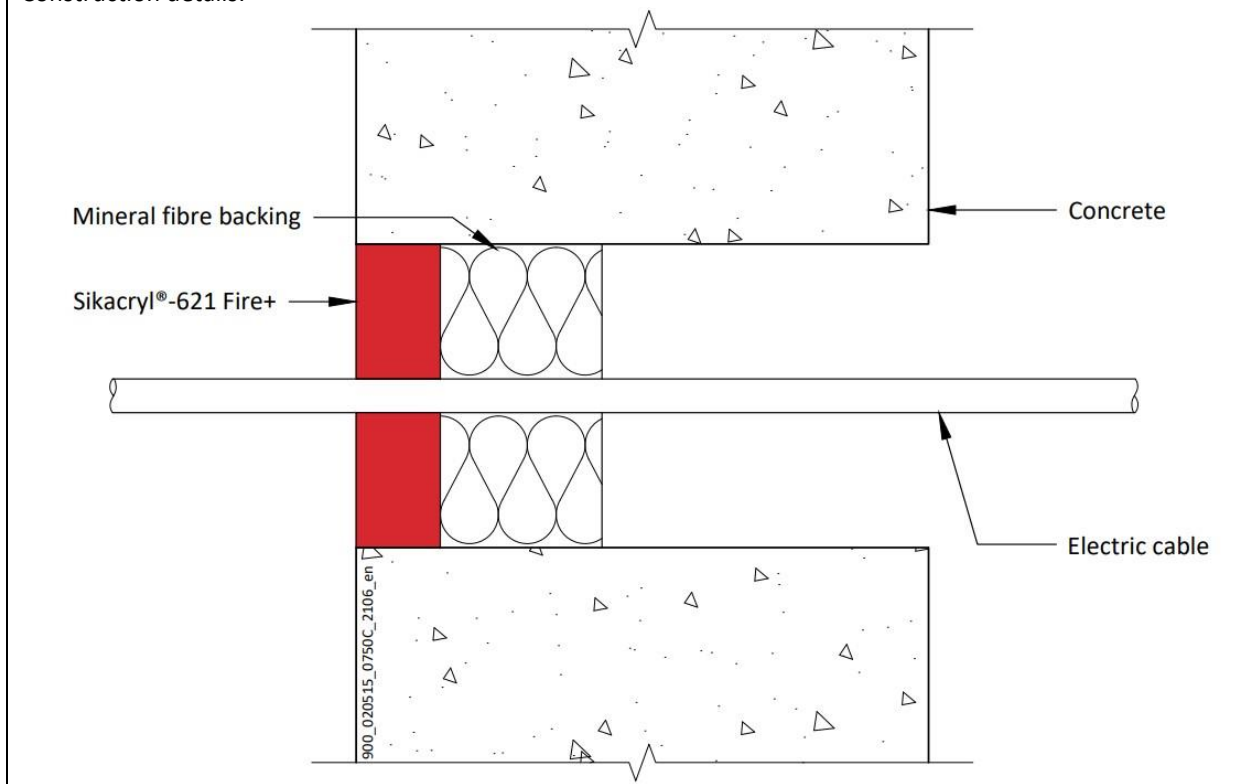
ANNEX A – Resistance to Fire Classification – Sikacryl-621 Fire+

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

A.1.1 Single side penetration seal with cables

Penetration Seal: Cables (single) fitted at any position within the aperture, with Sikacryl-621 Fire+ to either side of the wall (or at any position in between), backed with 'AES mineral fibre'. 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 mineral fibre | 87 mm \varnothing | E 240, EI 90 |
| Blank seals | 25 mm | 48 mm AES mineral fibre insulation | 300 x 300 mm | E 240, EI 60 |
| Electric cables up to 21 mm diameter, single. | | | | |
| Blank seals | 25 mm | 48 mm AES mineral fibre insulation | 35 x 35 mm / 36 mm \varnothing | E 240, EI 120 |
| Electric cables up to 21 mm diameter, single. | | | | |

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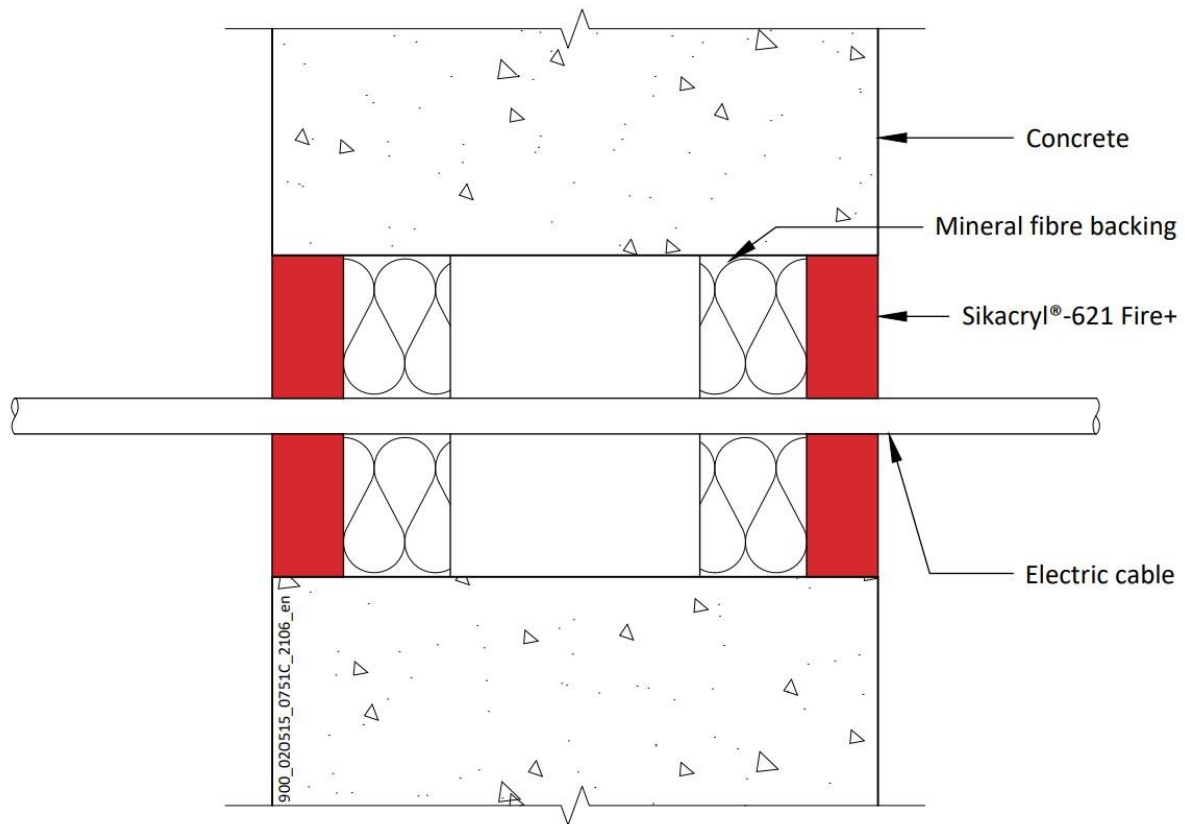
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A.1.2 Double side penetration seal with cables

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 mineral fibre | | 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 |

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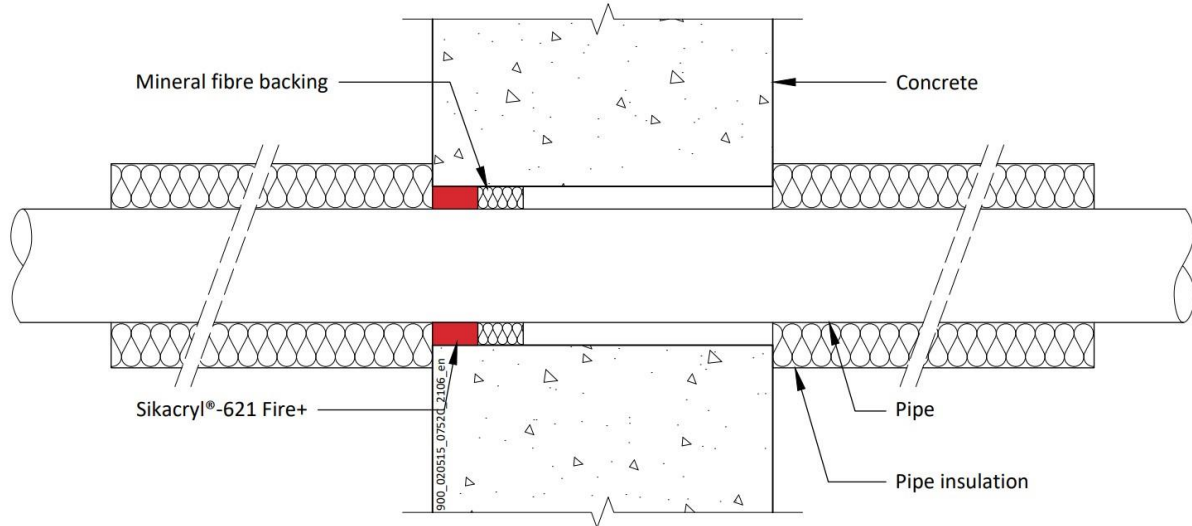
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A.1.3 Single side penetration seal with metallic (and composite) pipes

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 mineral fibre insulation, 600 mm long (min.) | EI 120 C/U |

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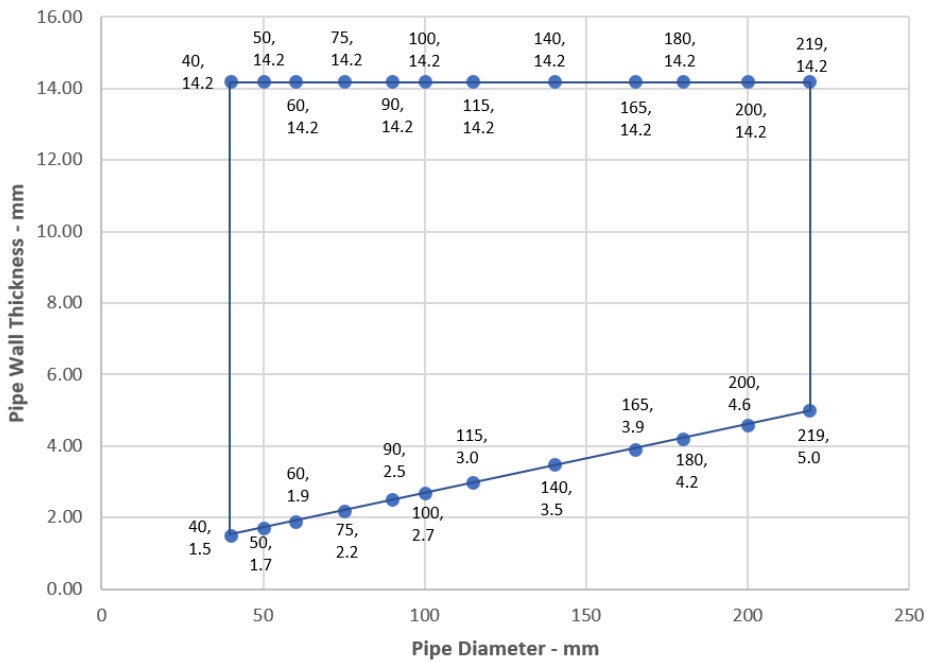
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| Services | Seal width around pipe | Insulation (minimum) | Classification |
|------------------------------------|------------------------|--|----------------------|
| Mild or stainless steel pipe | | | |
| 40 mm diameter/1.5-14.2 mm wall* | 6-18 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



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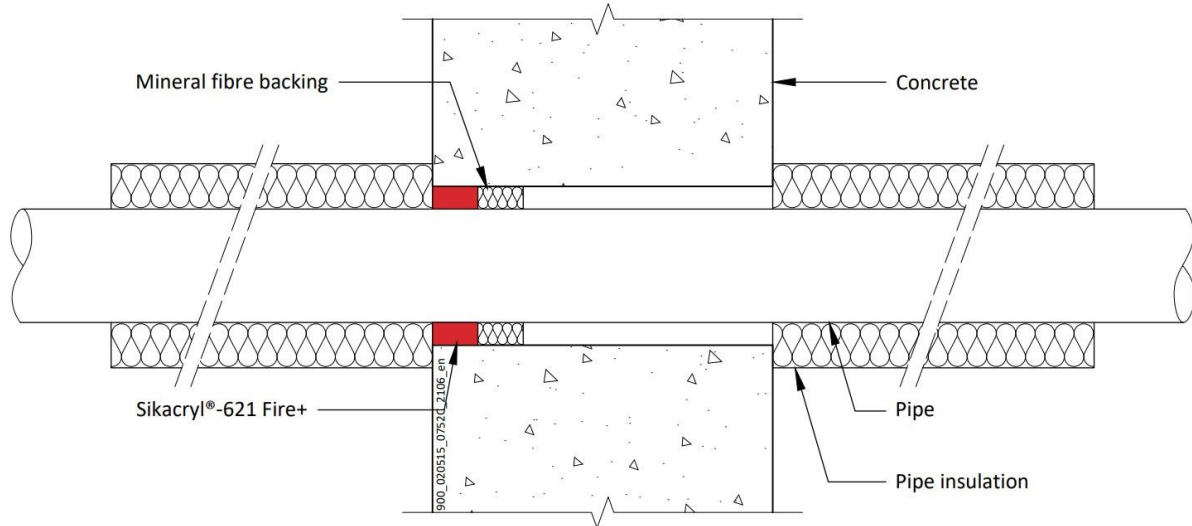
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A.1.4 Single side penetration seal with metallic (and composite) pipes

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 mineral fibre insulation, 600 mm long (min.) | |

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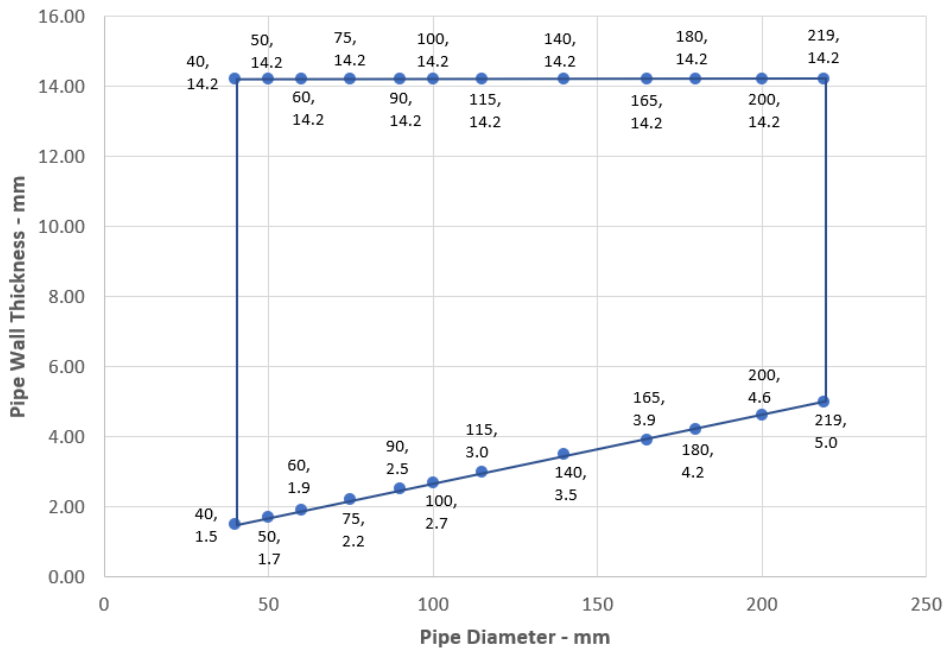
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| Services | Maximum seal size | Insulation (minimum) | Classification |
|------------------------------------|-------------------|--|----------------------|
| Mild or stainless steel pipe | | | |
| 40 mm diameter/1.5-14.2 mm wall* | 300 x 300 mm | 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

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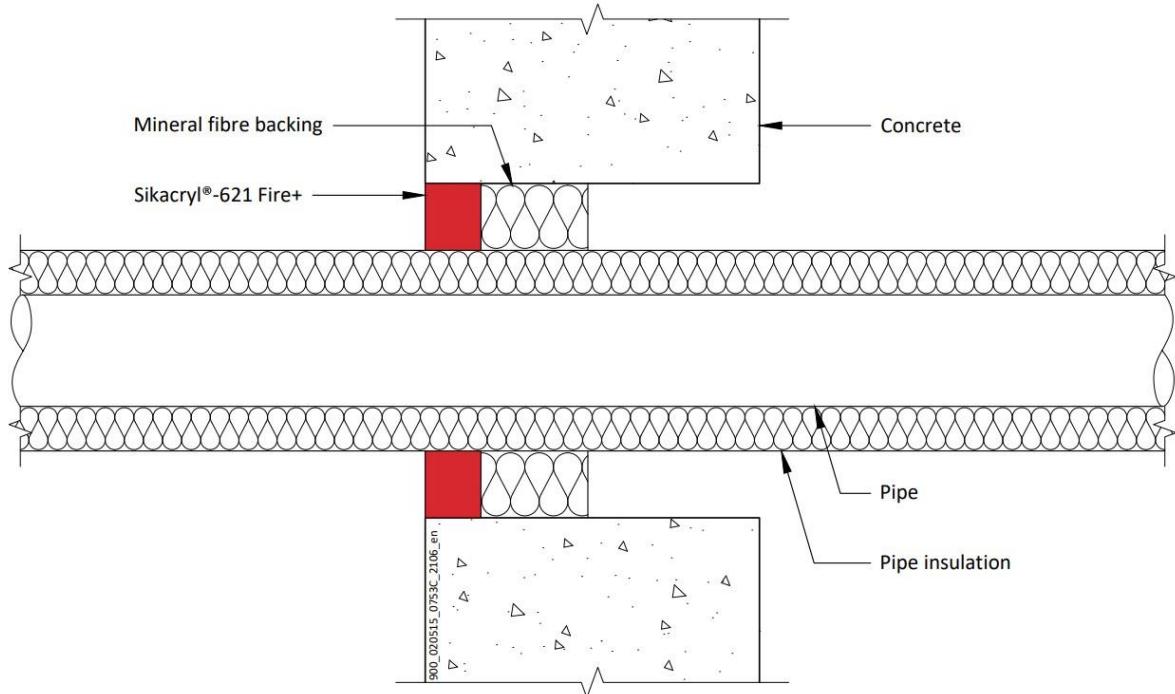
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A.1.5 Single side penetration seal with metallic pipes

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 mineral fibre 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 .

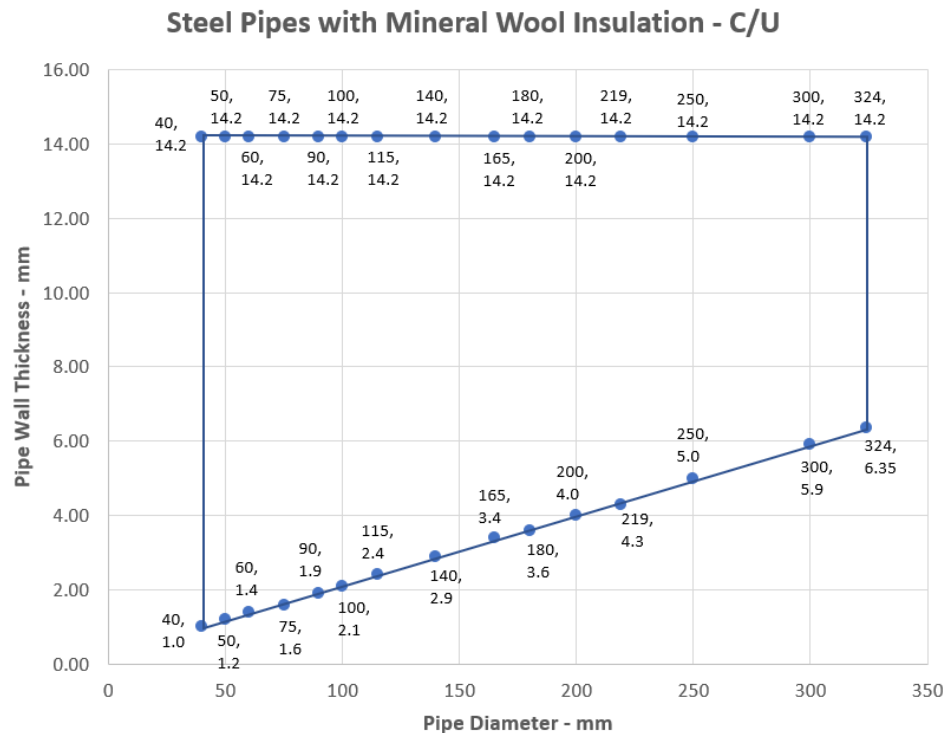
Construction details:



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



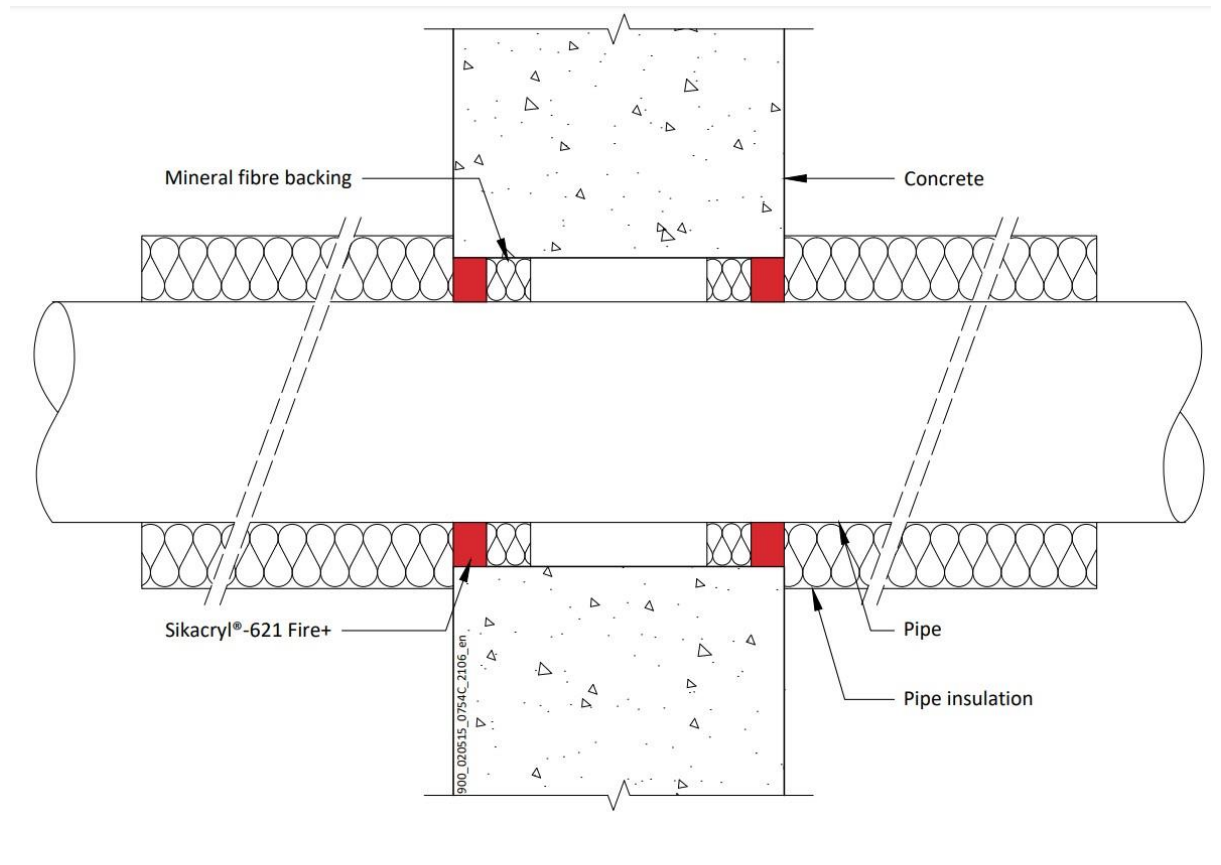
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A.1.6 Double side penetration seal with metallic pipes

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:



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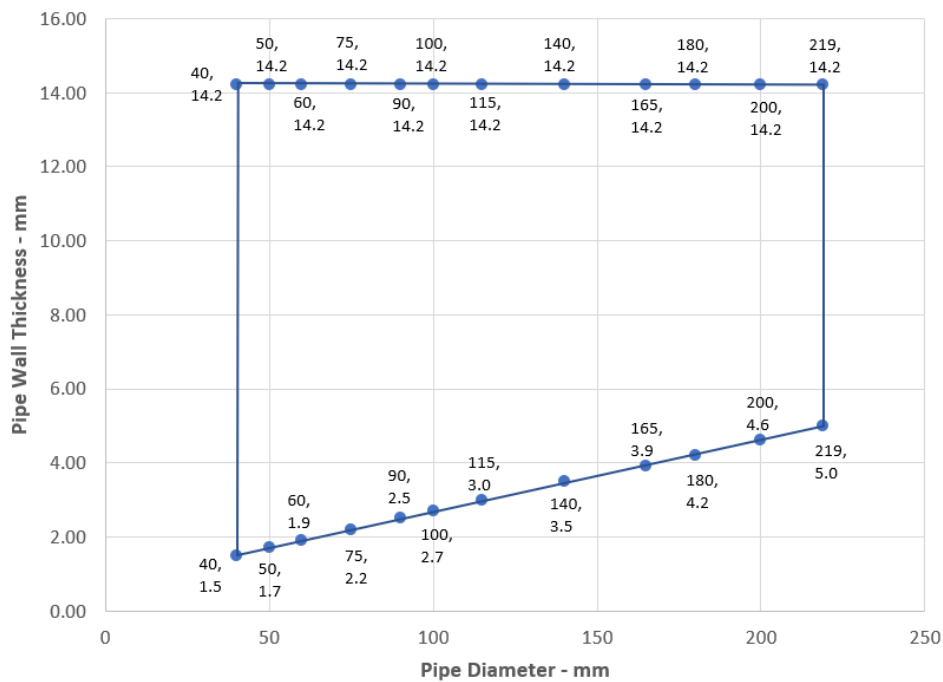
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A.1.6.1

| 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* | | | |
| 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* | | 30 mm Stone wool insulation 80 kg/m ³ | E 240, EI 120 C/U |
| 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



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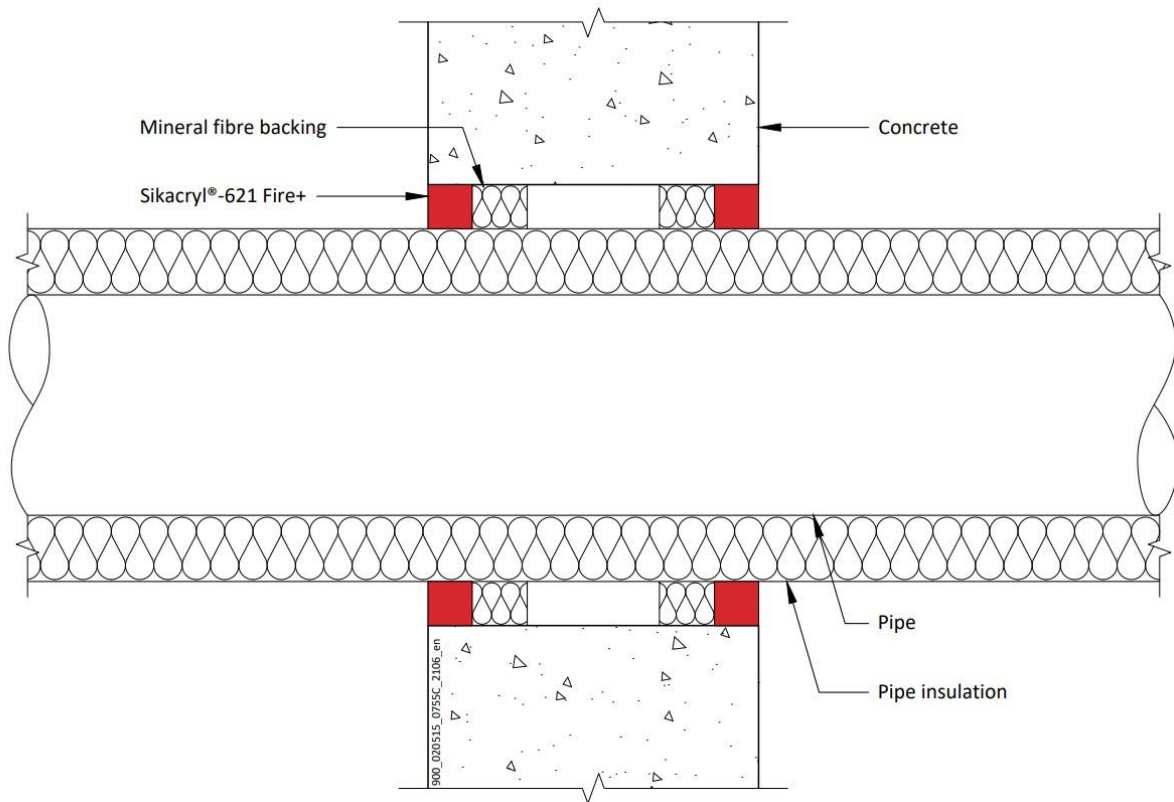
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A.1.7 Double side penetration seal with metallic pipes

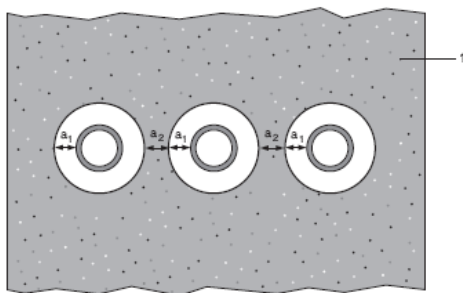
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 504 mm \varnothing

Construction details:



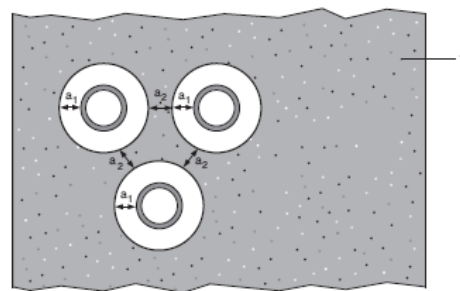
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

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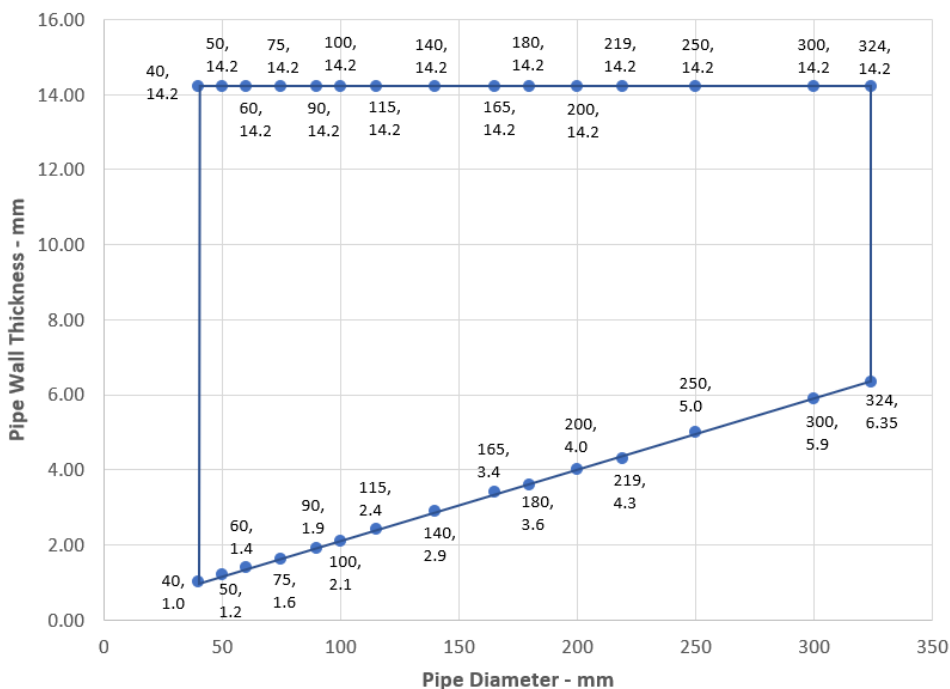
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A.1.7.1 Double side penetration seal with pipes

| 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



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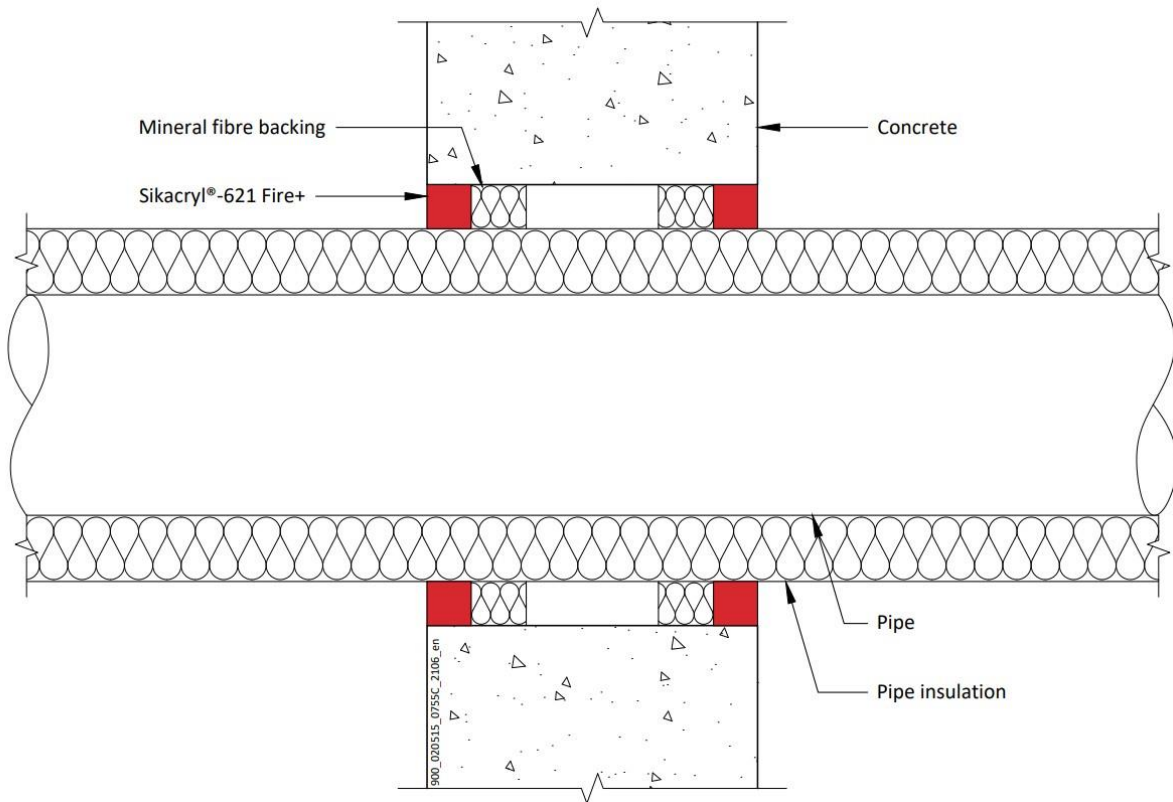
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A.1.8 Double side penetration seal with metallic pipes with combustible insulation

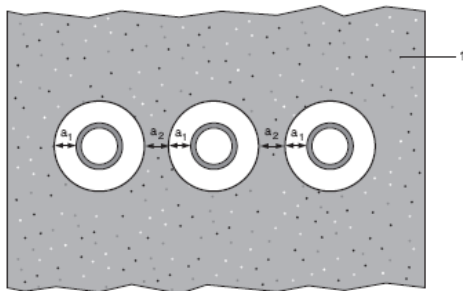
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 300 mm \varnothing

Construction details:



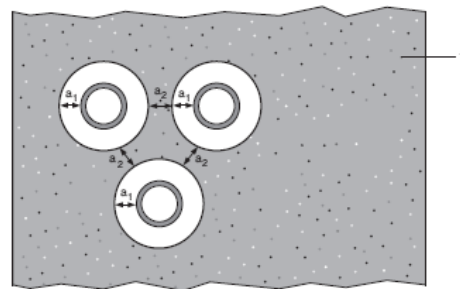
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

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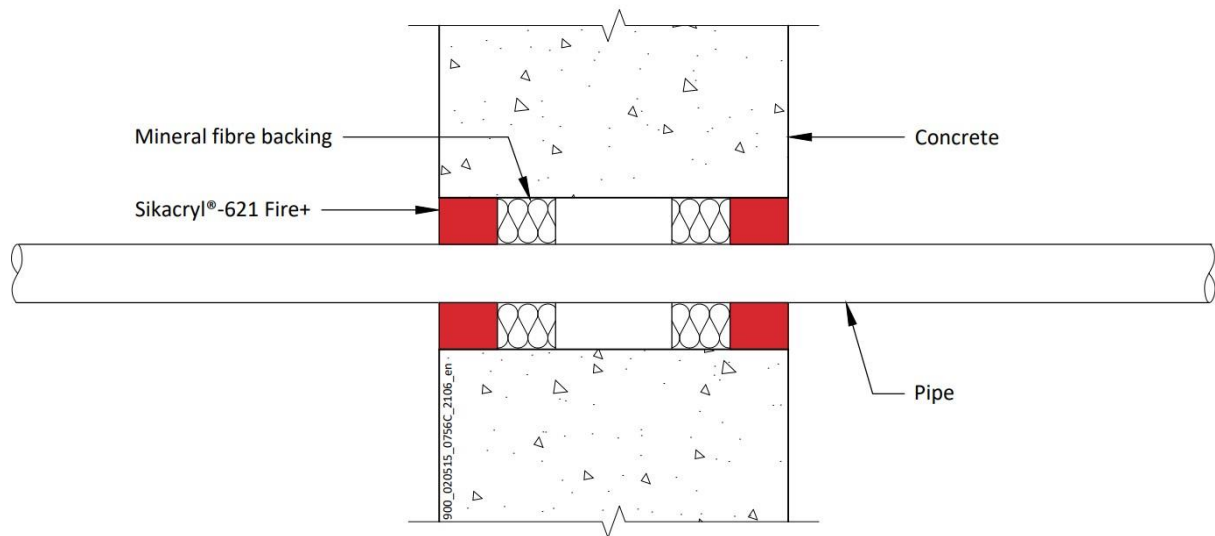
A.1.8.1 Double side penetration seal with metallic pipes with combustible insulation

| 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

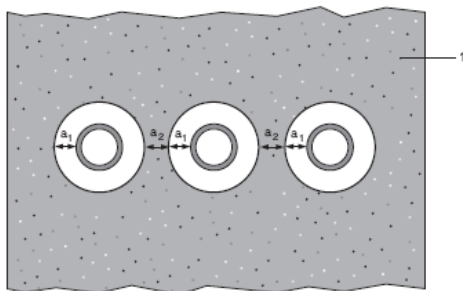
Penetration Seal: Plastic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 300 mm Ø

Construction details:



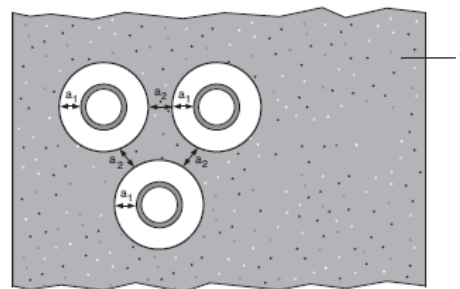
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

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A.1.9.1 Double side penetration seal with plastic pipes

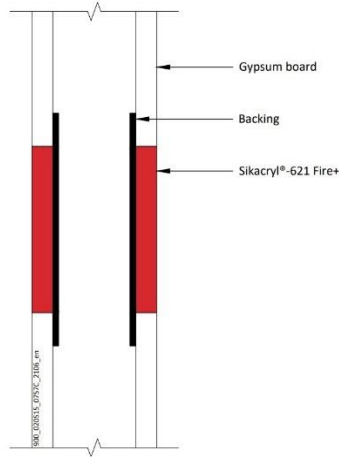
| Pipe material | Size | Classification |
|--|-----------------------------------|-------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1 | 6-32 mm diameter/1.0-2.4 mm wall | EI 240 U/C |
| PP pipe according to EN 1451-1 or DIN 8077/8078 | 32 mm 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 |
| 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 |

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

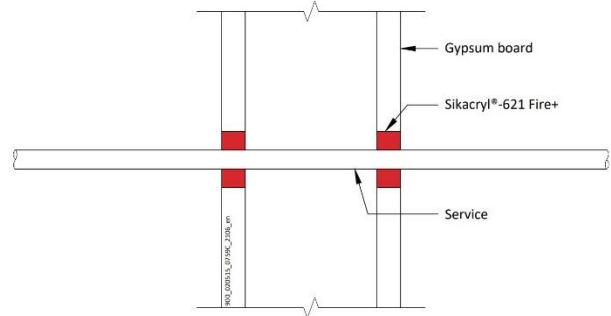
A.2.1 Double side penetration seal with cables

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:



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 | | | |
| 4 mm diameter /0.7-2.0 mm wall | 12.5 mm | None | E 60 C/U, EI 45 C/U |
| 5-22 mm diameter /0.7-11 mm wall* | | | E 60 C/U, EI 30 C/U |
| Mild or stainless steel pipe with minimum 80 kg/m ³ density stone wool insulation Continuous Sustained (CS) | | | |
| 40 mm diameter /1-14.2 mm wall, 20 mm insulation | 12.5 mm | None | E 60 C/U, EI 45 C/U |
| 40-324 mm diameter /1.0-14.2 mm wall, 30 mm insulation* | | | |
| PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1 | | | |
| 6-32 mm \varnothing /1.0-1.8 mm wall, with bundle of cables up to 21 mm diameter* | 12.5 mm | None | E 60 U/C, EI 45 U/C |
| PP pipe according to EN 1451-1 or DIN 8077/8078 | | | |
| 20 mm \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 | | | |
| 20 mm \varnothing /2.0 mm wall | 12.5 mm | None | EI 45 U/C |
| 21-32 mm \varnothing /2.0-3.0 mm wall* | | | EI 30 U/C |
| 21-32 mm \varnothing /2.0-3.0 mm wall, with bundle of cables up to 21 mm* diameter | | | E 45 U/C, EI 30 U/C |

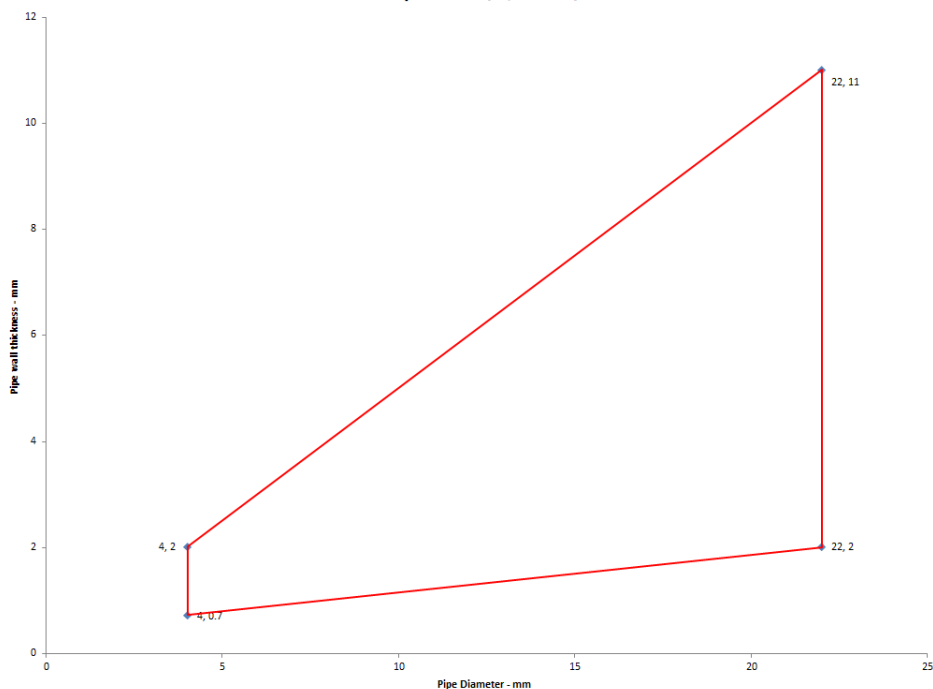
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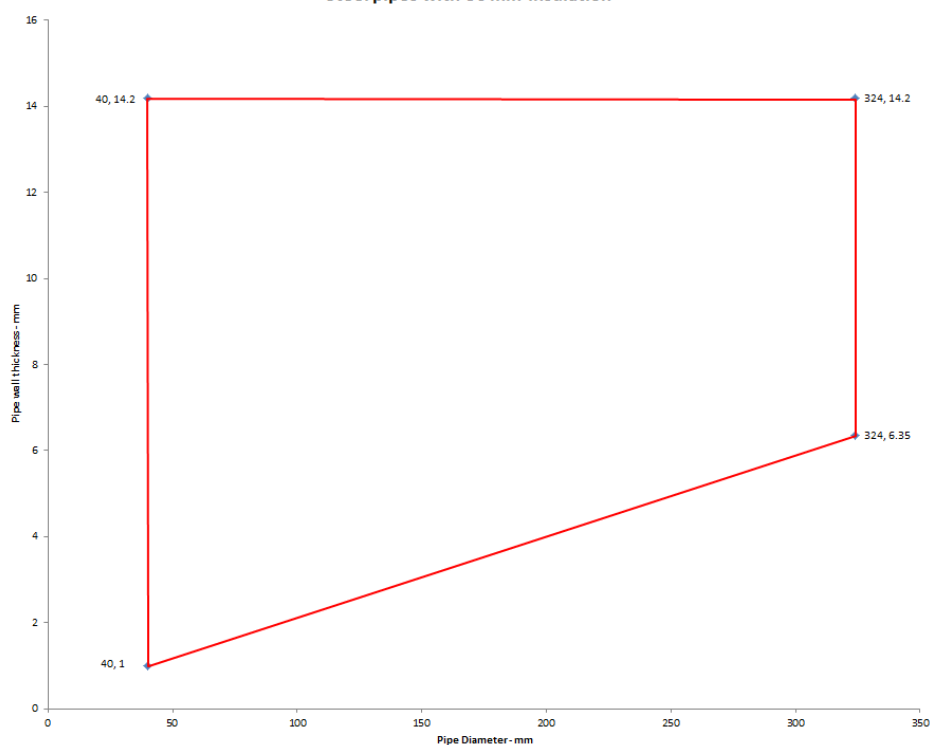
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* See below graphs for interpolated pipe sizes

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



Steel pipes with 30 mm Insulation



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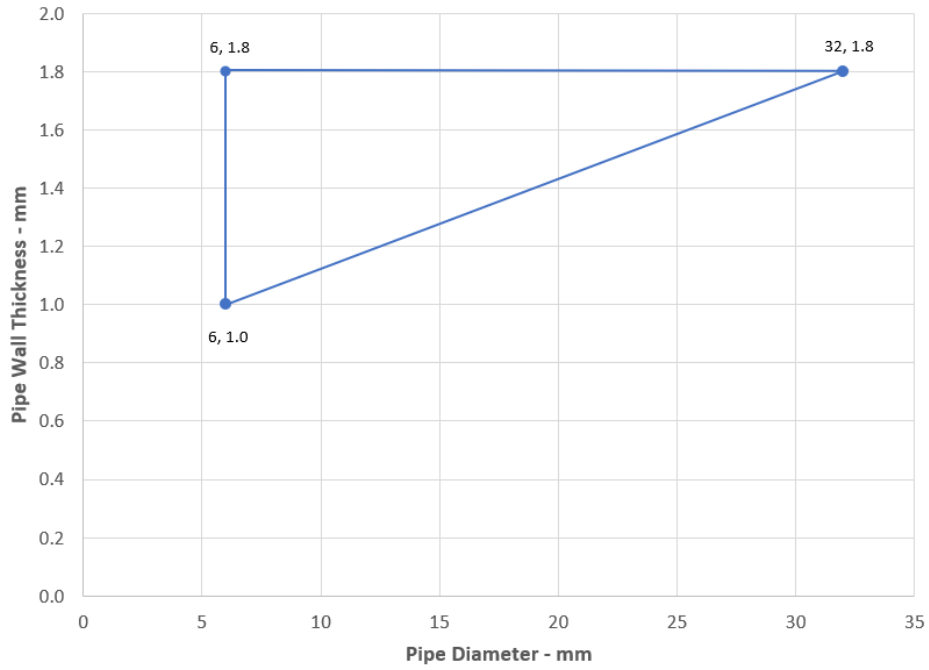
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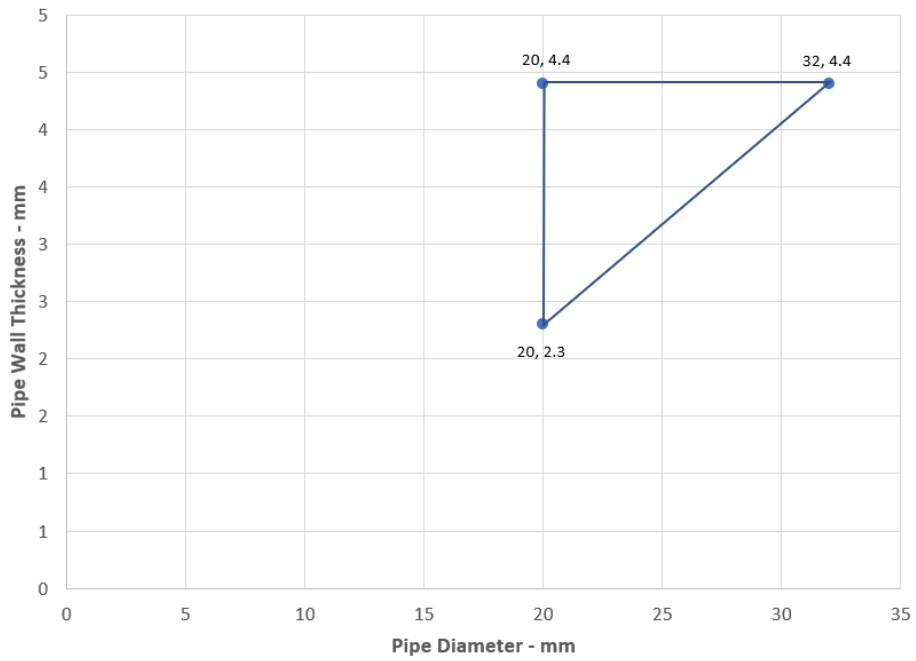
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PVC-U Pipes - U/C



PP Pipes - EI 30 U/C

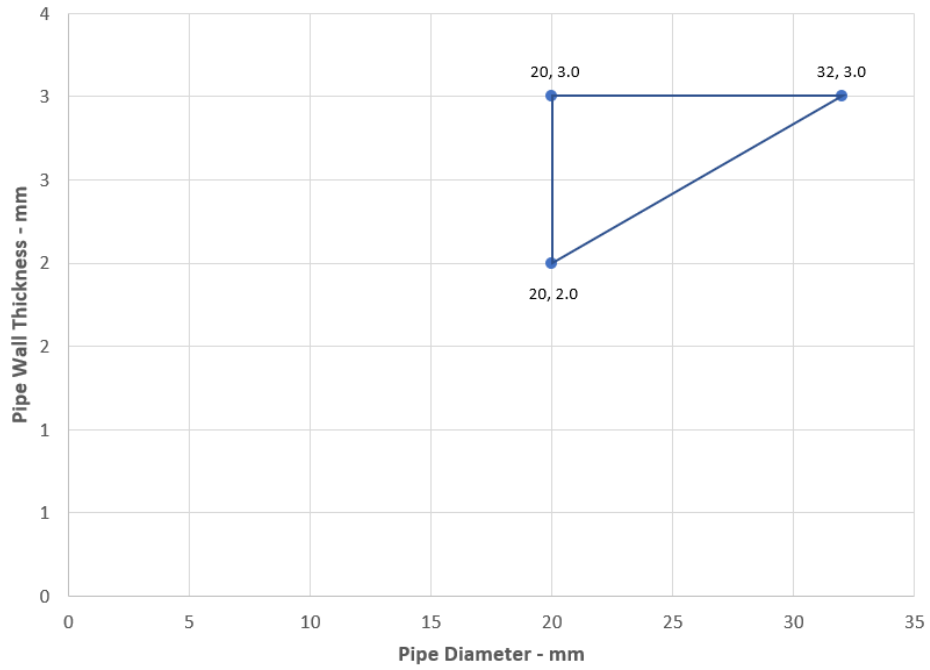


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PE Pipes - EI 30 U/C



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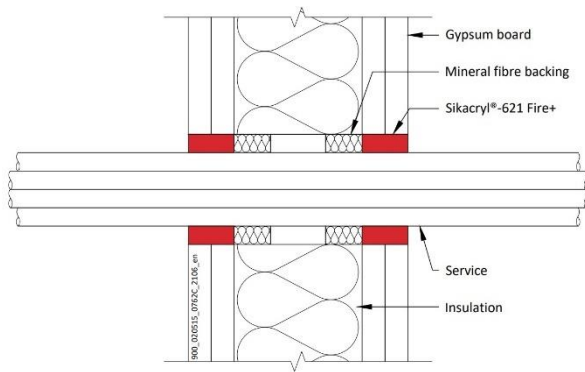


A.3 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 100 mm

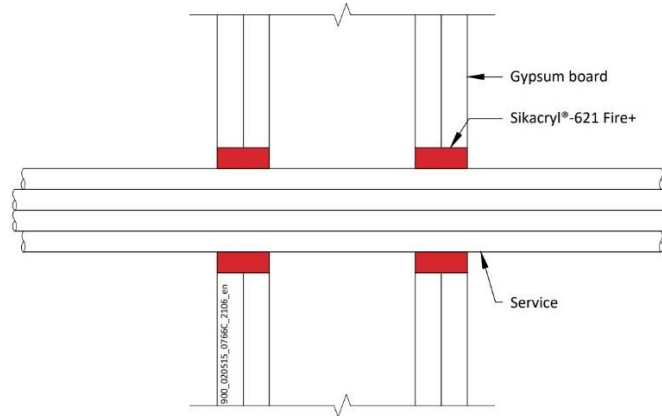
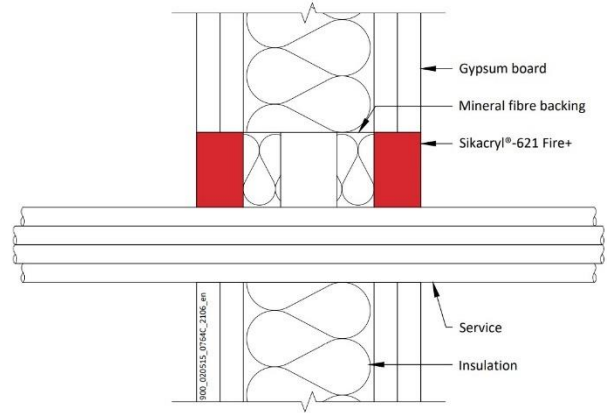
A.3.1 Double side penetration seal with cables

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

Construction details:



Construction details:



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 mineral fibre | | 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 |

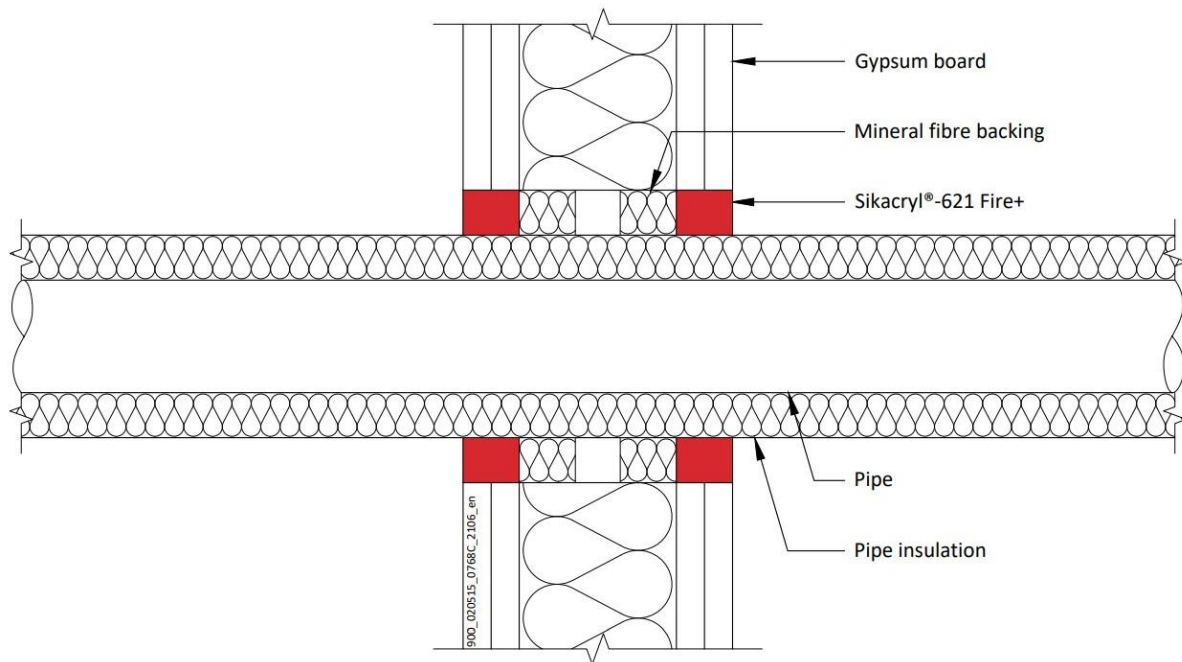
* Or 30 mm wide x 3000 mm high for cables up to 21 mm Ø

| 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 |

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 mineral fibre', 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 mineral fibre | | 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* | | | | |

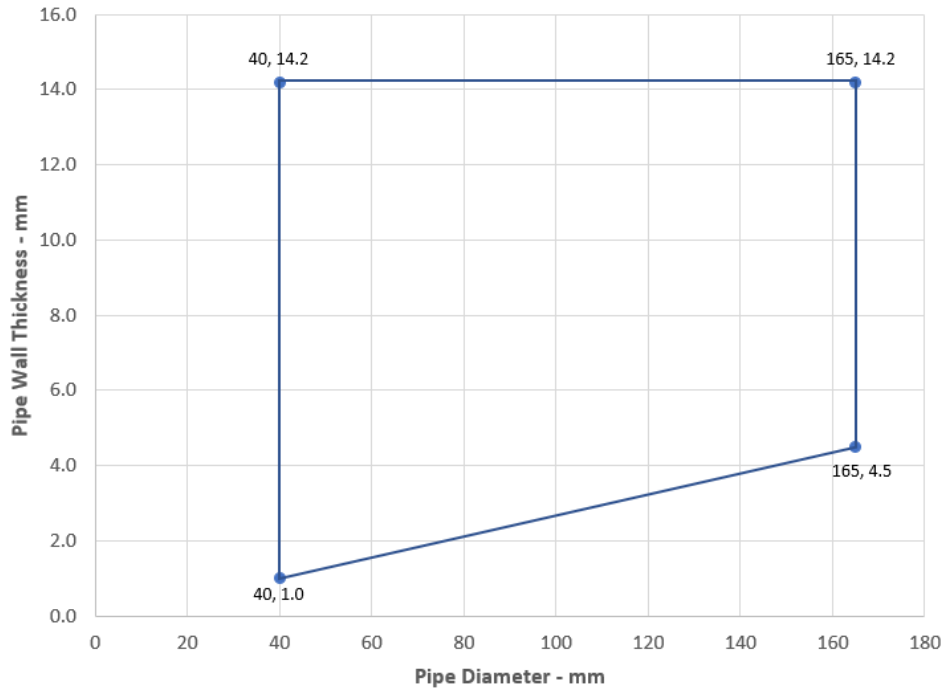
* Typical pipe diameters shown, see below graph for intermediate sizes

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Steel Pipes with Elastomeric Insulation - C/U



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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 mineral fibre | 9 mm Elastomeric insulation minimum class B-s3,d0 | EI 120 C/C |
| 12-54 mm diameter/1-14.2 mm wall* | | | 9-13 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* | | | 13-25 mm Elastomeric insulation minimum class B-s3,d0 | 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 |
| | | | 9 mm Elastomeric insulation minimum class B-s3,d0 | EI 120 C/C |
| 16 mm diameter/2.25 mm wall | 25 mm | 25 mm AES mineral fibre | 9-25 mm Elastomeric insulation minimum class B-s3,d0 | EI 60 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 | | | | |

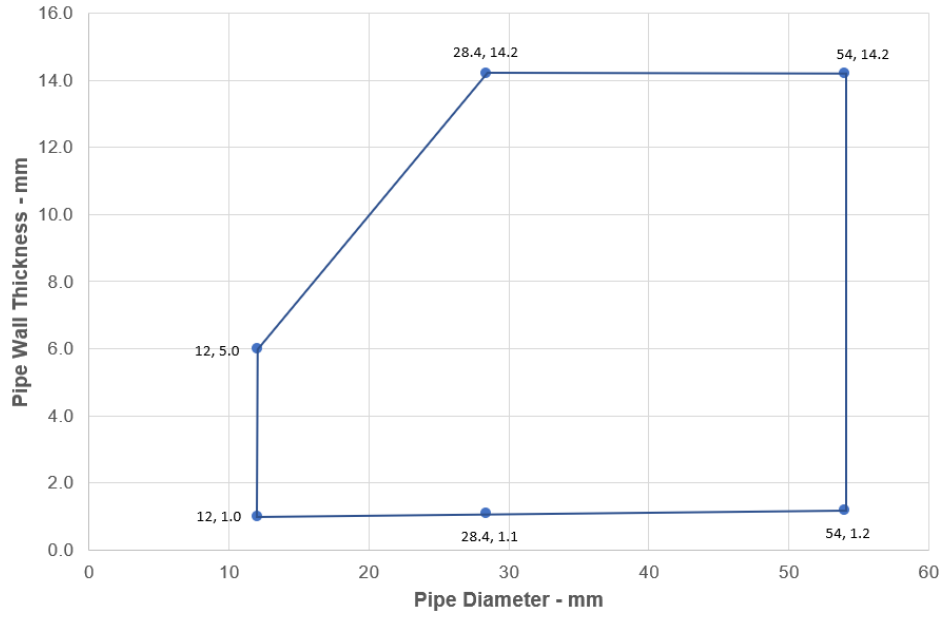
* Typical pipe diameters shown, see below graph for intermediate sizes

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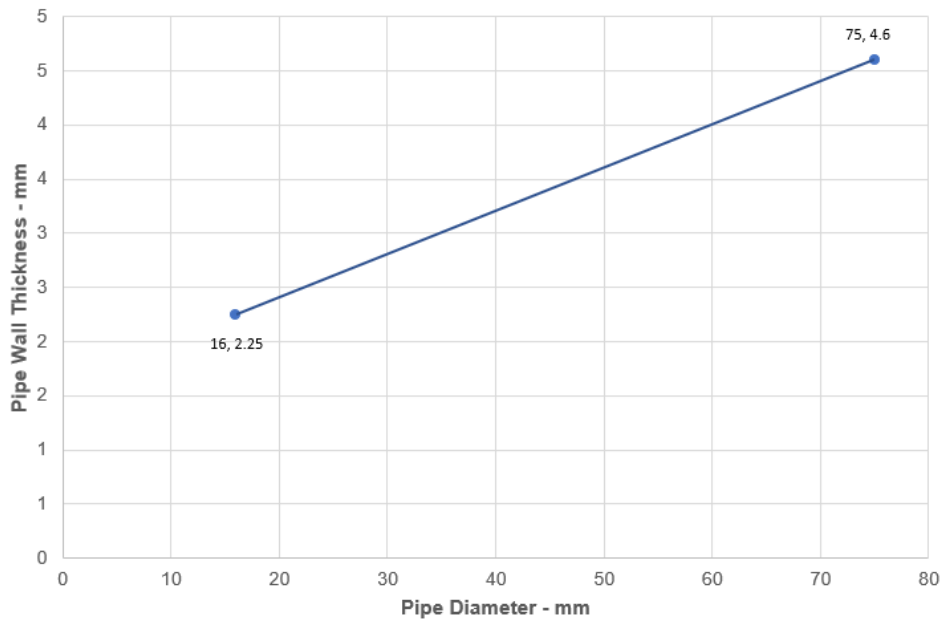
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Copper or Steel Pipes with Elastomeric Insulation - C/C



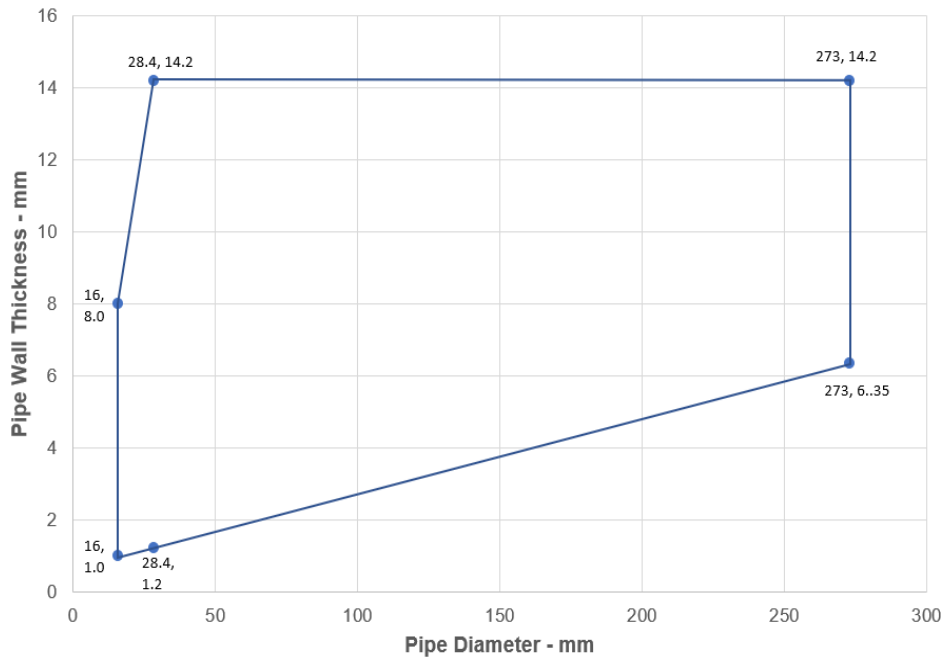
Alupex Pipes with Elastomeric Insulation - C/C



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

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

Steel Pipes with Phenolic Insulation - C/U



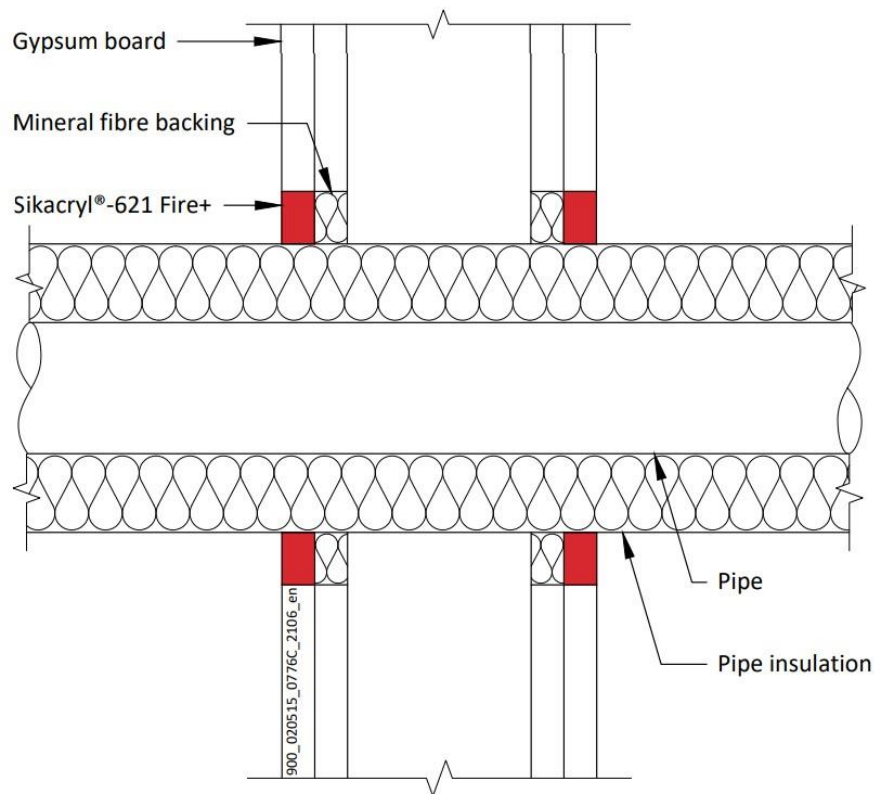
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A.3.3 Double side penetration seal with metallic pipes

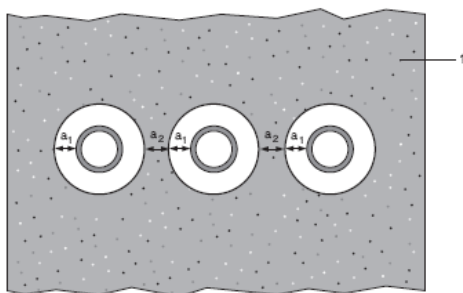
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 12.5 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 12.5 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 504 mm Ø

Construction details:



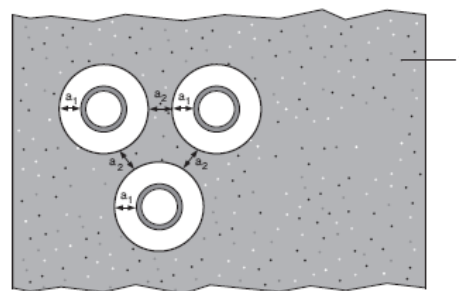
Configuration 1

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

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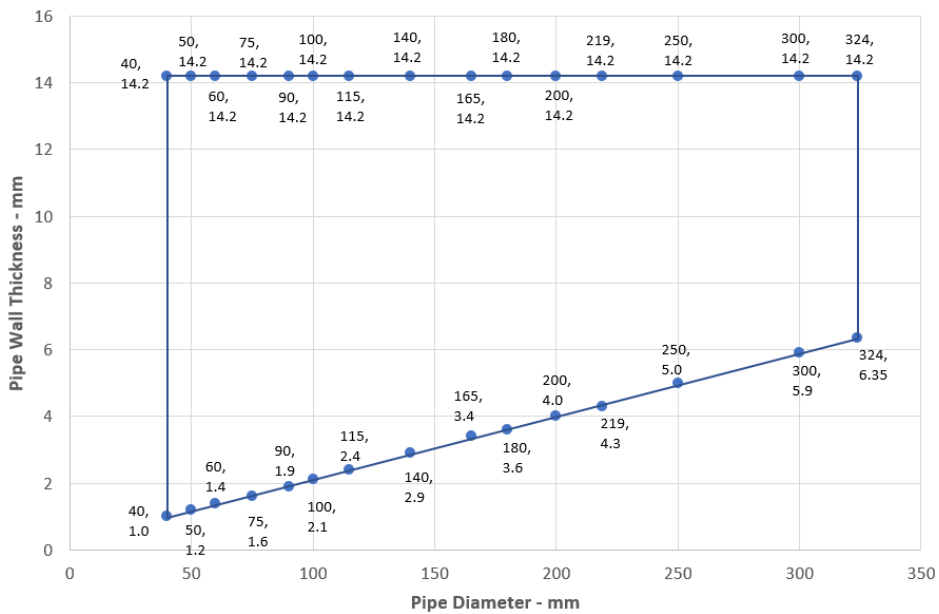
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A.3.3.1 Double side penetration seal with pipes

| 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* | | |

Steel Pipes with Mineral Wool Insulation - C/U



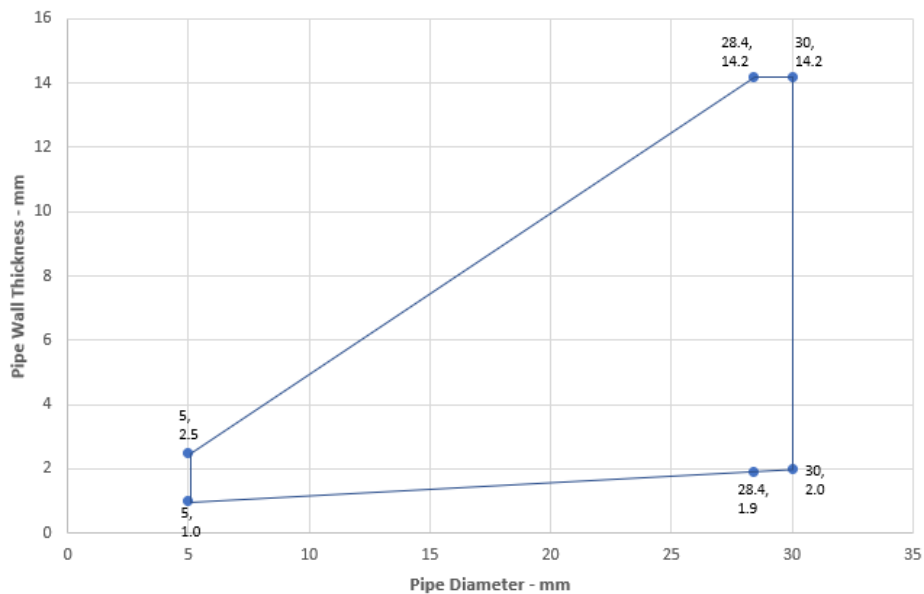
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| Services | Insulation | Classification |
|---|--|----------------------|
| PEX pipe in pipe system | | |
| 15 mm diameter x 2.5 mm wall inner /25mm diameter outer | None | EI 120 C/C |
| Alupex pipe | | |
| 16-20 mm diameter/2.0 mm wall | None | 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 |
| 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 |

* See below graphs for interpolated pipe sizes

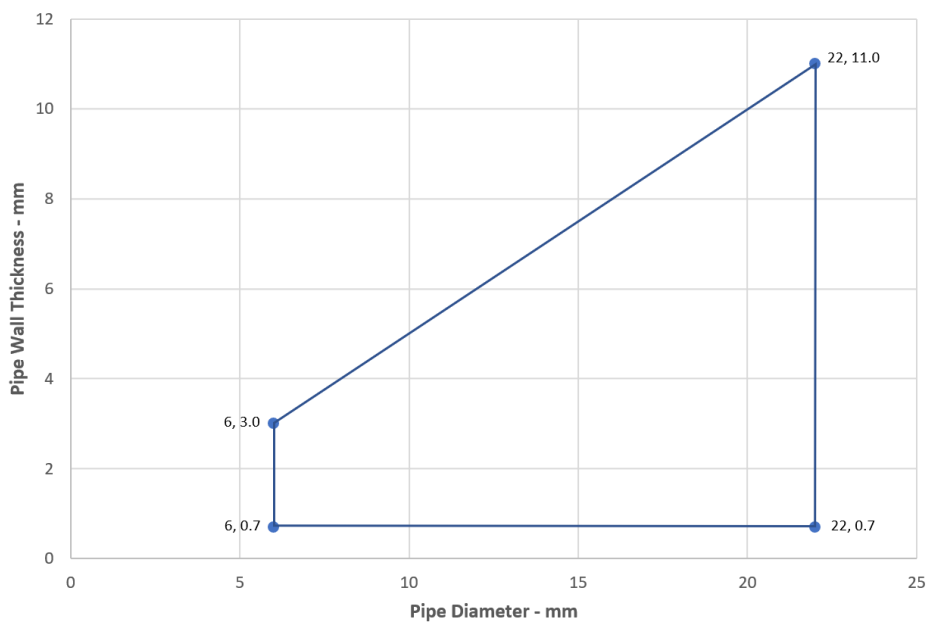
Steel Pipes - C/C



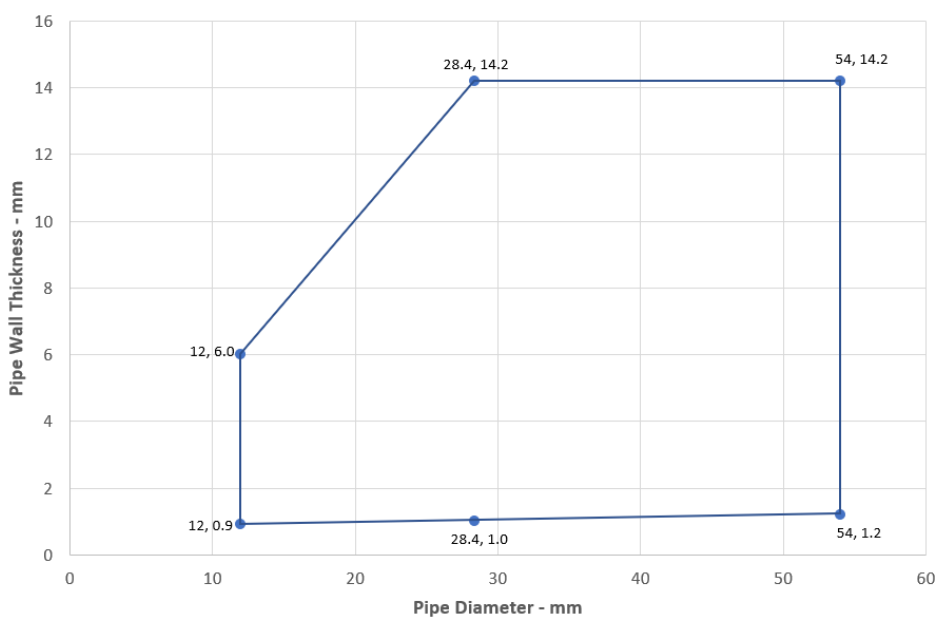
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Copper or Steel Pipes - C/C



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



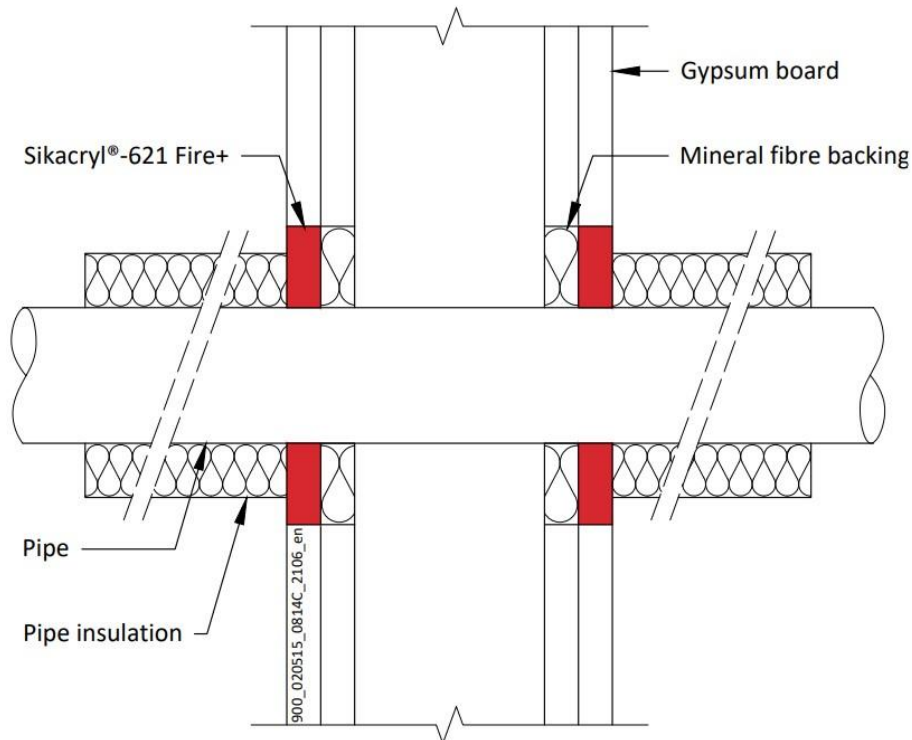
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A.3.4 Double side penetration seal with composite pipes

Penetration Seal: CI (Continuous Interrupted) or CS (Continuous Sustained) 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:



A.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 | | | | |

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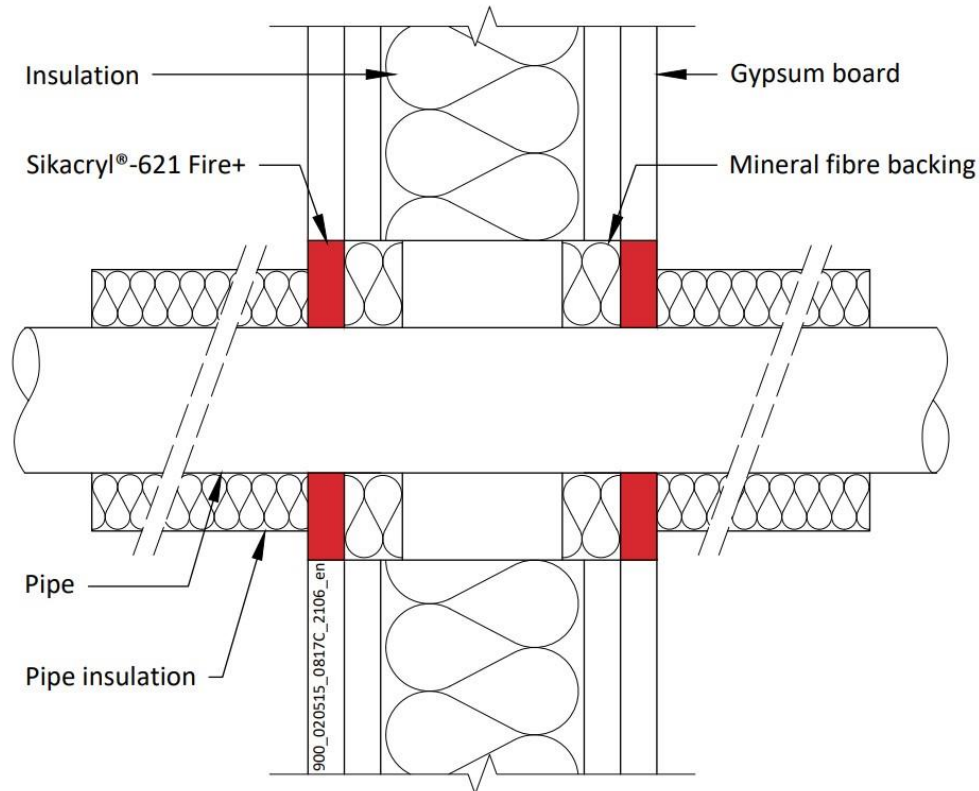
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A.3.5 Double side penetration seal with metallic (and composite) pipes

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 mineral fibre'.

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 |
| 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 mineral fibre | EI 60 C/U |

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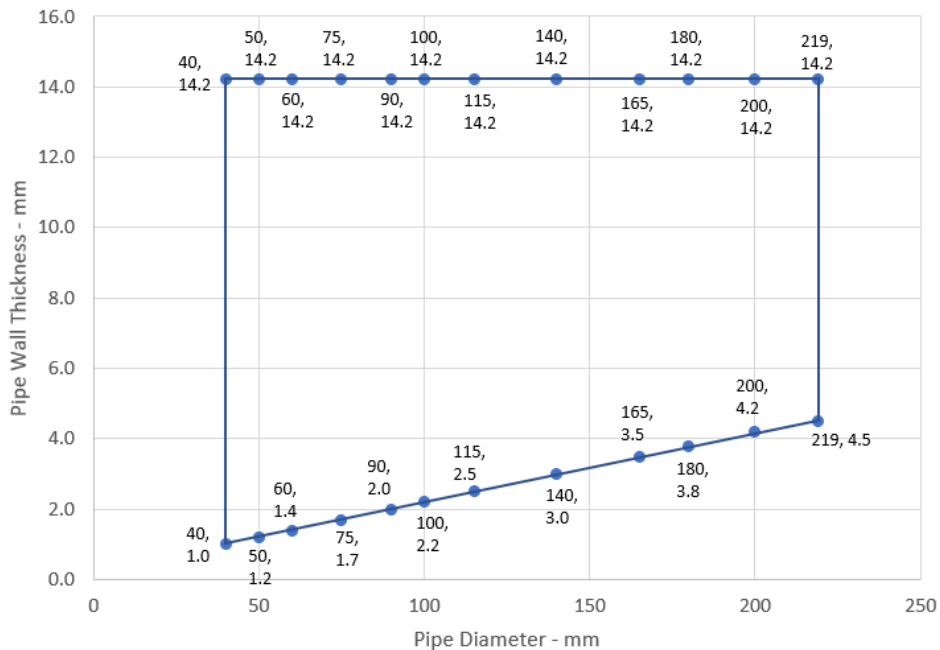
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| Services | Sealant depth | Backing (minimum) | Insulation (minimum) | Classification |
|---|---------------|--------------------------------------|--|----------------------|
| Mild or stainless steel pipe | | | | |
| Maximum aperture size 300 x 300 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* | 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 |
| 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

Steel Pipes with Mineral Wool Insulation - C/U



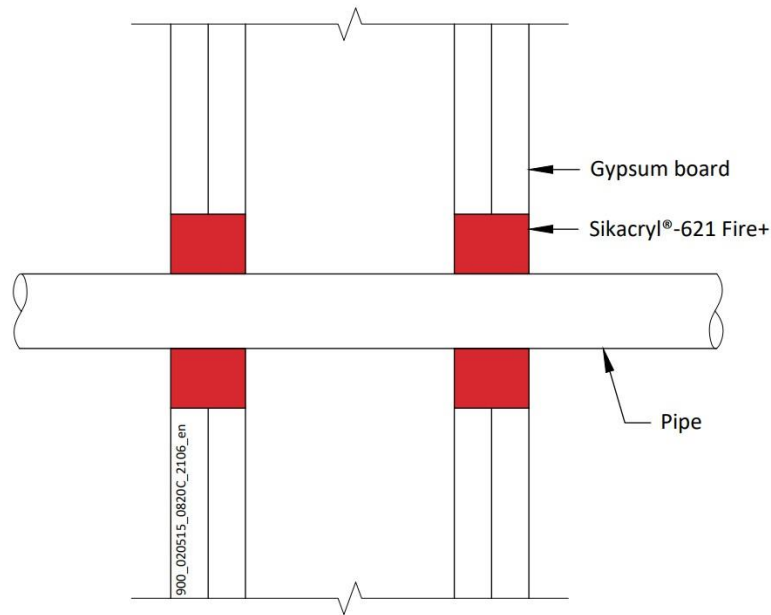
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A.3.6 Double side penetration seal with plastic pipes

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 | | 20-32 mm \varnothing /1.8-4.4 mm wall | 30 mm | EI 60 C/C |
| | | 20 mm \varnothing /2.0 mm wall | 30 mm | EI 120 U/C |
| Uponor Wirsbo PEX pipe in pipe system according to ISO 15875 | | 20-32 mm \varnothing /2.0-3.0 mm wall | 30 mm | EI 90 C/C |
| | 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 | |

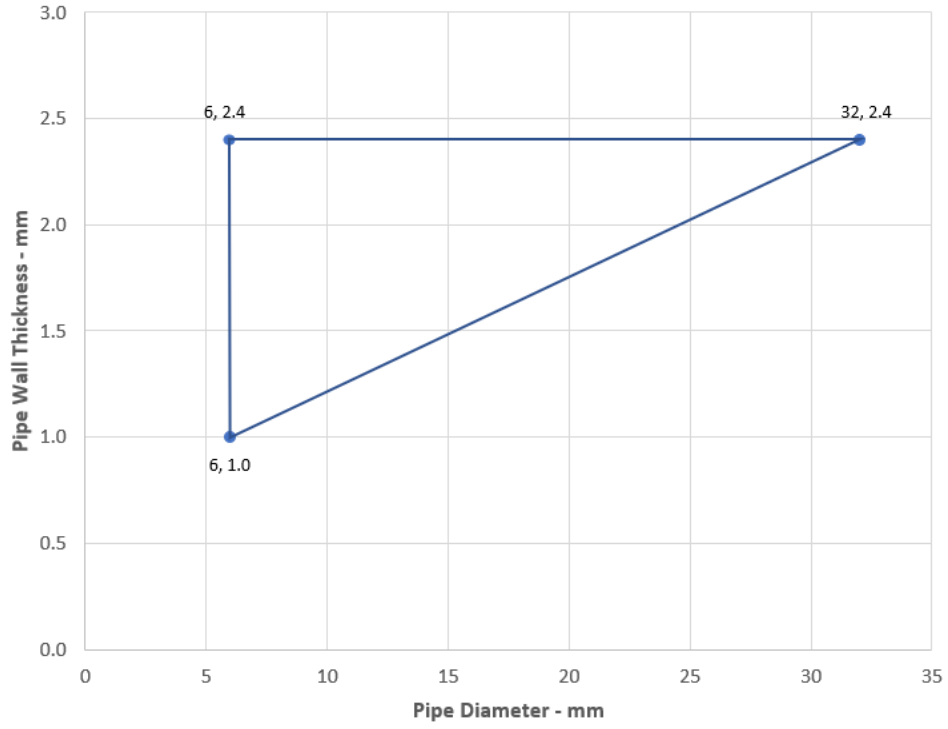
* See below graphs for interpolated pipe sizes

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PVC-U Pipes - U/C



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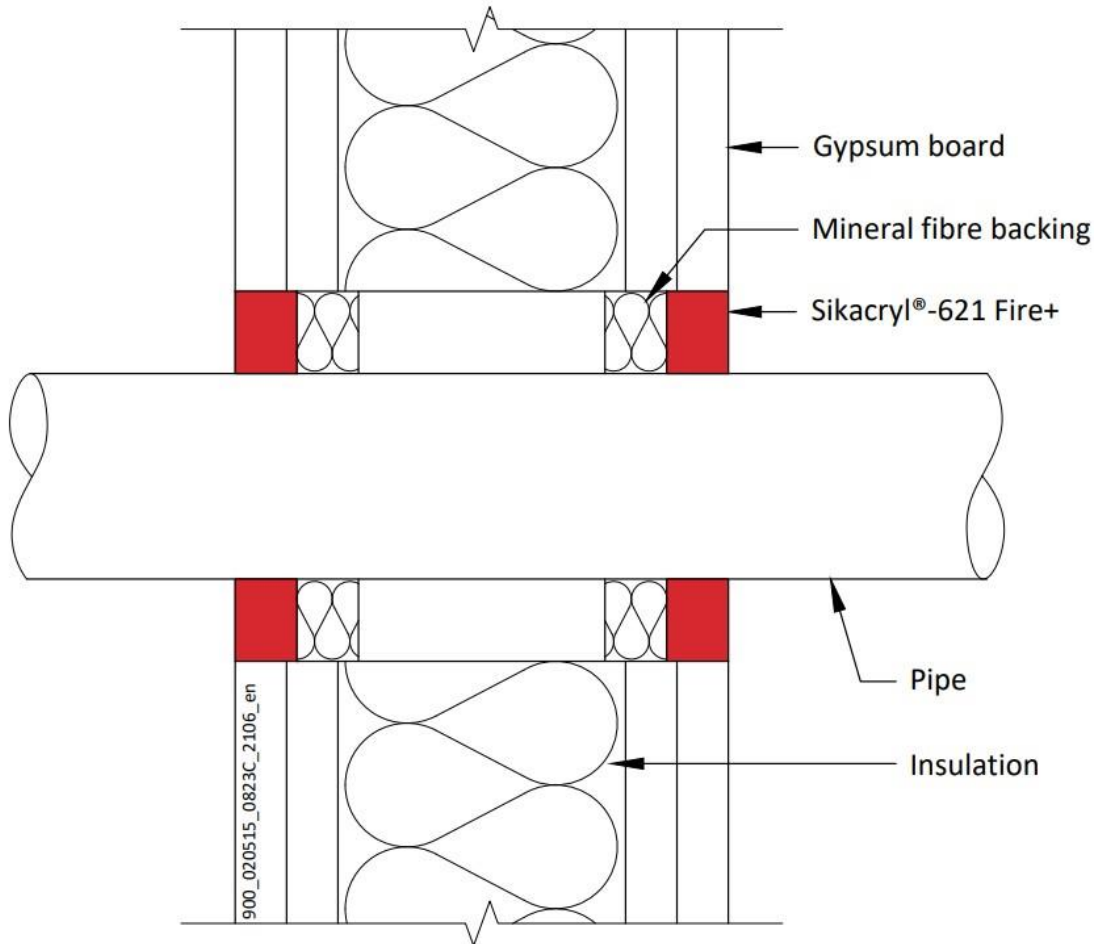


A.4 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 120 mm

A.4.1 Double side penetration seal with cables

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

Construction details:



A.4.1.1

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

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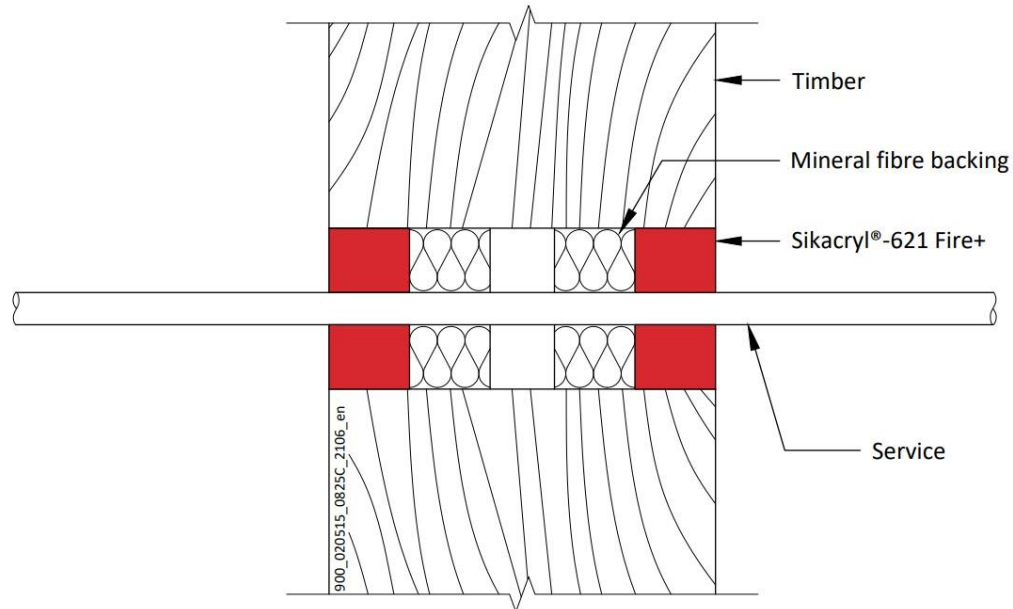
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A.5 Timber wall constructions with wall thickness of minimum 100 mm

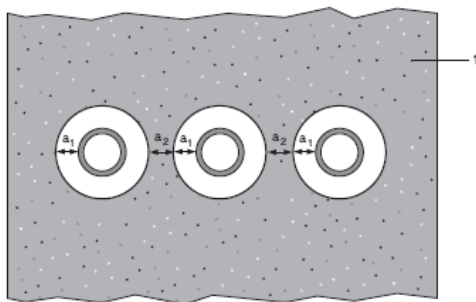
A.5.1 Double side penetration seal with cables

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 |

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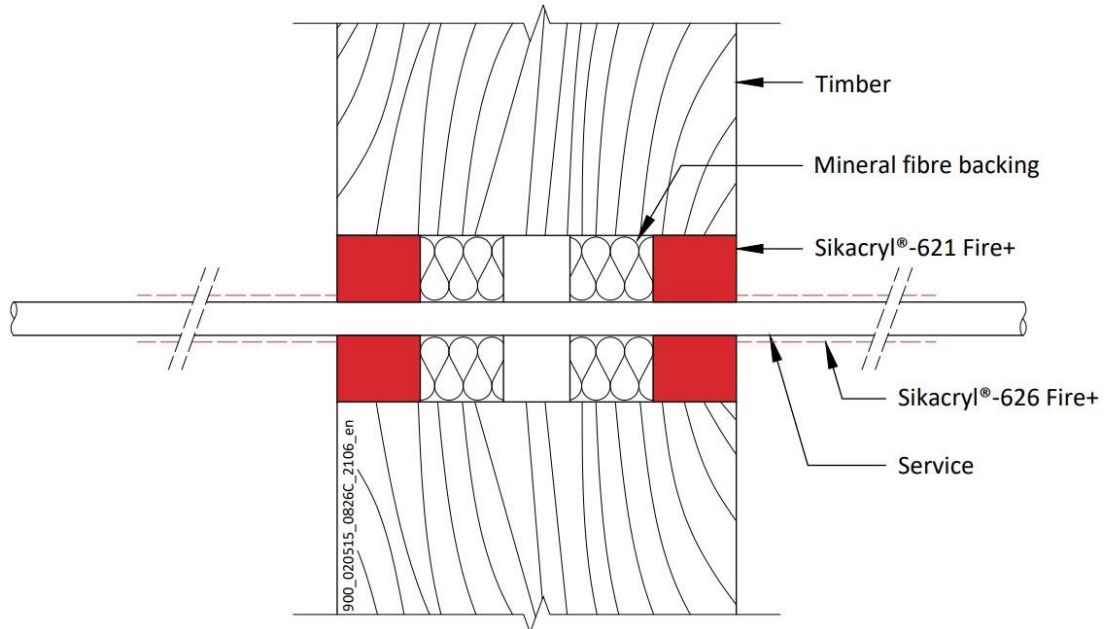
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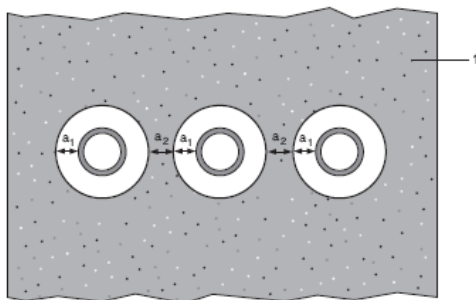
A.5.2 Double side penetration seal with cables and Sikacryl®-626 Fire+

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 |

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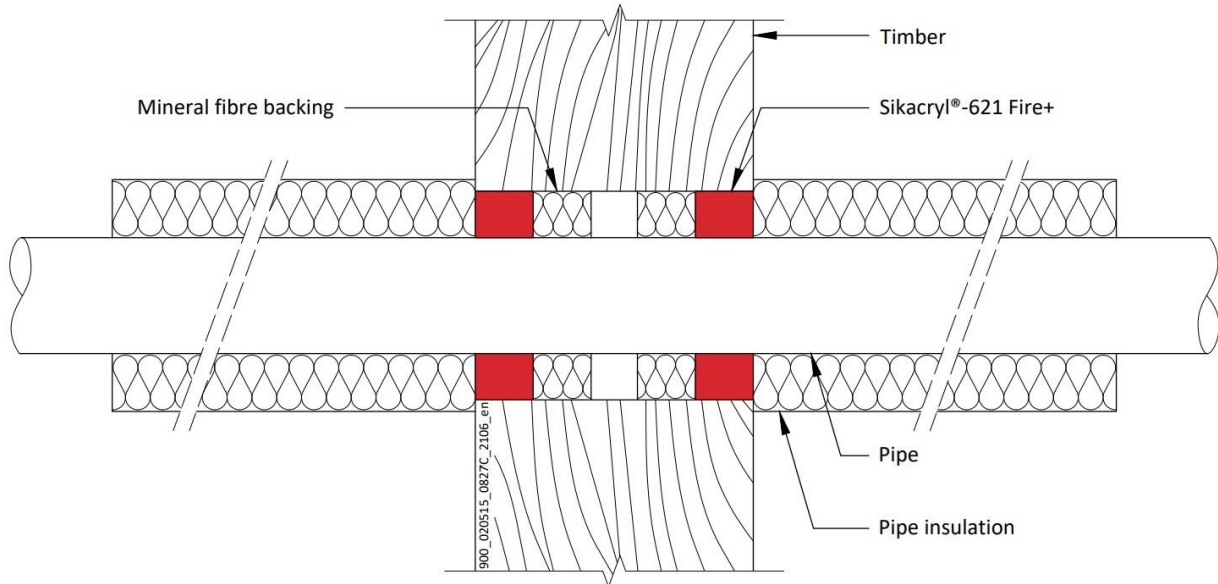
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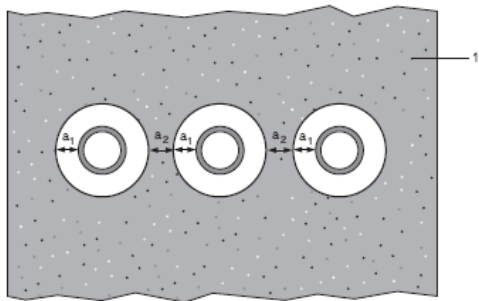
A.5.3 Double side penetration seal with metallic pipes

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

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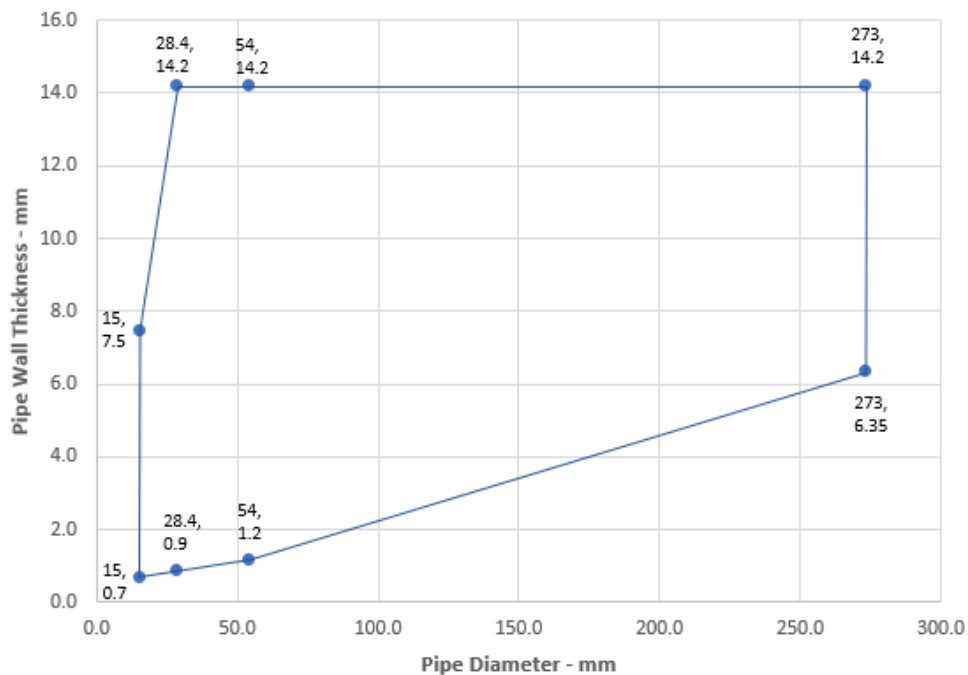
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A.5.3.1

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

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

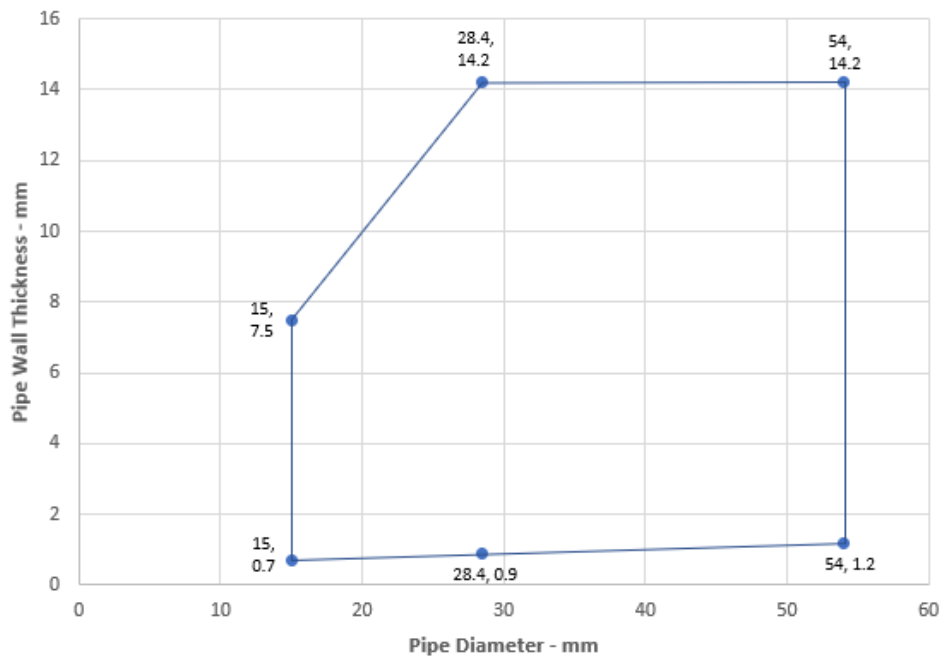
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



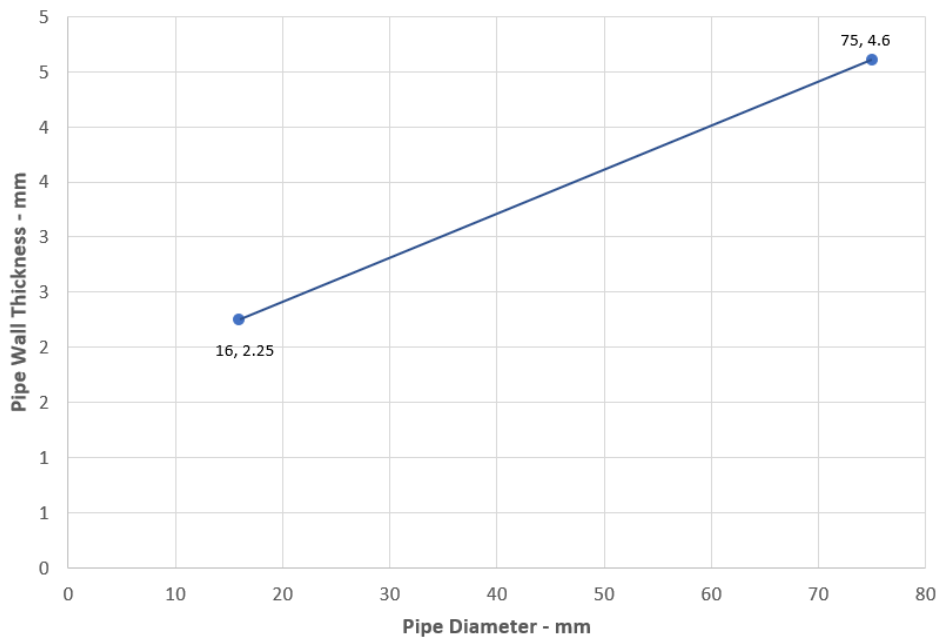
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**Copper or Steel Pipes with Glass Wool or Mineral Wool
Insulation - C/C**



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



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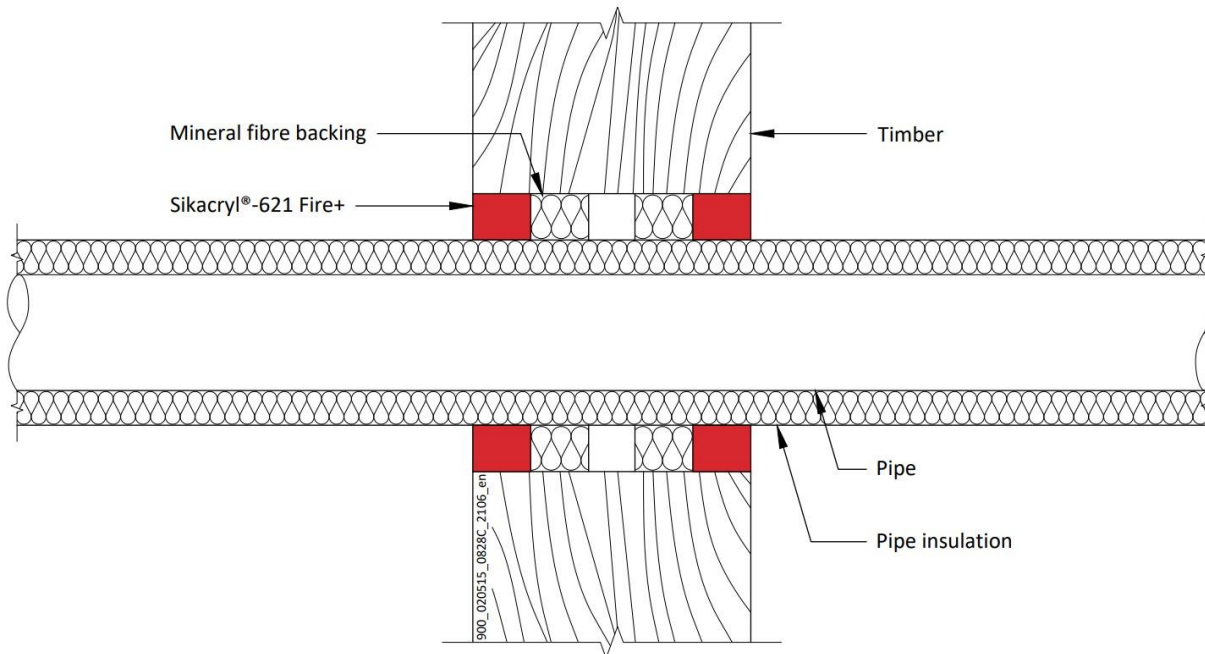
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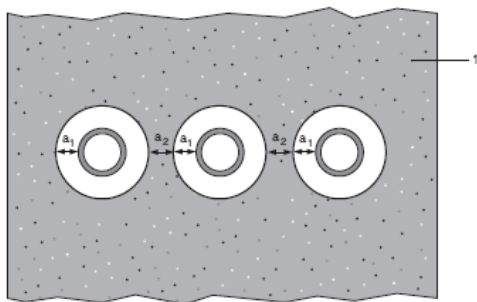
A.5.4 Double side penetration seal with metallic pipes

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

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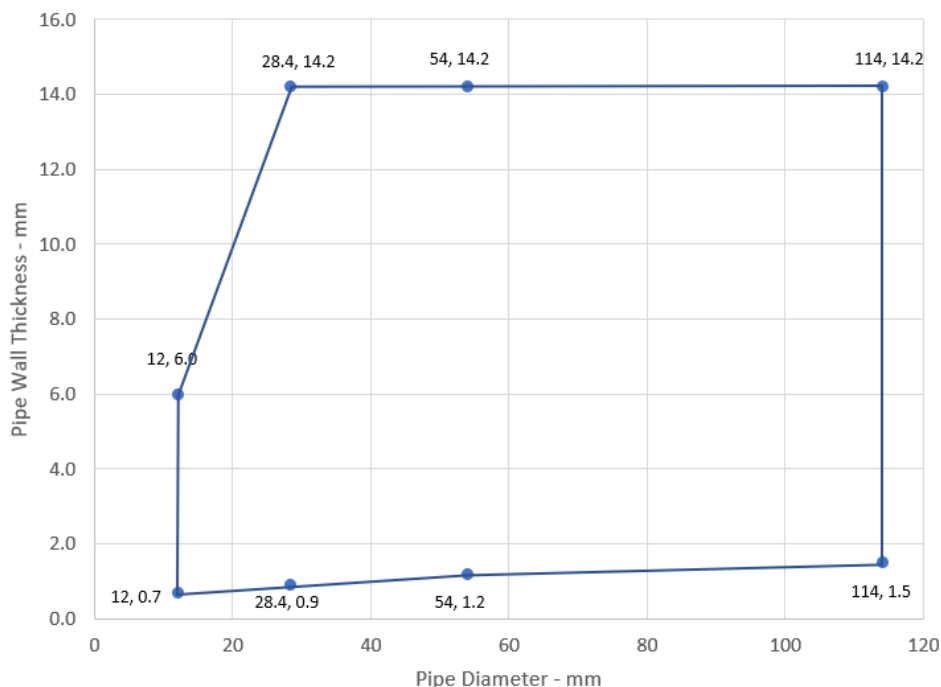
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A.5.4.1

| 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

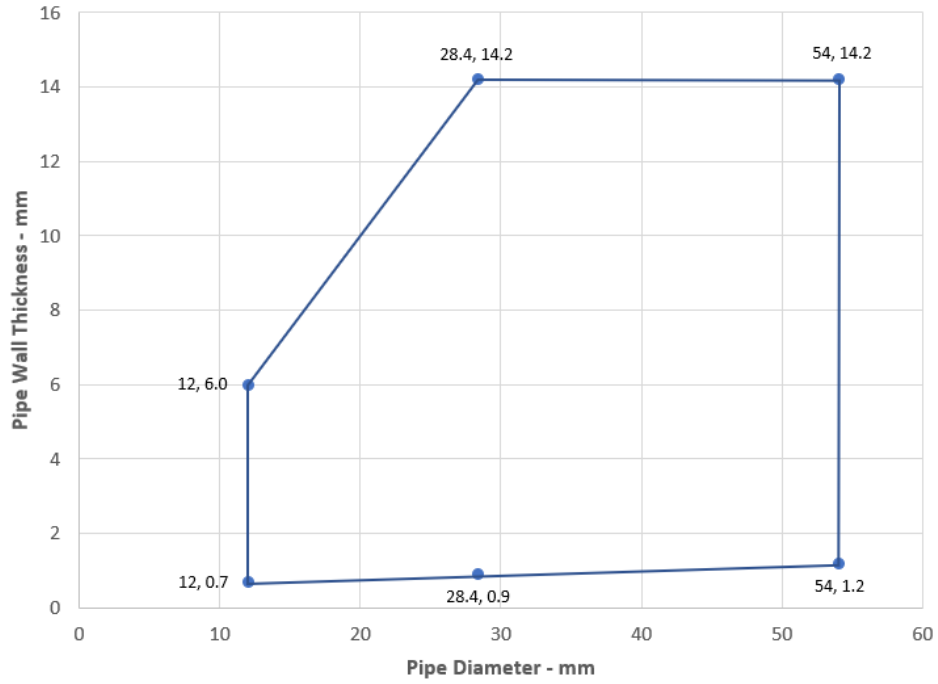


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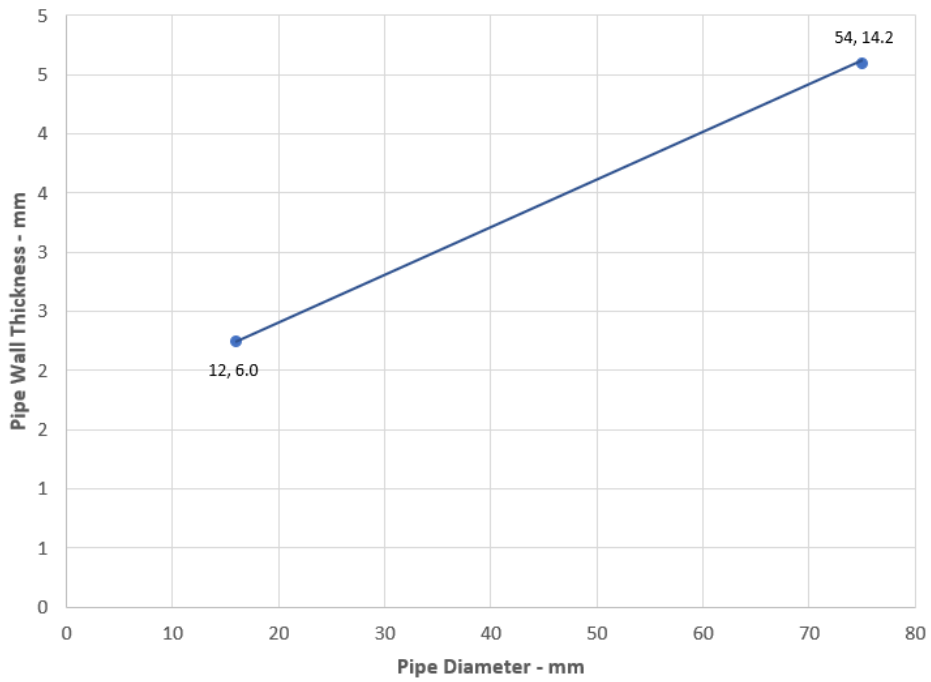
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Copper or Steel Pipes with Elastomeric Insulation - C/C



Alupex Pipes with Elastomeric Insulation - C/C



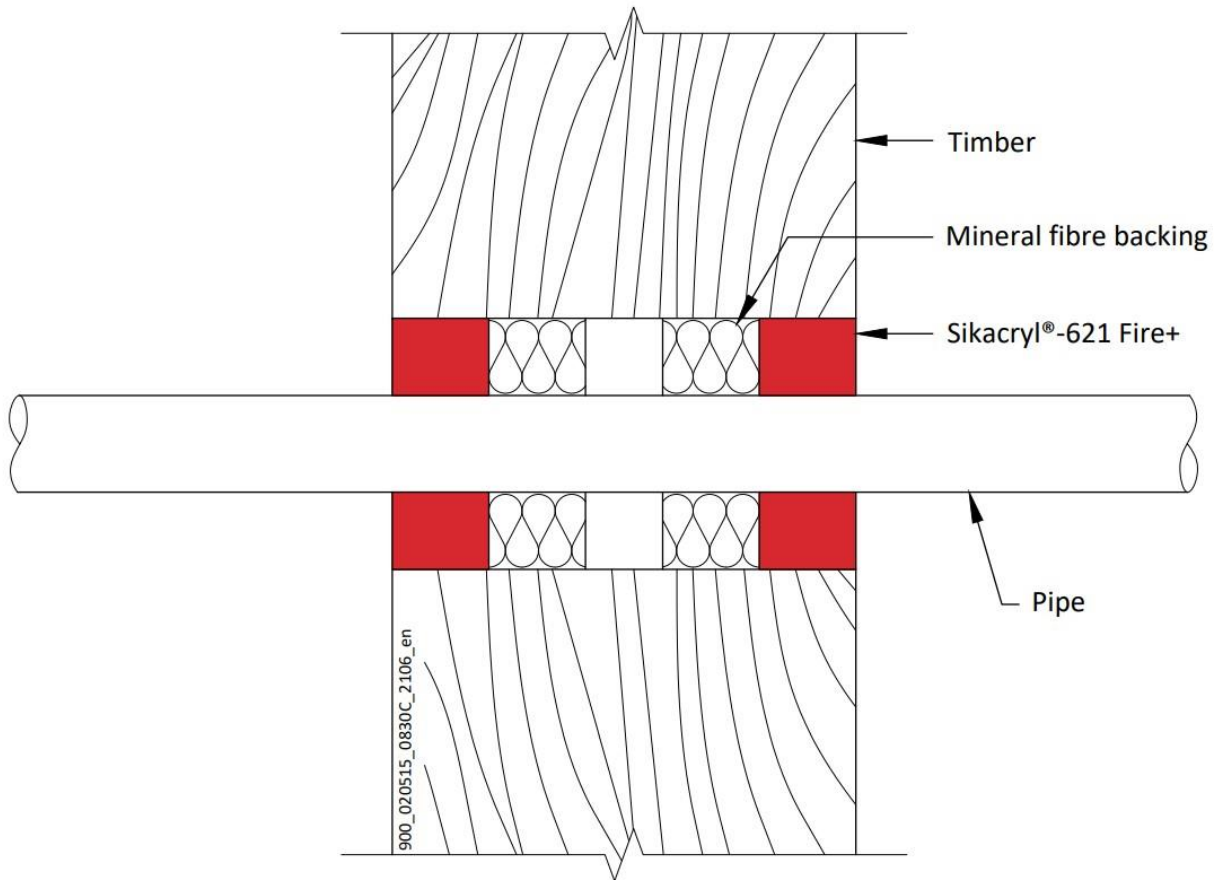
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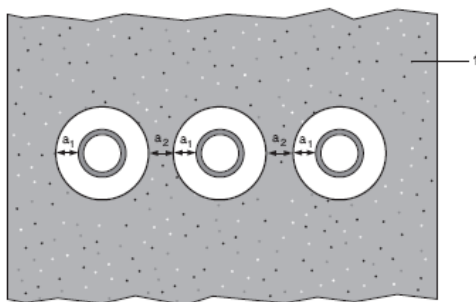
A.5.5 Double side penetration seal with plastic pipes and composite pipes

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

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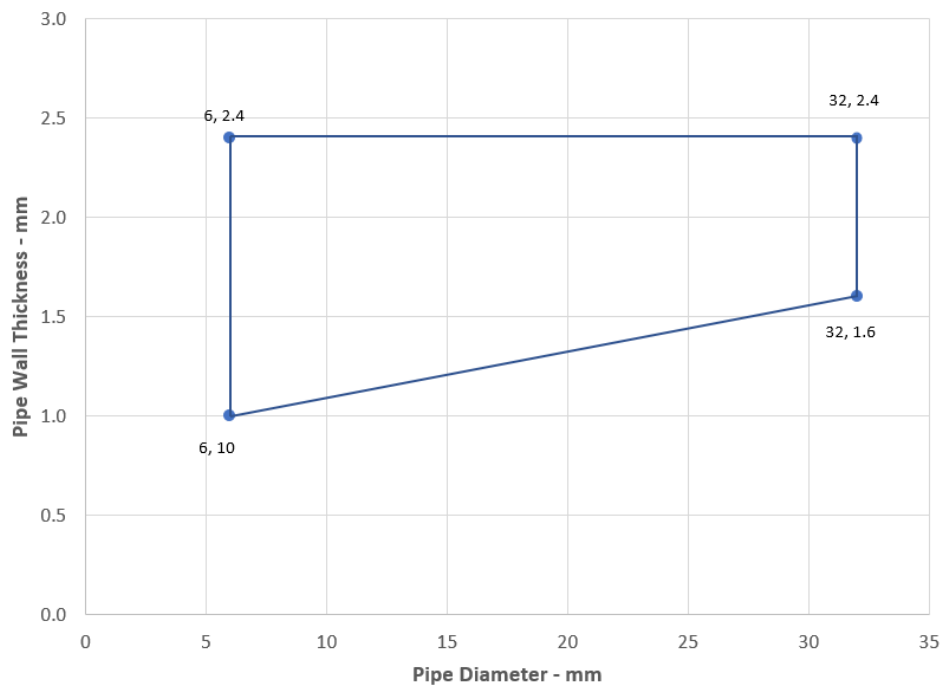
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A.5.5.1

| 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

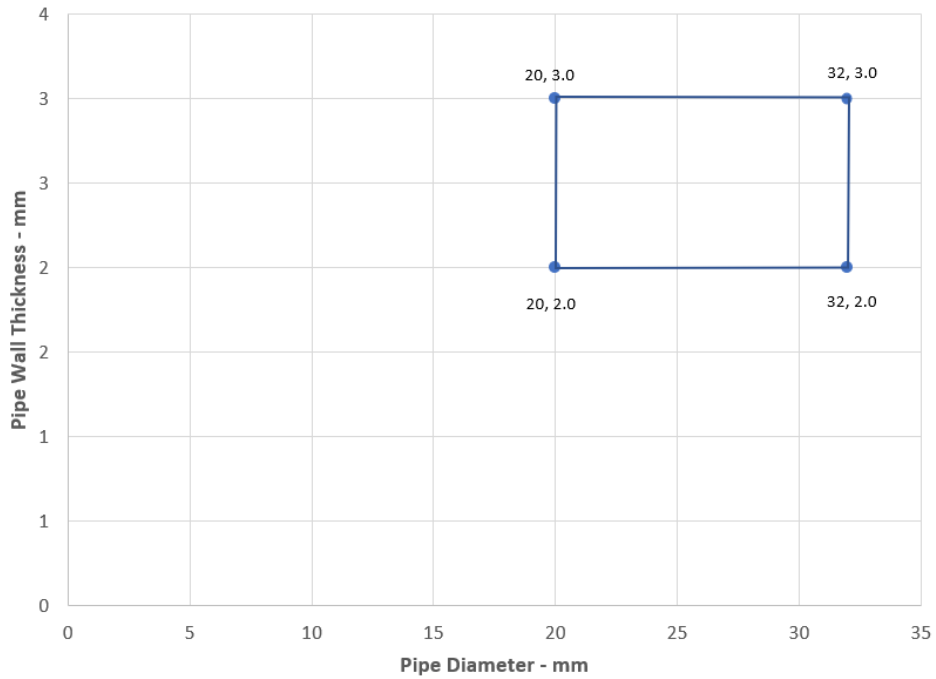
PVC-U Pipes EI 90 - U/C



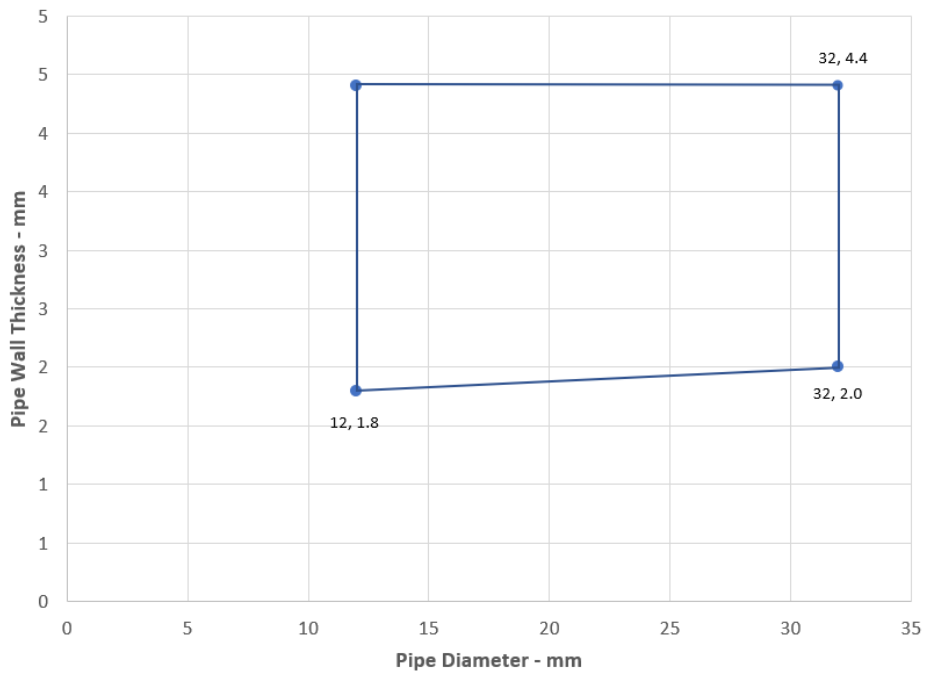
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PE Pipes EI 90 - U/C



PP Pipes EI 90 - U/C



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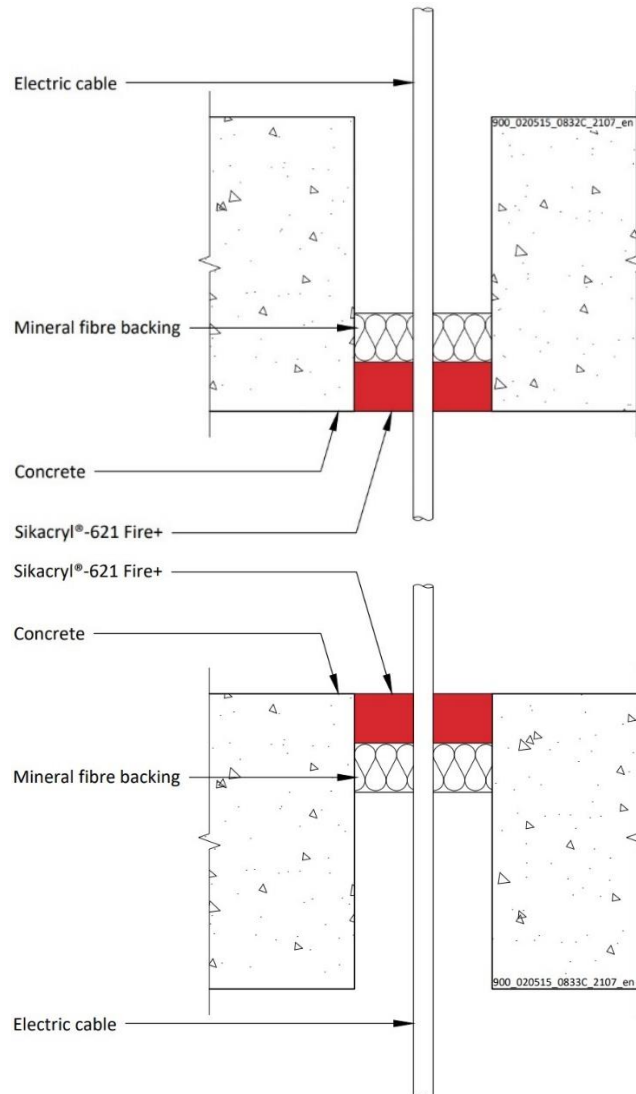


A.6 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

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 mineral fibre'.

Construction details:



A.6.1.1

| Services | Sealant depth | Backing (minimum) | Aperture (maximum) | Classification |
|--|---------------|------------------------------|--------------------------|----------------|
| Single electrical cables up to 21 mm Ø | 25 mm | AES mineral fibre 25 mm deep | 82 mm Ø or 100 x 1000 mm | E 120, EI 60 |

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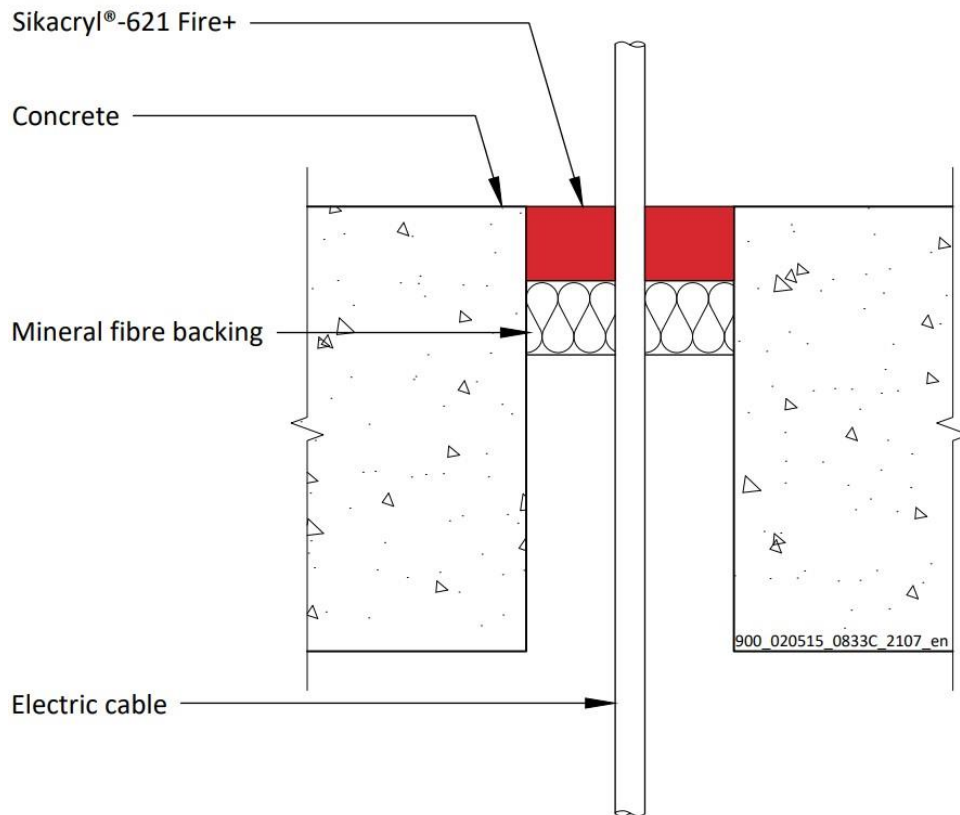
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A.6.2 Single side penetration seal with cables

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 mineral fibre. 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 mineral fibre | | EI 240 | | |
| | | E 120, EI 90 | | |
| Electric cables up to 21 mm diameter, single. | | | | |
| 23-27 mm diameter, 1 mm × 185 mm ² core, PVC sheath and insulation electrical cable, single | | | | EI 240 |

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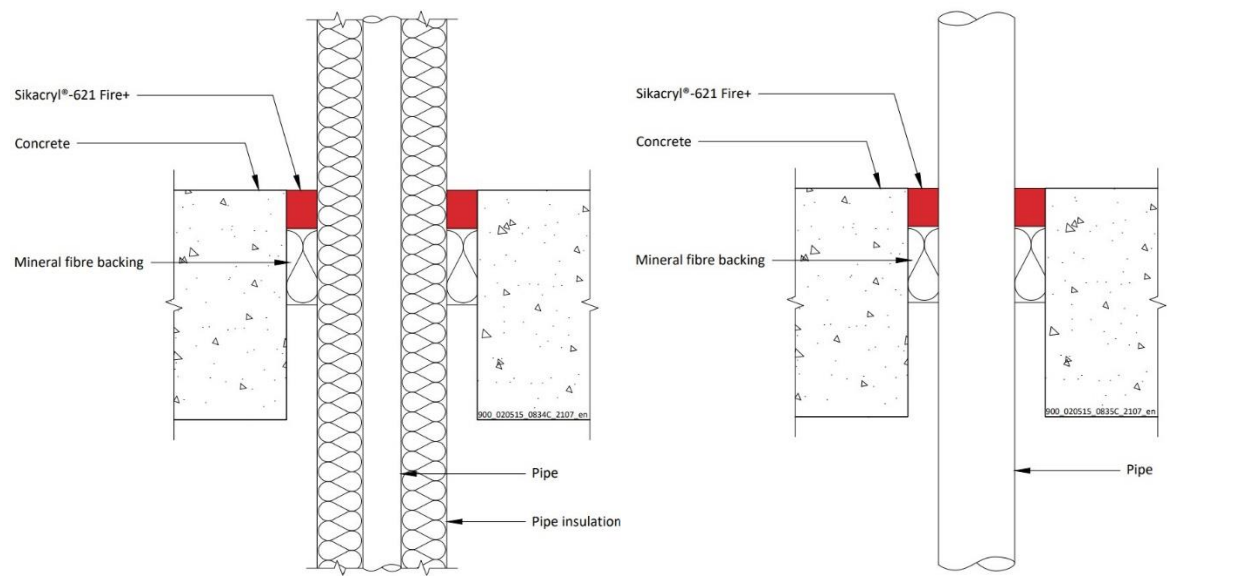
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A.6.3 Single side penetration seal with pipes

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:



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 |
| 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 |
| 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) | 25 mm | 48 mm stone wool | E 180 C/C, EI 120 C/C |

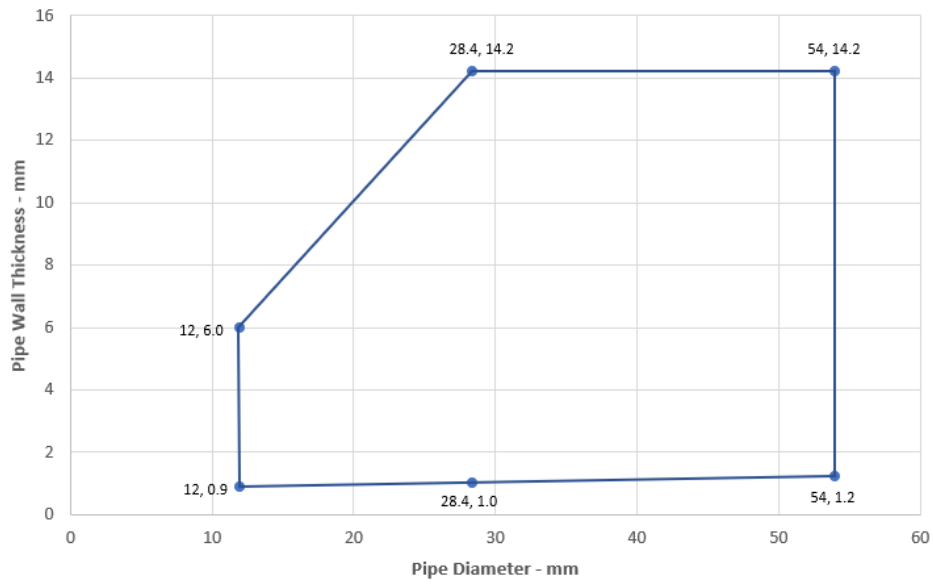
*See below graphs for interpolated pipe sizes

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



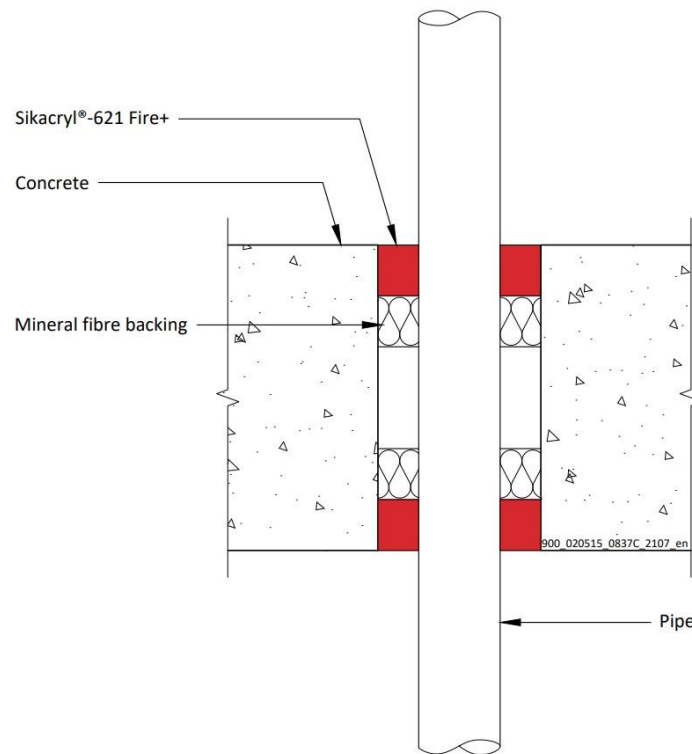
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A.6.4 Double side penetration seal with pipes

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 Ø/1.6-3.7 mm wall | 25 mm | 25 mm Stone wool | EI 240 U/C |
| Up to 40 mm Ø/1.6-3.7 mm wall, with bundle of cables up to 21 mm diameter | | | |
| PP pipe according to EN 1451-1 or DIN 8077/8078 | | | |
| 12 mm Ø/1.2 mm wall | 25 mm | 25 mm Stone wool | EI 240 U/C |
| 13-75 mm Ø/1.2-6.8 mm wall* | | | EI 90 U/C |
| Up to 40 mm Ø/1.2-1.8 mm wall, with bundle of cables up to 21 mm diameter | | | EI 180 U/C |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 | | | |
| 20-40 mm Ø/2.0-2.4 mm wall* | 25 mm | 25 mm Stone wool | EI 240 U/C |
| Up to 40 mm Ø/2.0-2.4 mm wall, with bundle of cables up to 21 mm diameter | | | EI 180 U/C |

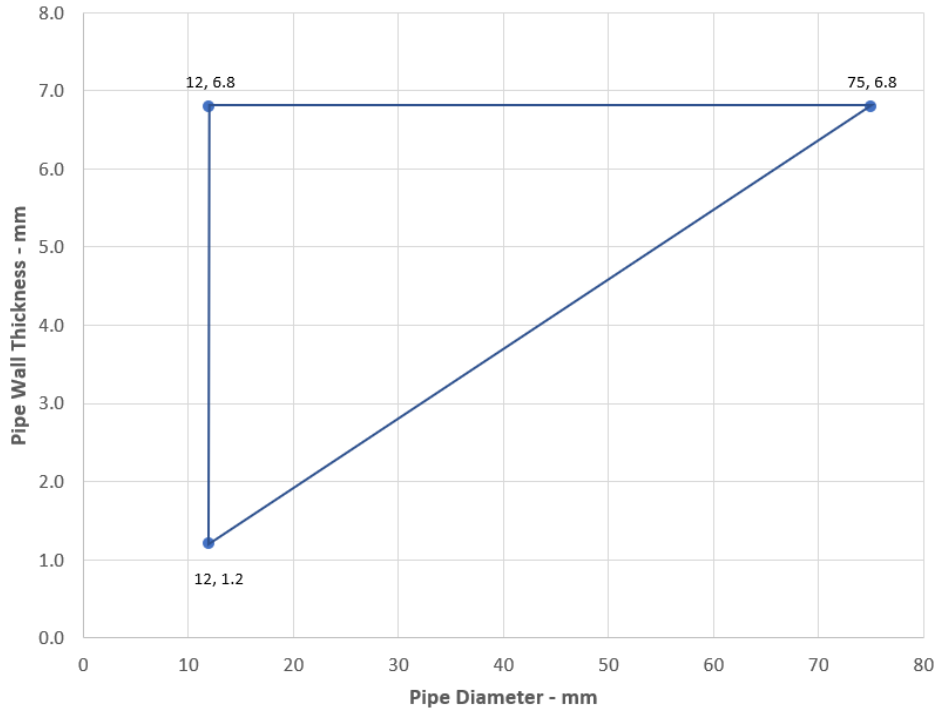
*See below graphs for interpolated pipe sizes

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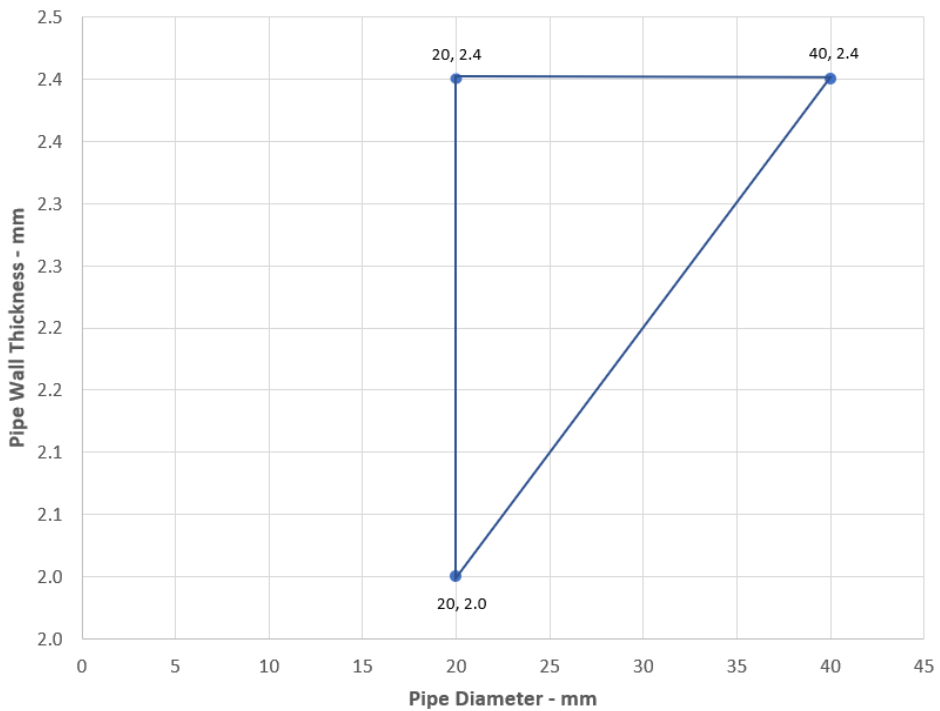
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PP Pipes - EI 190 U/C



PE Pipes - U/C



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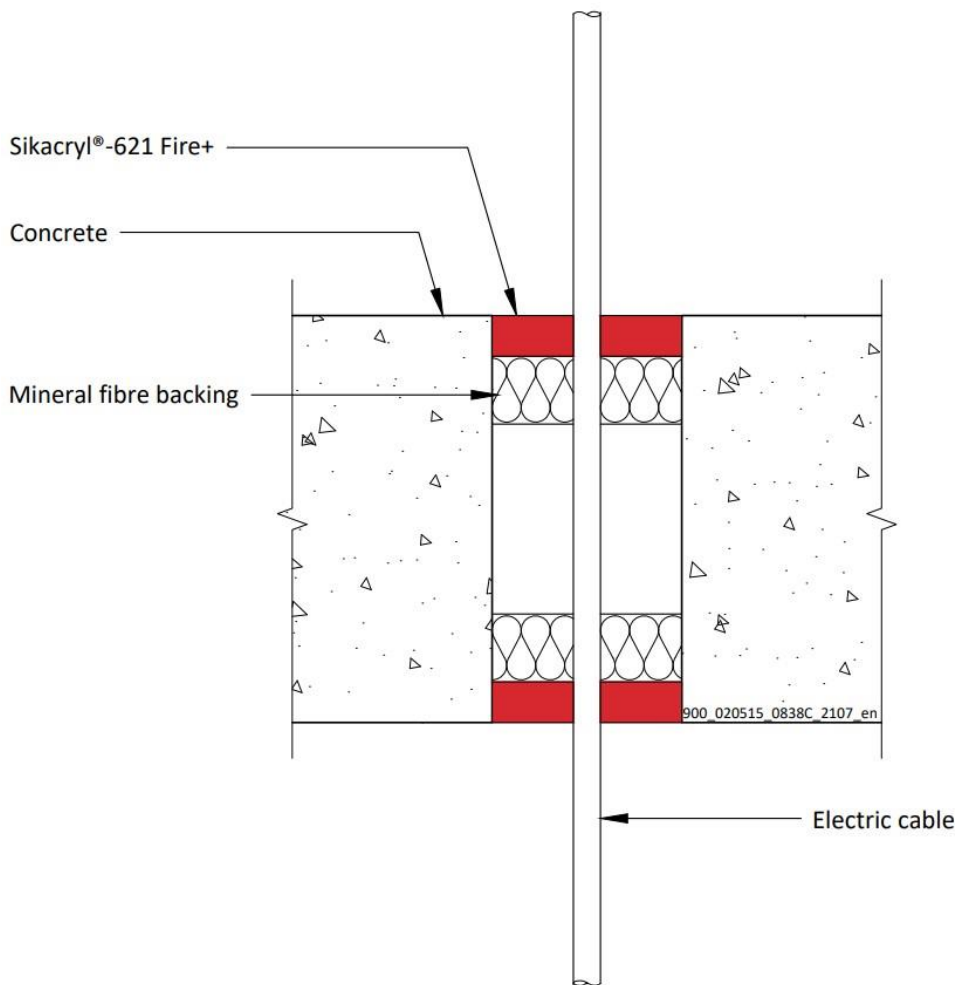
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A.6.5 Double side penetration seal with cables

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 |

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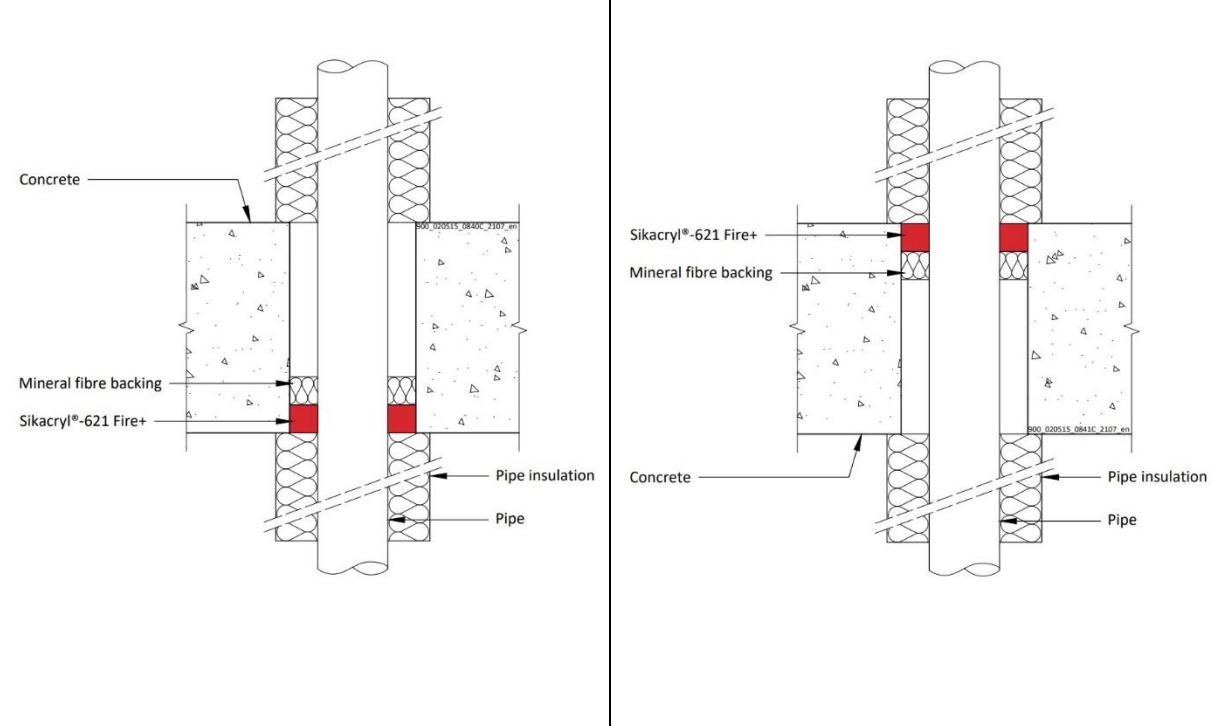
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A.6.6 Single side penetration seal with metallic pipes

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 mineral fibre.

Construction details:



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 |

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| 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

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| 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* | | | | |

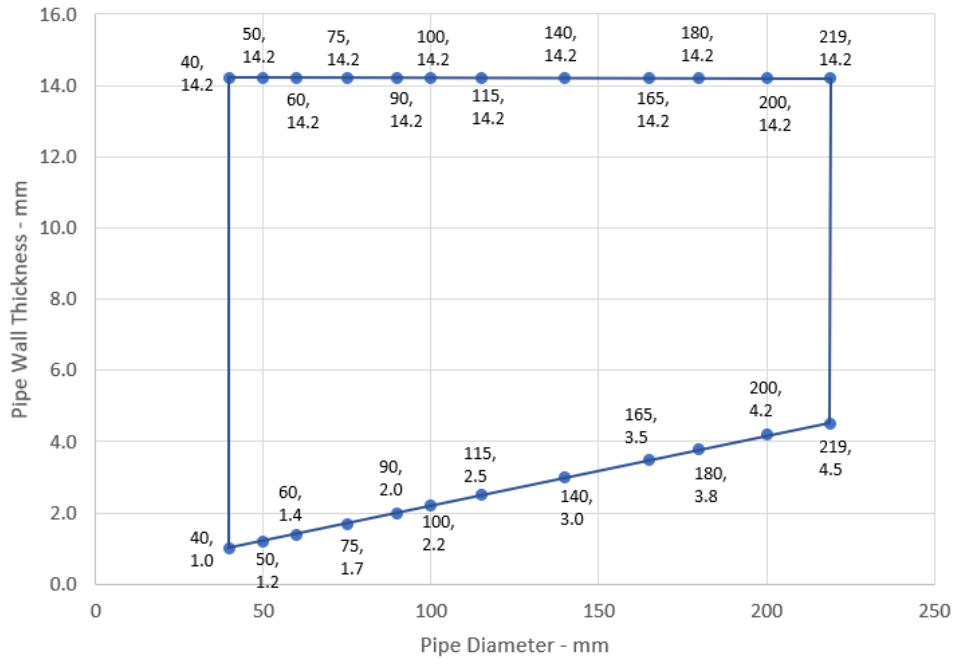
* Typical pipe diameters shown, see below graph for intermediate sizes

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Steel Pipes with Stone Wool Insulation - C/U



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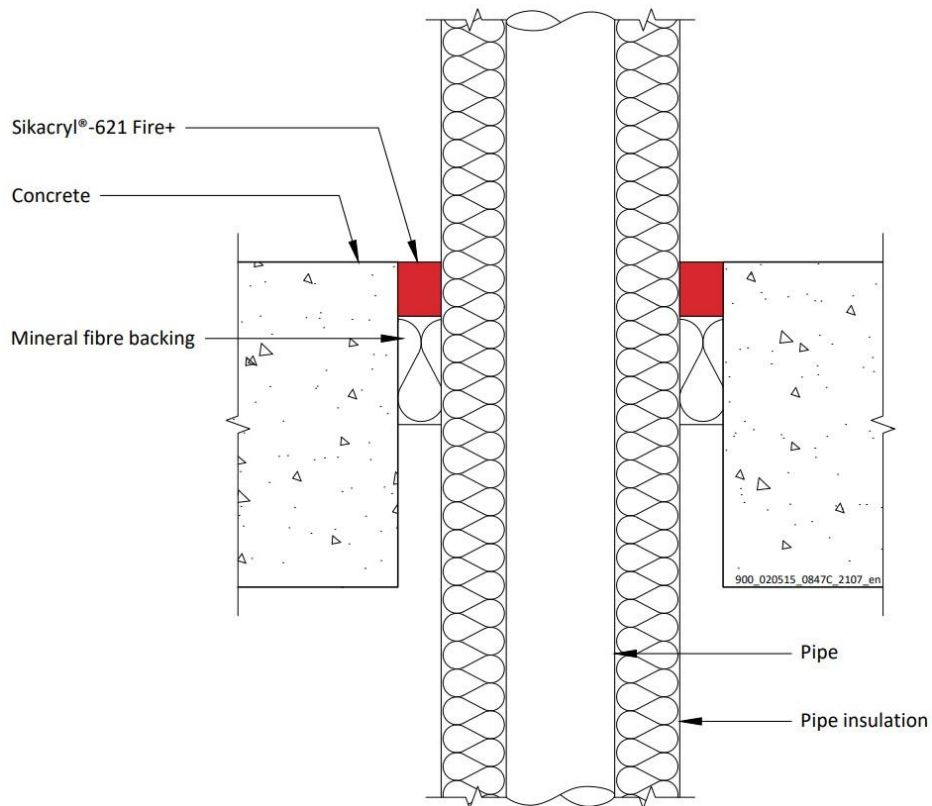
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A.6.7 Single side penetration seal with metallic pipes

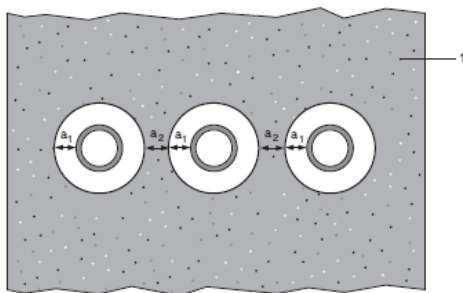
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to the top of the floor, backed with 48 mm deep AES mineral fibre insulation. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 504 mm \varnothing

Construction details:



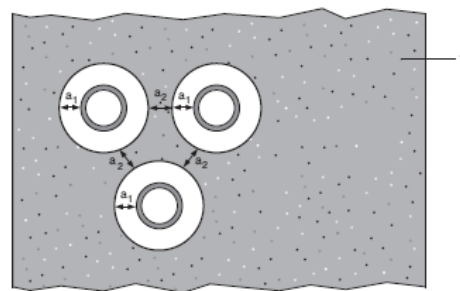
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

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A.6.7.1 Single side penetration seal with pipes

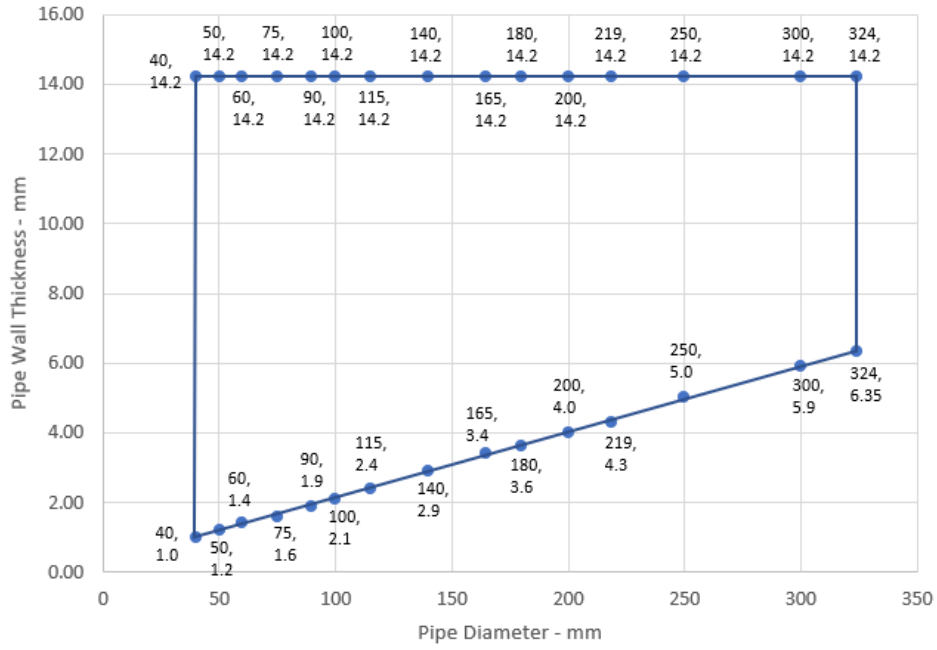
| Services | Insulation | Classification |
|---|--|----------------|
| Mild or stainless steel pipe | | |
| 40 mm diameter/1-14.2 mm wall | 20 mm thick stone, mineral wool min. 80 kg/m ³ | EI 240 C/U |
| 40 mm diameter/1-14.2 mm wall* | 30-80 mm thick stone, mineral wool min. 80 kg/m ³ | |
| 50 mm diameter/1.2-14.2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

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Steel Pipes with Mineral Wool Insulation - C/U



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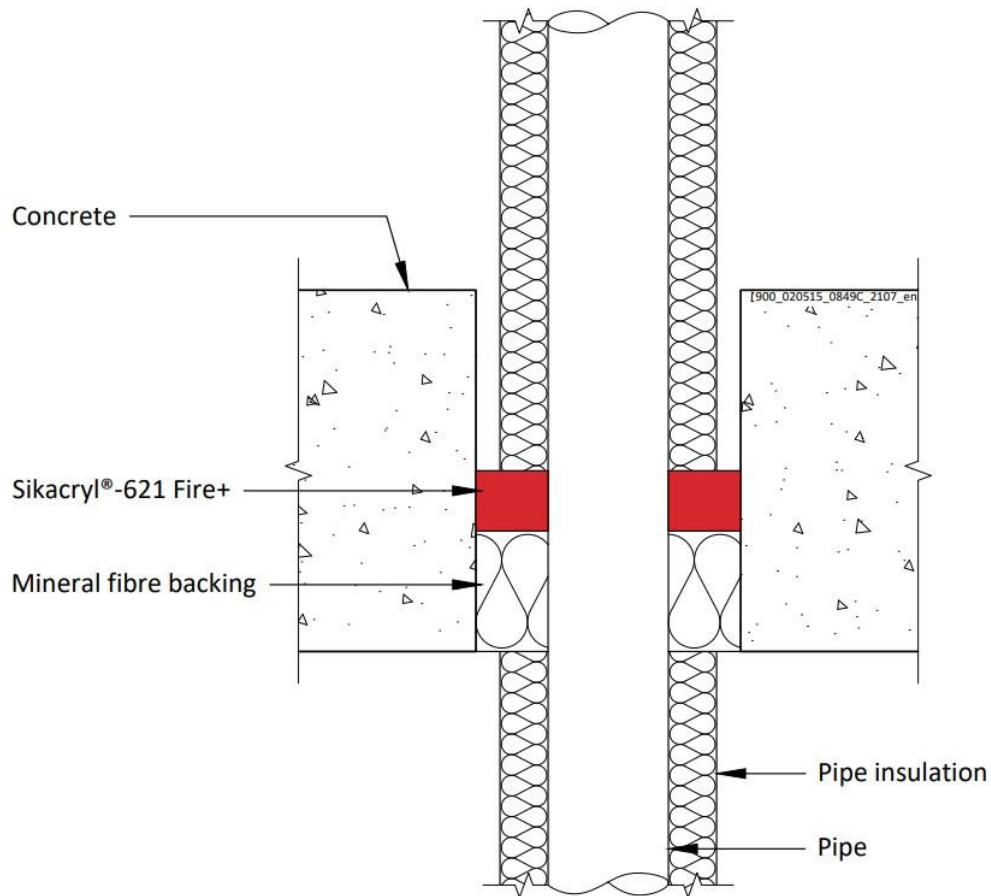
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A.6.8 Single side penetration seal with composite pipes

Penetration Seal: CI (Continuous 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 mineral fibre'.

Construction details:



A.6.8.1

| Services | Sealant depth | Backing | Insulation (minimums) | Classification |
|-----------------------------|---------------|-------------------------|--|----------------|
| Alupex Composite Pipe | 25 mm | 48 mm AES mineral fibre | 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 | | | | |

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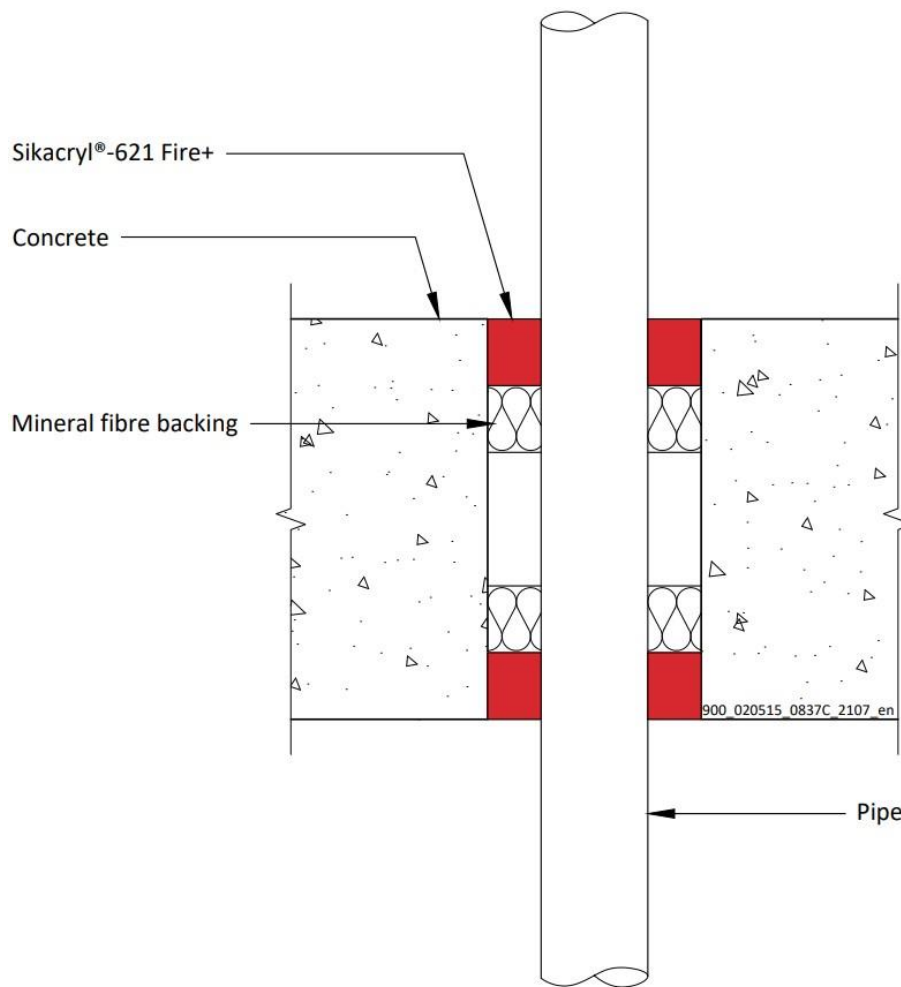
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A.6.9 Double side penetration seal with metallic pipes

Penetration Seal: Non-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.6.9.1

| 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 |
| Mild steel pipe 16 mm diameter/1.5-7.5 mm wall | | | 25 mm | | 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 mineral fibre 25 mm deep |

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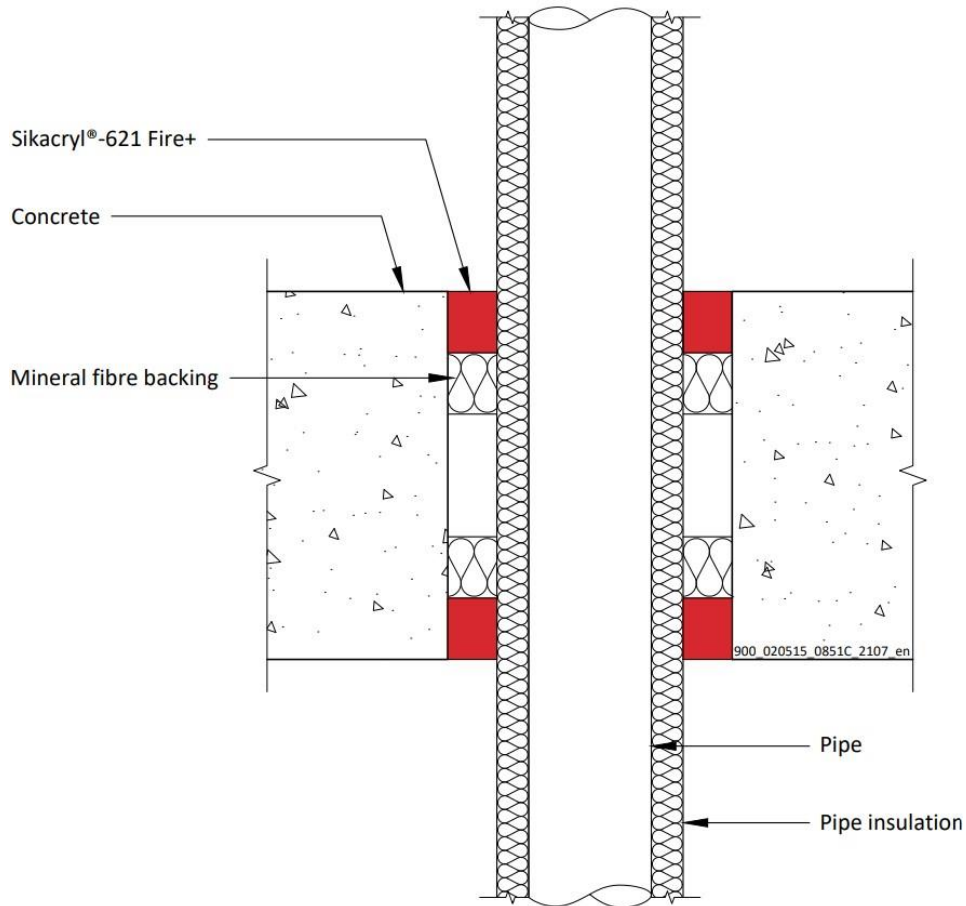
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A.6.10 Double side penetration seal with metallic pipes

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 mineral fibre'.

Construction details:



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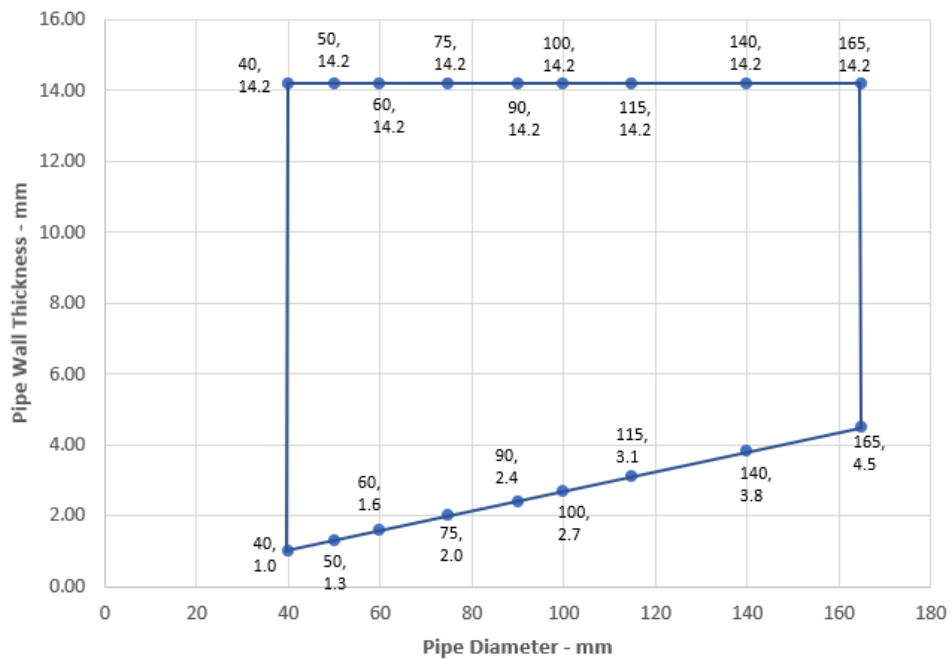
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A.6.10.1

| 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 | | EI 180 C/U |
| 40 mm diameter/1-14.2 mm wall* | 25 mm | 25 mm AES mineral fibre | 13 -19 mm Elastomeric insulation minimum class B-s3,d0 or phenolic foam insulation | EI 60 C/U |
| 50 mm diameter/1.3-14.2 mm wall* | | | | |
| 60 mm diameter/1.6-14.2 mm wall* | | | | |
| 75 mm diameter/2-14.2 mm wall* | | | | |
| 90 mm diameter/2.4-14.2 mm wall* | | | | |
| 100 mm diameter/2.7-14.2 mm wall* | | | | |
| 115 mm diameter/3.1-14.2 mm wall* | | | | |
| 140 mm diameter/3.8-14.2 mm wall* | | | | |
| 165 mm diameter/4.5-14.2 mm wall* | | | | |

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

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



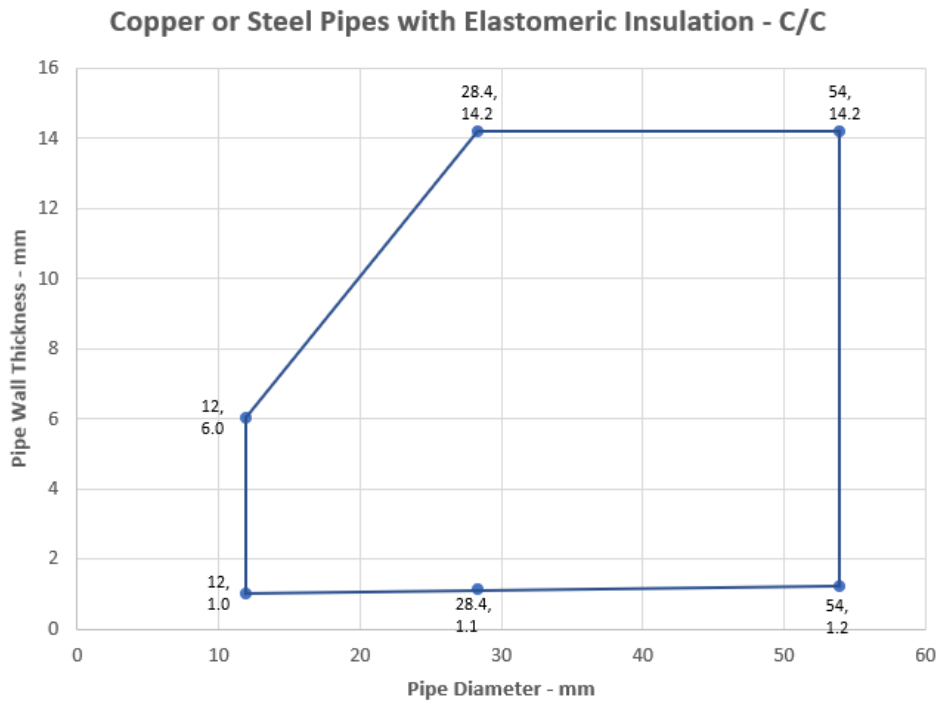
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| Services | Sealant depth | Backing (minimum) | Insulation | Classification |
|-----------------------------------|---------------|-------------------------|---|-----------------------|
| Copper or steel pipe | | | | |
| 12 mm diameter/1-6 mm wall | 25 mm | 25 mm AES mineral fibre | 9 mm Elastomeric insulation minimum class B-s3,d0 or phenolic 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 or phenolic 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 or phenolic foam insulation | E 90 C/C, EI 60 C/C |

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



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| Services | Sealant depth | Backing (minimum) | Insulation | Classification |
|-----------------------------|---------------|-------------------------|---|-----------------------------|
| Alupex Composite Pipe | | | | |
| 16 mm diameter/2.25 mm wall | 25 mm | 25 mm AES mineral fibre | 9 mm Elastomeric insulation minimum class B-s3,d0 or phenolic foam insulation | EI 180 C/C |
| 16 mm diameter/2.25 mm wall | | | 9-13 mm Elastomeric insulation minimum class B-s3,d0 or phenolic foam insulation | E 120 C/C, EI 60 C/C |
| 20 mm diameter/2.5 mm wall | | | | |
| 26 mm diameter/3 mm wall | | | | |
| 32 mm diameter/3 mm wall | | | | |
| 40 mm diameter/3.5 mm wall | | | | |
| 50 mm diameter/4 mm wall | | | | |
| 63 mm diameter/4.5 mm wall | | | | |
| 75 mm diameter/4.7 mm wall | | | | |
| 16 mm diameter/2.25 mm wall | | | 13-25 mm Elastomeric insulation minimum class B-s3,d0 or phenolic 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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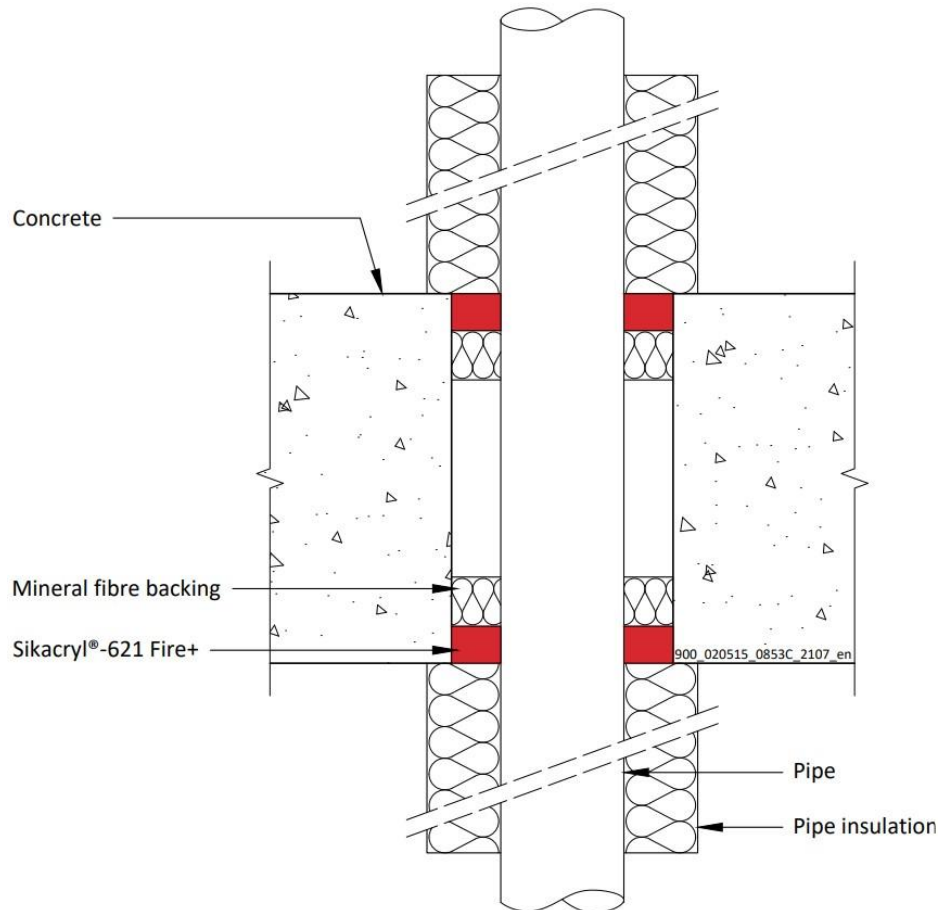
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A.6.11 Double side penetration seal with metallic pipes

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.6.11.1

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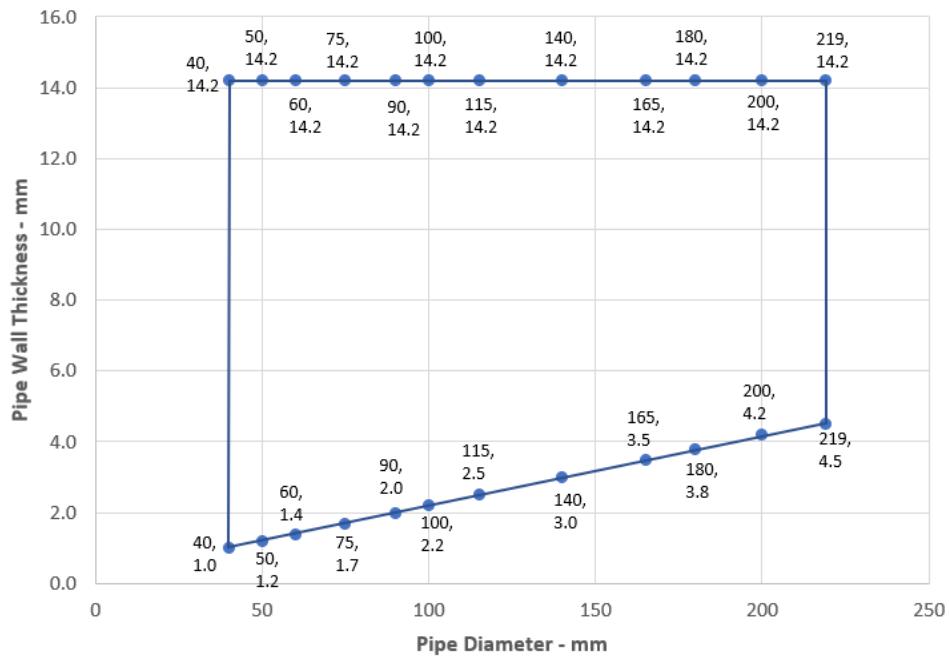
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A.6.11.1

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

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

Steel Pipes with Stone Wool Insulation - C/U



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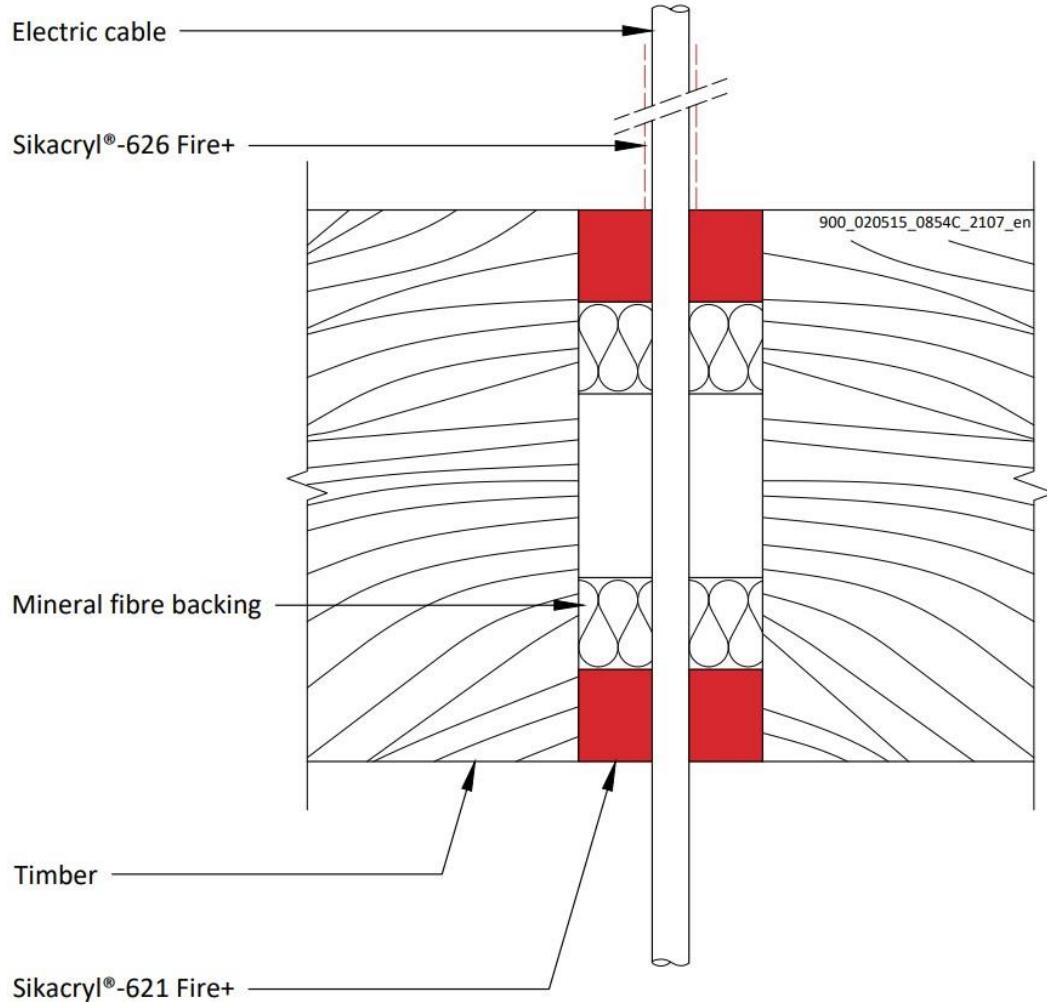


A.7 Timber floor constructions with floor thickness of minimum 150 mm

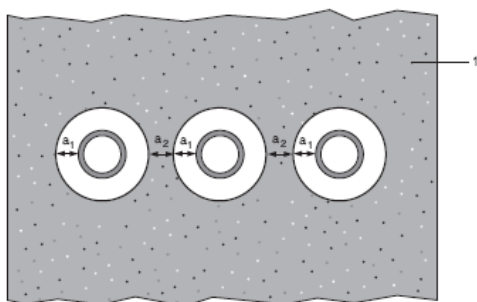
A.7.1 Double sided penetration seal with cables

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

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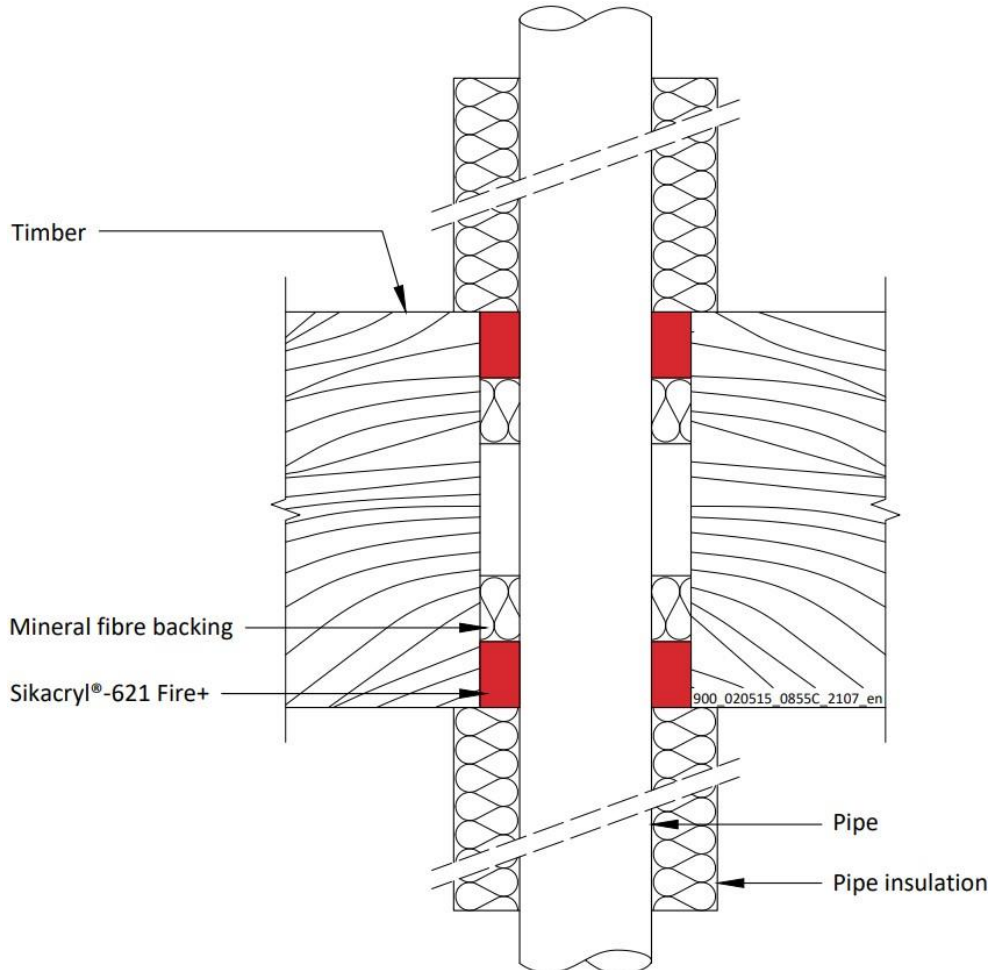
A.7.1.1

| 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 | | | | Sikacryl®-626 Fire+, 260-micron DFT extending 150 mm from top side of the seal | 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 |

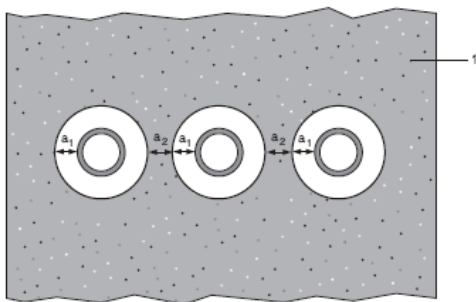
A.7.2 Double side penetration seal with metallic pipes

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

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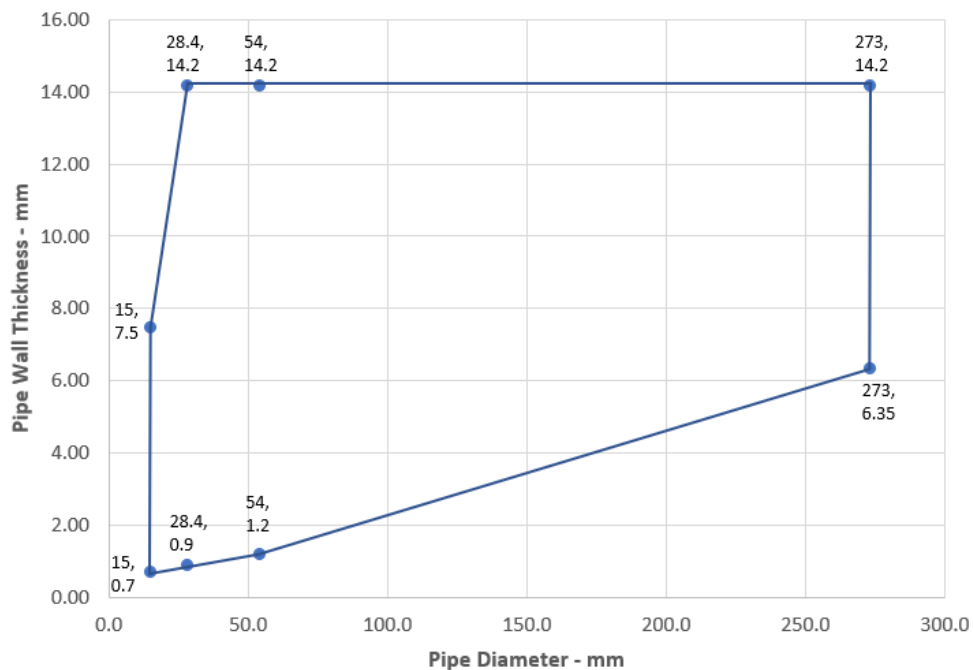
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A.7.1.1

| 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 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 seal | EI 120 C/C |
| Maximum 75 mm diameter/ 4.6 mm wall* | | | | | E 120 C/C, EI 90 C/C |

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

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

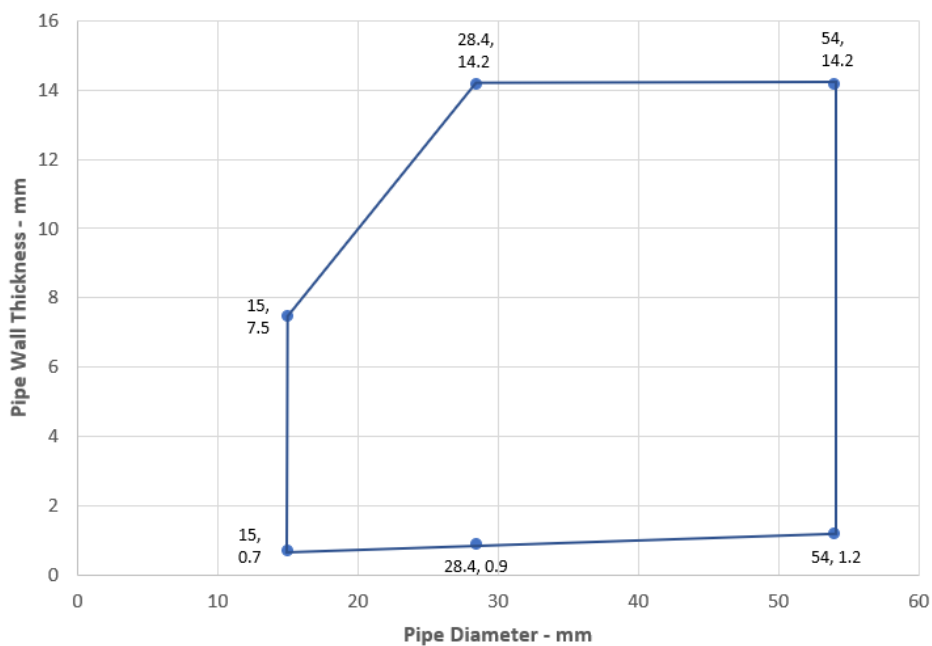


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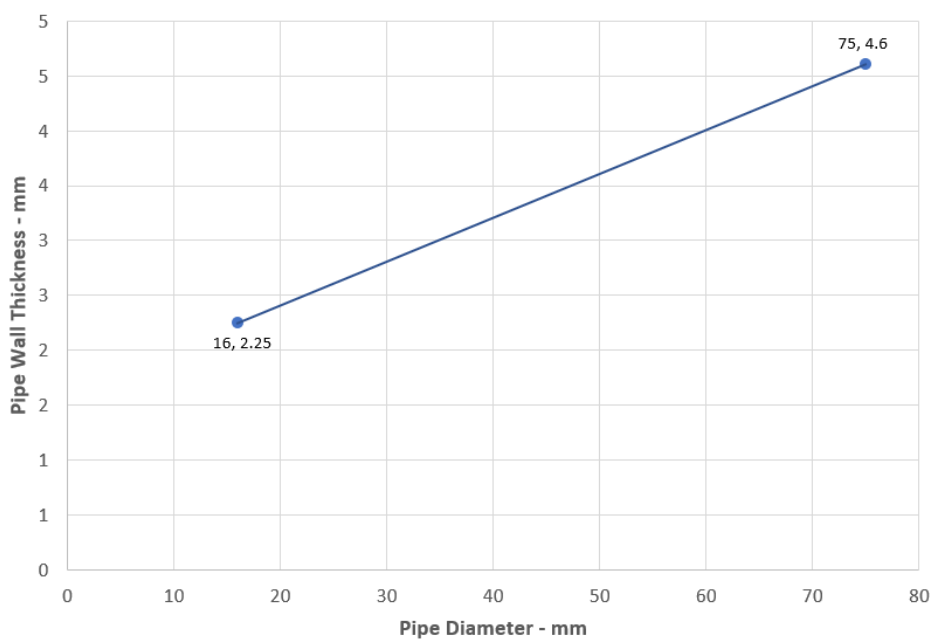
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Copper or Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



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



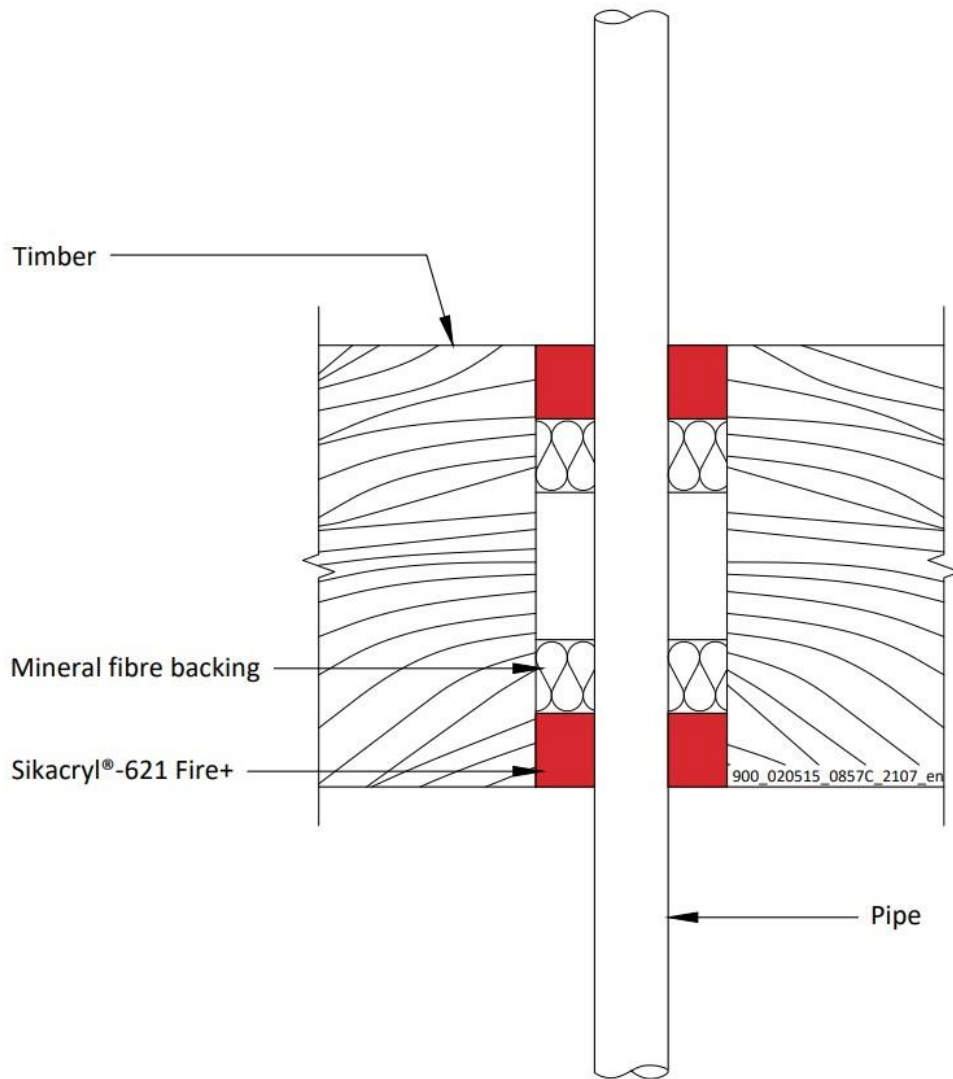
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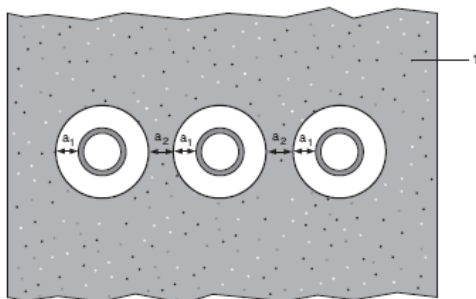
A.7.3 Double side penetration seal with plastic pipes and composite pipes

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

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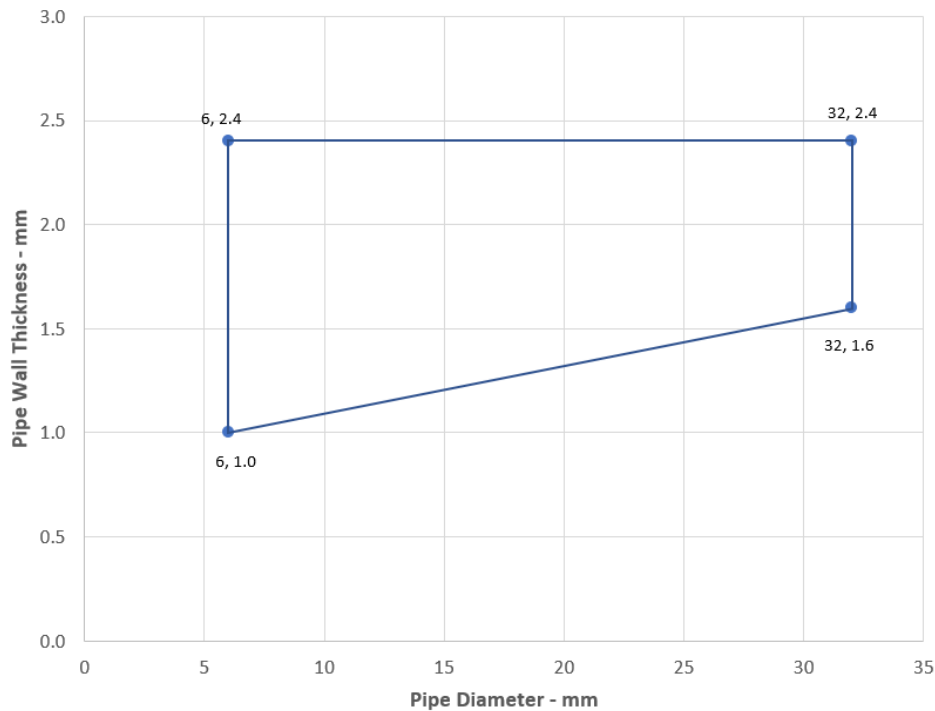
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A.7.3.1

| Services | Sealant depth | Backing | Classification |
|--|---------------|--|-------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1 | | | |
| Maximum 32 mm diameter/1.0-2.4 mm wall* | 25 mm | Stone wool 25 mm deep min. 33kg/m ³ | EI 120 U/C |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 | | | |
| Maximum 32 mm diameter/2.0-3.0 mm wall* | 25 mm | Stone wool 25 mm deep min. 33kg/m ³ | EI 120 U/C |
| PP pipe according to EN 1451-1 or DIN 8077/8078 | | | |
| Maximum 32 mm diameter/1.8-4.4 mm wall* | 25 mm | Stone wool 25 mm deep min. 33kg/m ³ | EI 120 U/C |
| PEX pipe in pipe system | | | |
| 25 mm diameter outer /15 mm diameter x 2.5 mm wall inner | 25 mm | Stone wool 25 mm deep min. 33kg/m ³ | EI 120 C/C |

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

PVC-U Pipes EI 120 - U/C

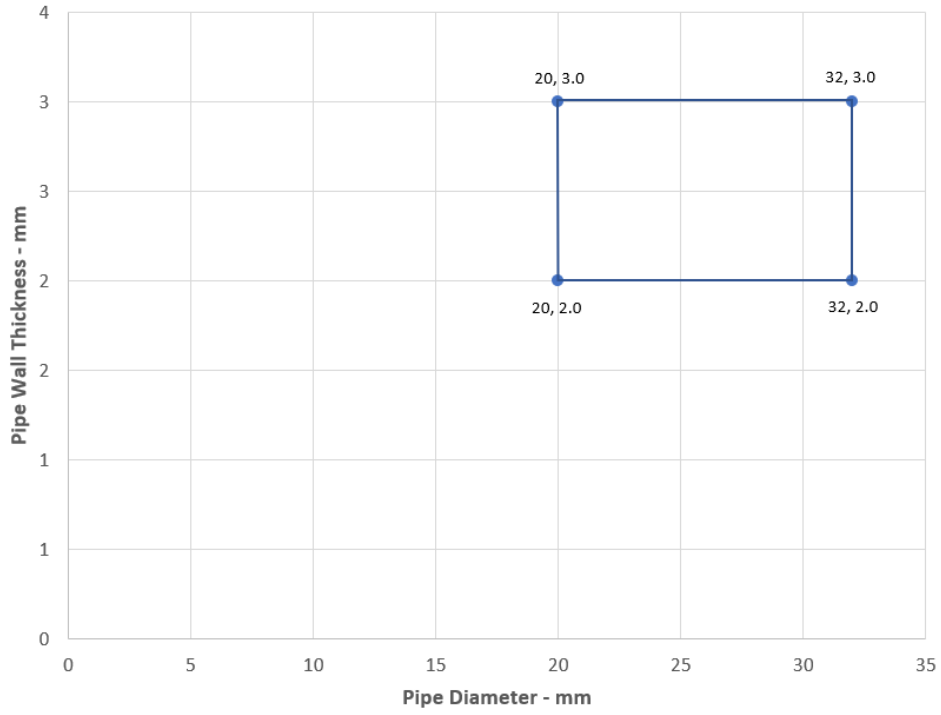


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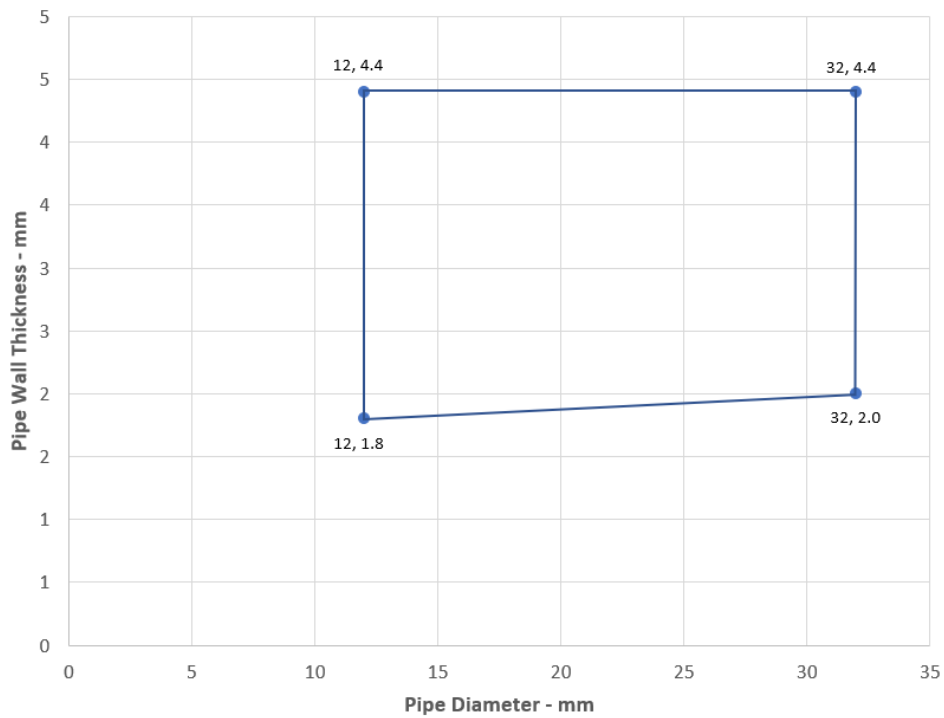
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PE Pipes EI 120 - U/C



PP Pipes EI 120 - U/C



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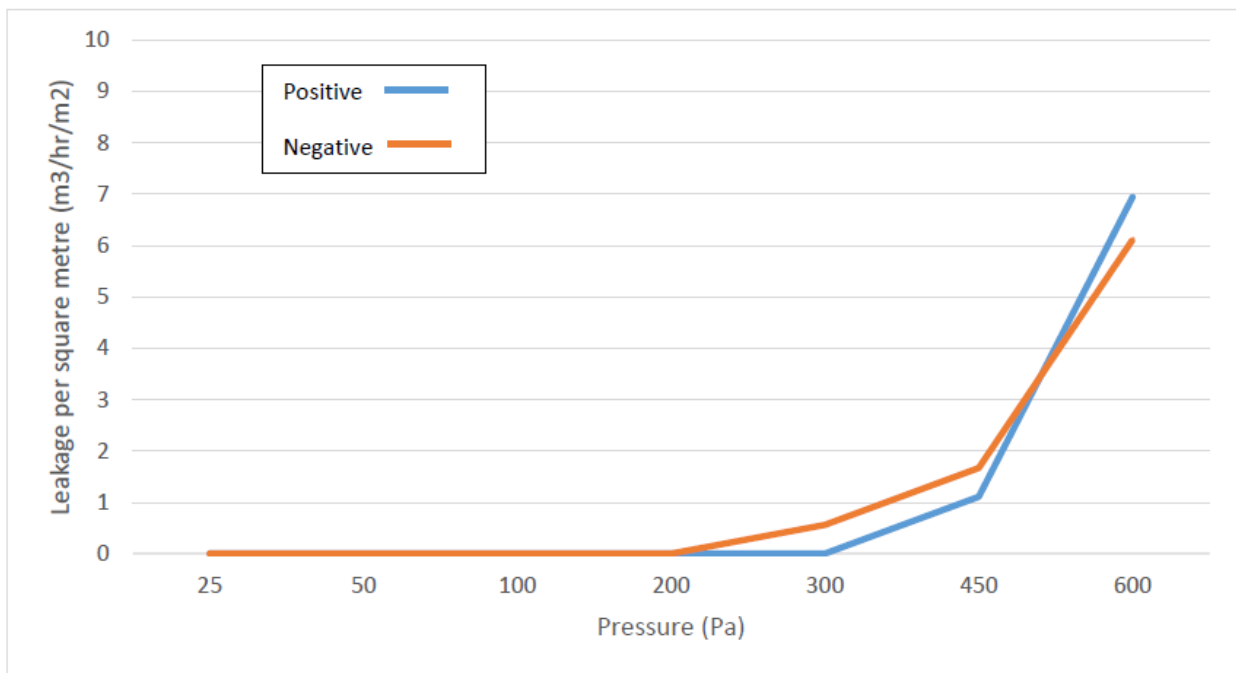
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BUILDING TRUST



ANNEX B – Air Permeability – Sikacryl-621 Fire+

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



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

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

Signed for and on behalf of the manufacturer by:

Name : Tomek Gutowski
Function: Corporate Certification and Approvals
At Warsaw on 13 December 2021



.....

Name : Maciej Michalewski
Function: Standardization and Approvals
At Warsaw on 13 December 2021



.....

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

FULL CE MARKING



21

Sika Services AG, Zurich, Switzerland

DoP No. 58967197

| | |
|-------------------------------------|-------------------------|
| Reaction to fire | B – s1, d0 |
| Resistance to fire | Annex A |
| Air permeability | Annex B |
| Water permeability | No performance assessed |
| Release of dangerous substances | No performance assessed |
| Mechanical resistance and stability | No performance assessed |
| Resistance to impact/movement | No performance assessed |
| Adhesion | No performance assessed |
| Durability | Z2 |
| Airborne sound insulation | No performance assessed |
| Thermal properties | No performance assessed |
| Water vapour permeability | No performance assessed |

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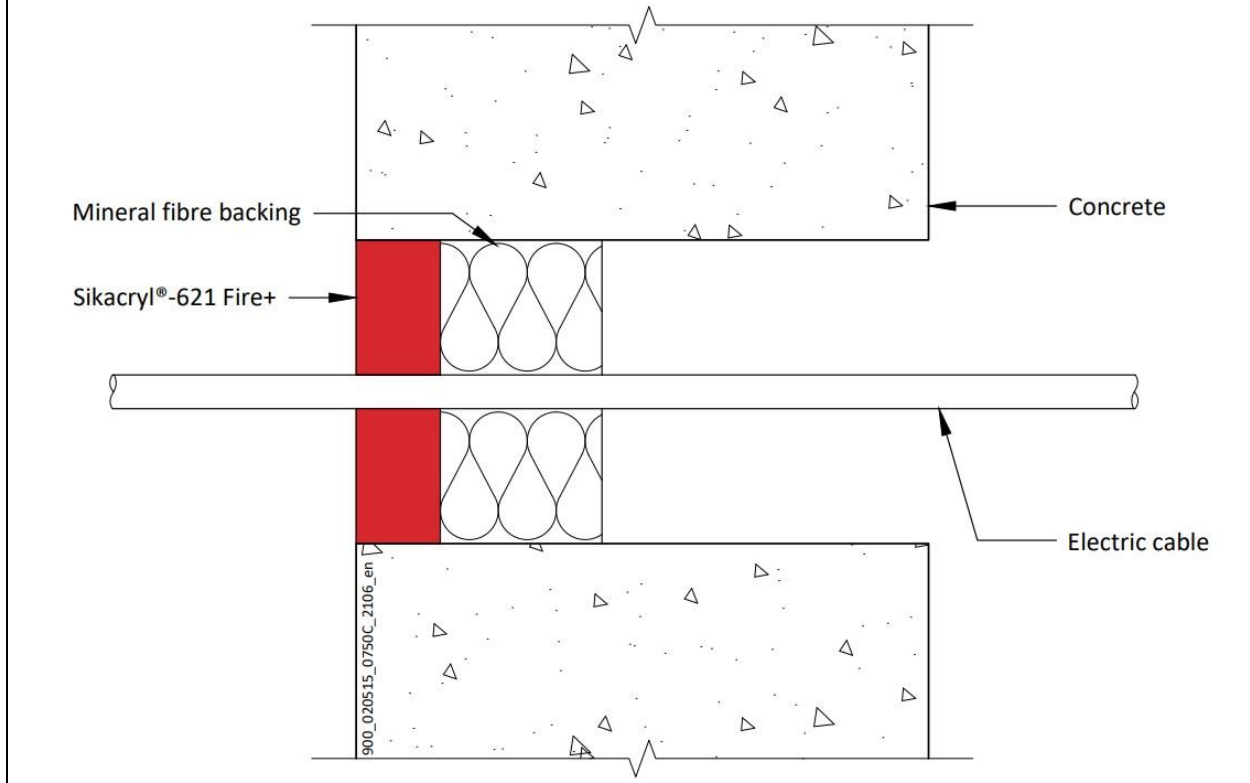
ANNEX A – Resistance to Fire Classification – Sikacryl-621 Fire+ (penetration seals)

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 mineral fibre'. 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 mineral fibre | 87 mm \varnothing | E 240, EI 90 |
| Blank seals | 25 mm | 48 mm AES mineral fibre insulation | 300 x 300 mm | E 240, EI 60 |
| Electric cables up to 21 mm diameter, single. | | | | |
| Blank seals | 25 mm | 48 mm AES mineral fibre insulation | 35 x 35 mm / 36 mm \varnothing | E 240, EI 120 |
| Electric cables up to 21 mm diameter, single. | | | | |

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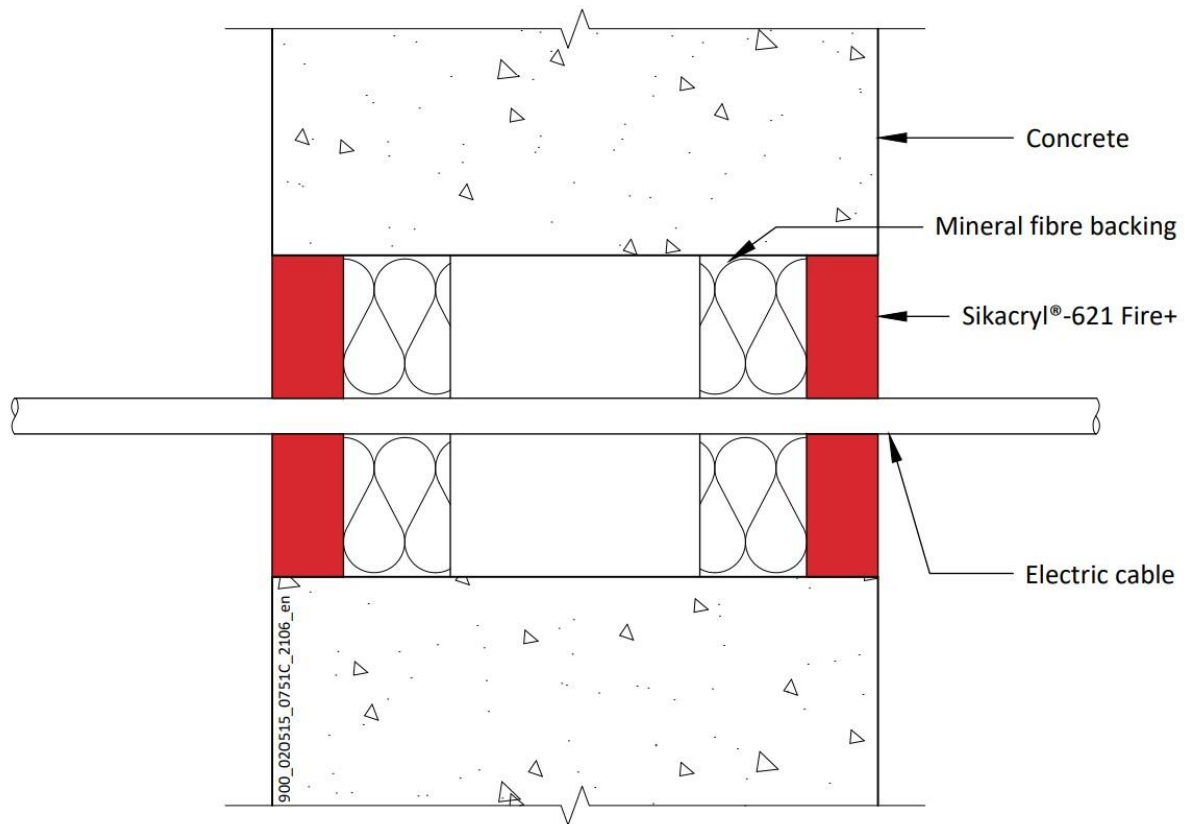
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A.1.2 Double side penetration seal with cables

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 mineral fibre | | 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 |

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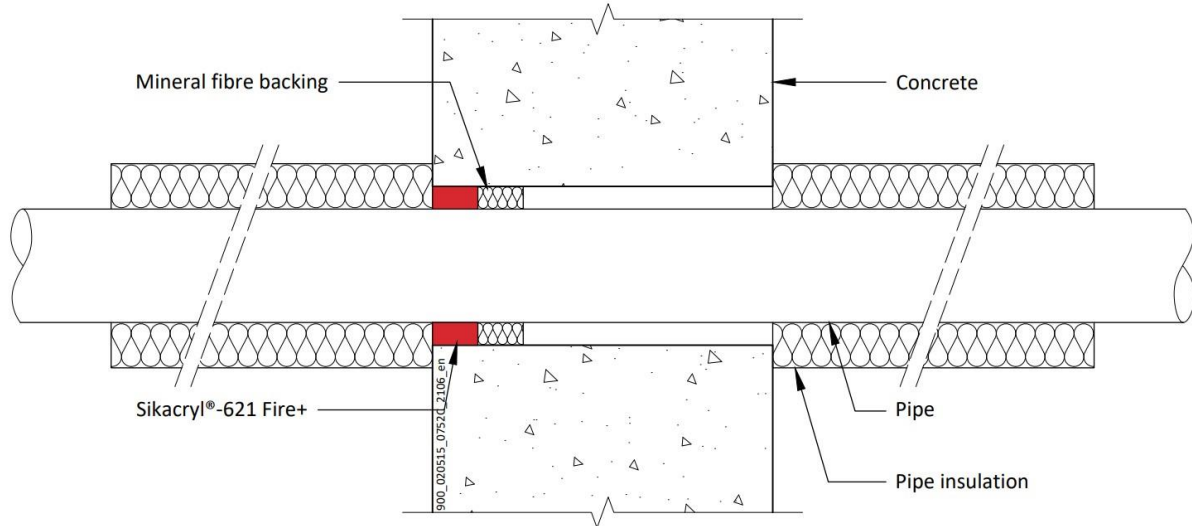
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A.1.3 Single side penetration seal with metallic (and composite) pipes

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 mineral fibre insulation, 600 mm long (min.) | EI 120 C/U |

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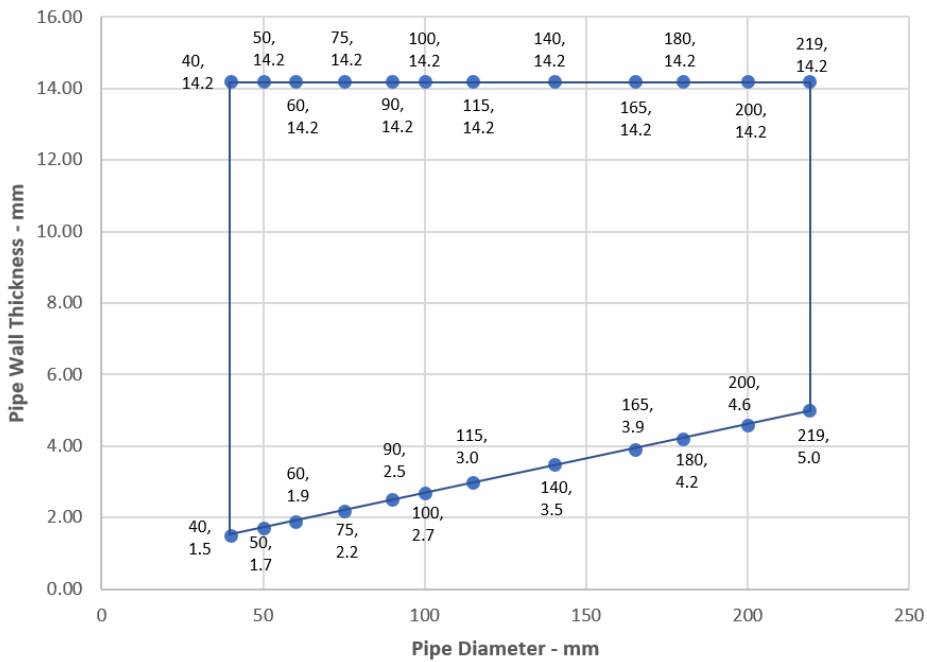
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| Services | Seal width around pipe | Insulation (minimum) | Classification |
|------------------------------------|------------------------|--|----------------------|
| Mild or stainless steel pipe | | | |
| 40 mm diameter/1.5-14.2 mm wall* | 6-18 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



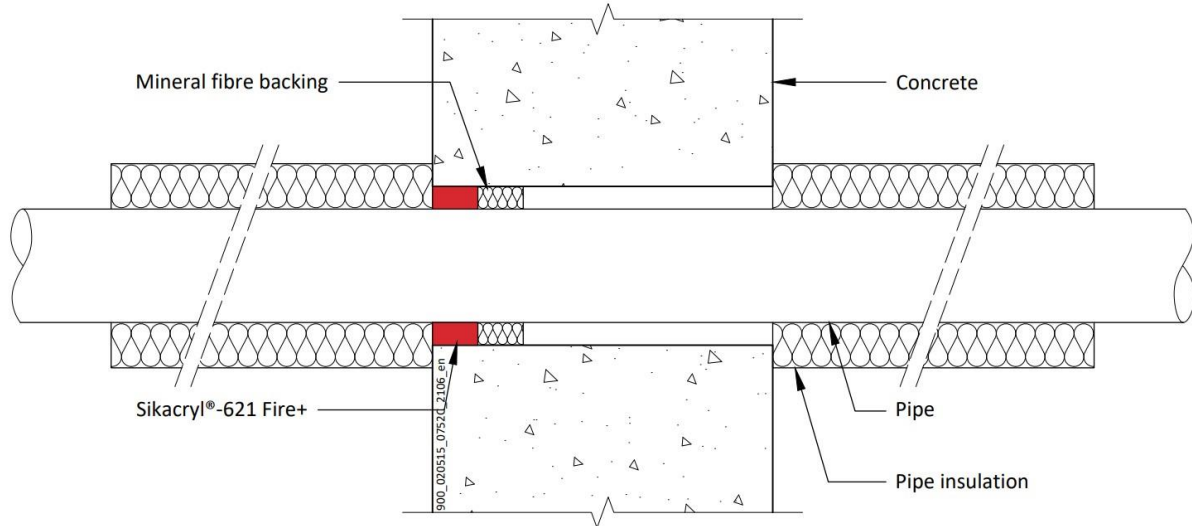
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A.1.4 Single side penetration seal with metallic (and composite) pipes

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 mineral fibre insulation, 600 mm long (min.) | |

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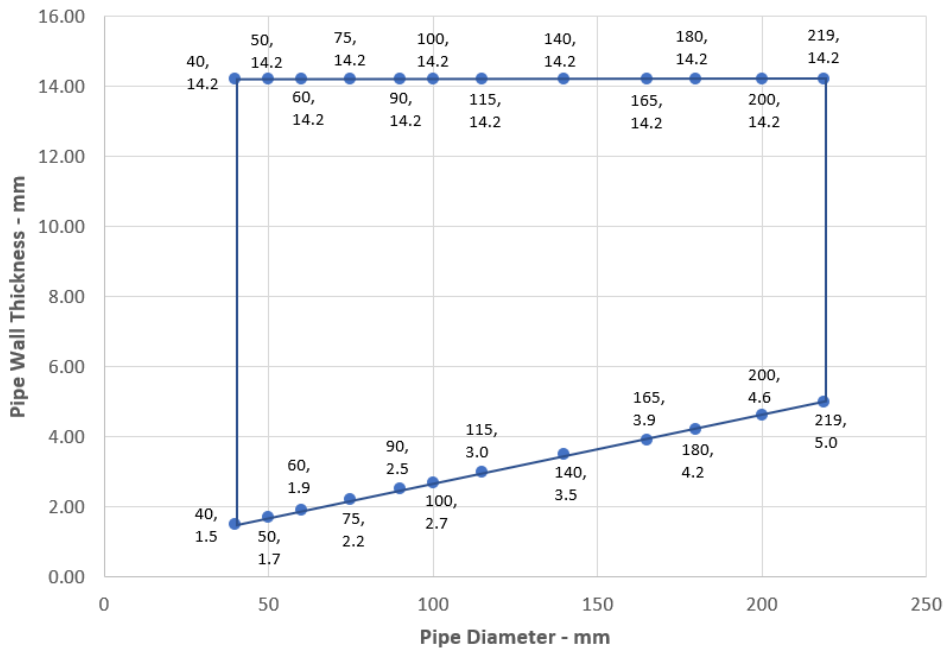
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| Services | Maximum seal size | Insulation (minimum) | Classification |
|------------------------------------|-------------------|--|----------------------|
| Mild or stainless steel pipe | | | |
| 40 mm diameter/1.5-14.2 mm wall* | 300 x 300 mm | 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



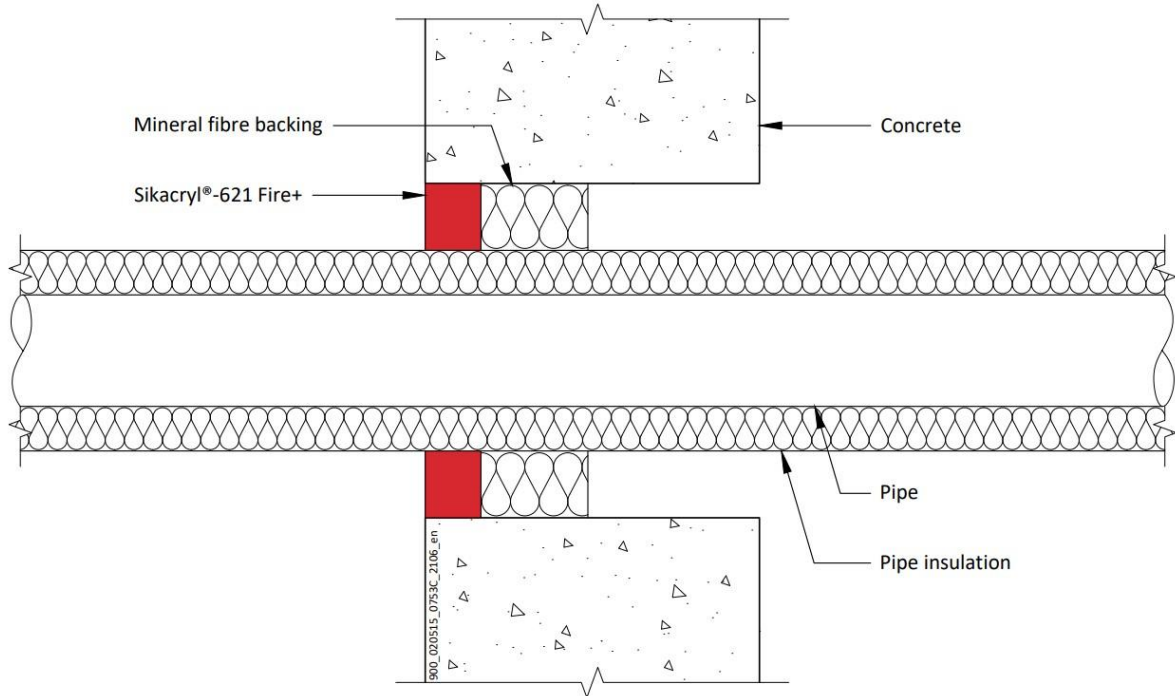
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A.1.5 Single side penetration seal with metallic pipes

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 mineral fibre 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:



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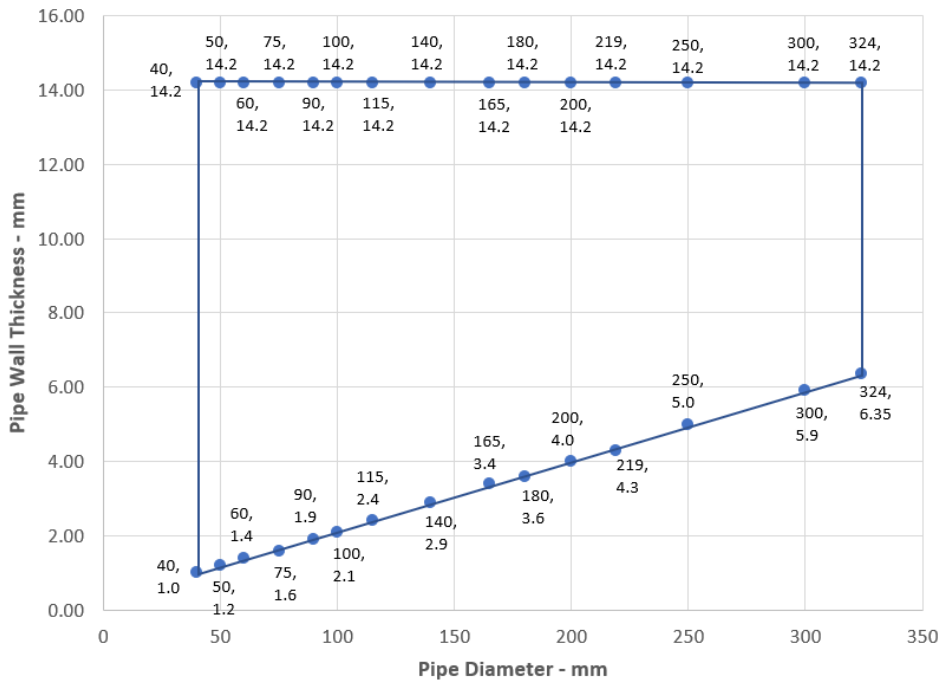
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A.1.5.1 Single side penetration seal with pipes

| 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

Steel Pipes with Mineral Wool Insulation - C/U



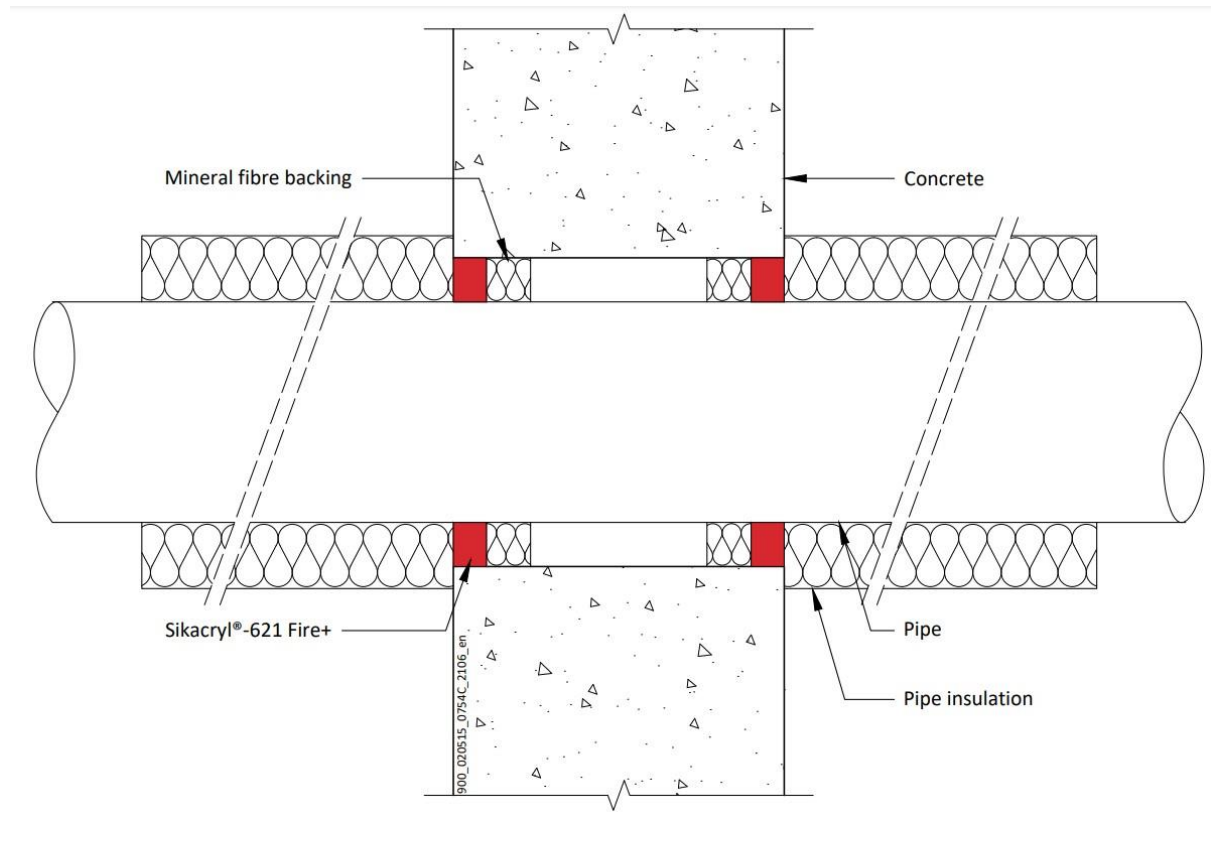
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A.1.6 Double side penetration seal with metallic pipes

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:



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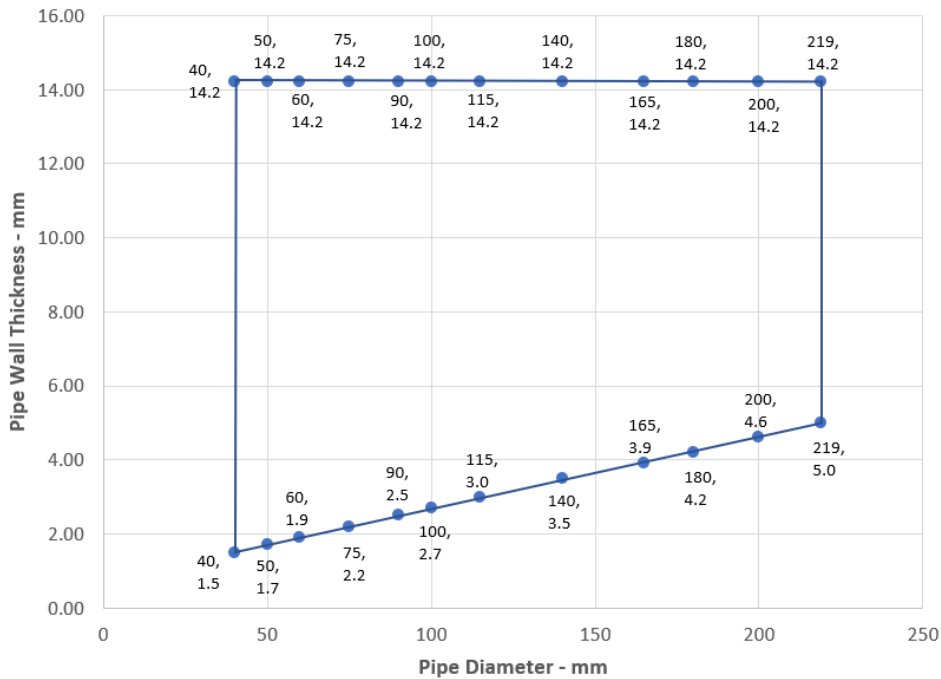
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A.1.6.1

| 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* | | | |
| 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* | | 30 mm Stone wool insulation 80 kg/m ³ | E 240, EI 120 C/U |
| 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



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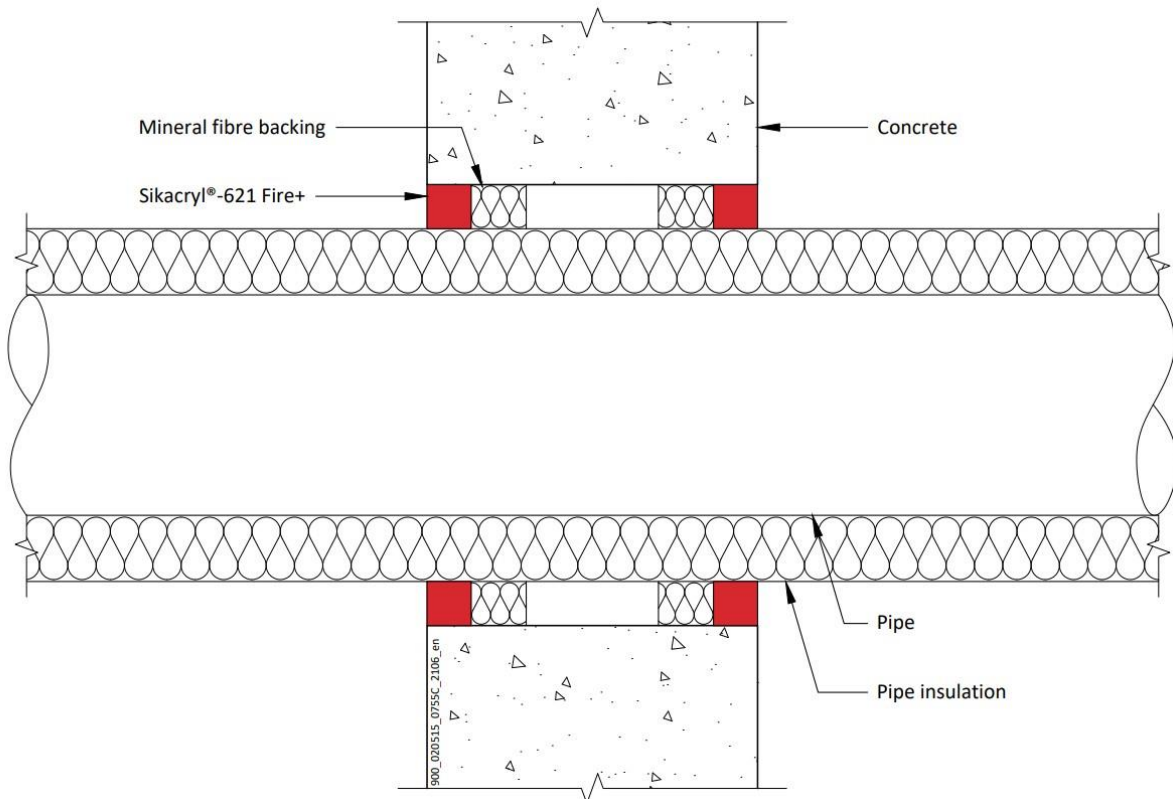
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A.1.7 Double side penetration seal with metallic pipes

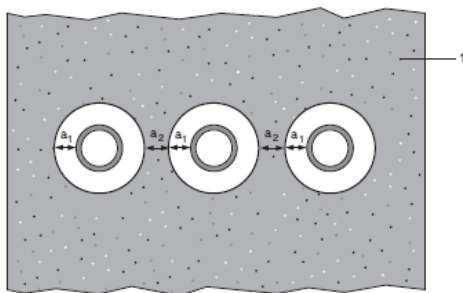
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 15 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 504 mm \varnothing

Construction details:



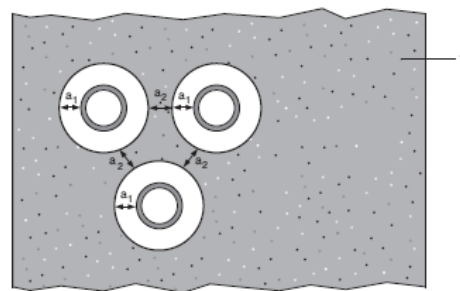
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

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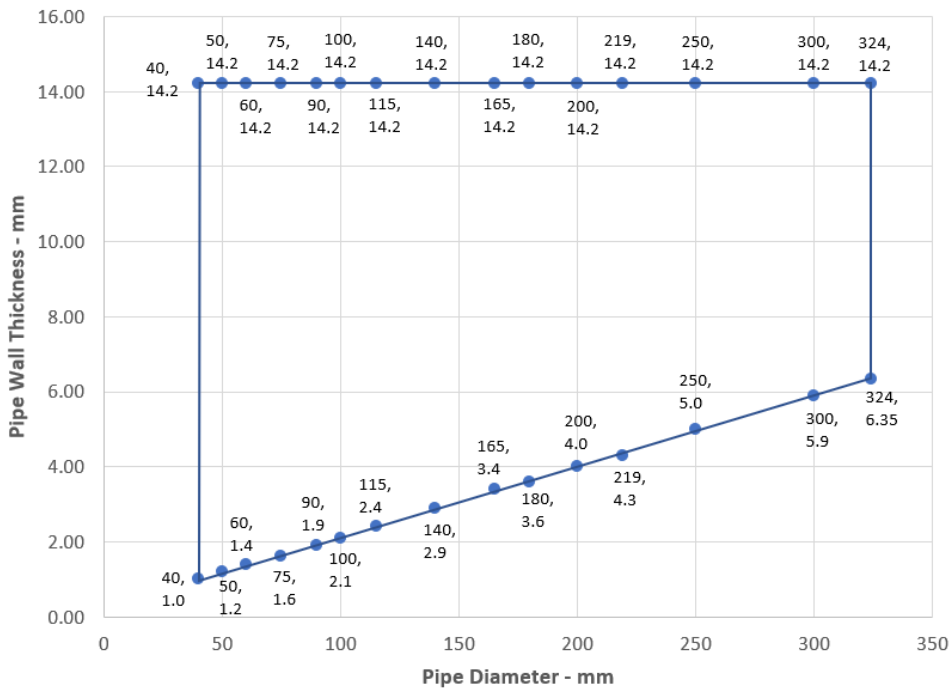
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A.1.7.1 Double side penetration seal with pipes

| 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



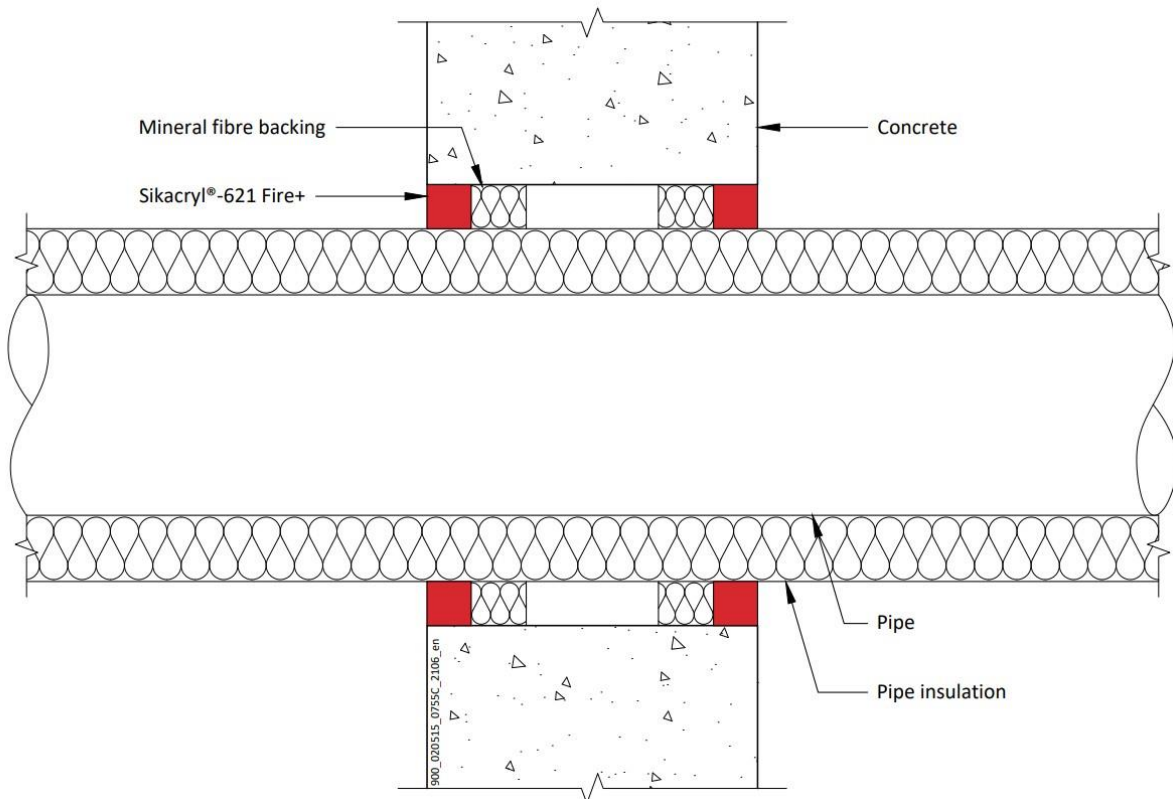
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A.1.8 Double side penetration seal with metallic pipes with combustible insulation

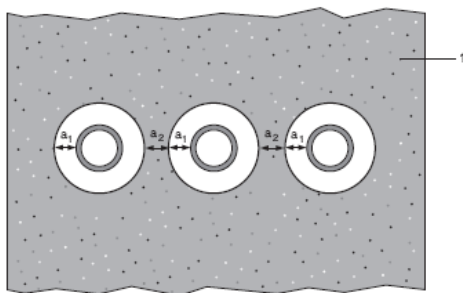
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 300 mm \varnothing

Construction details:



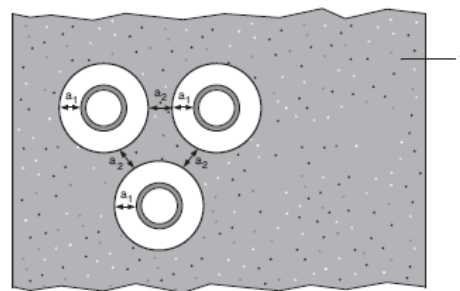
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

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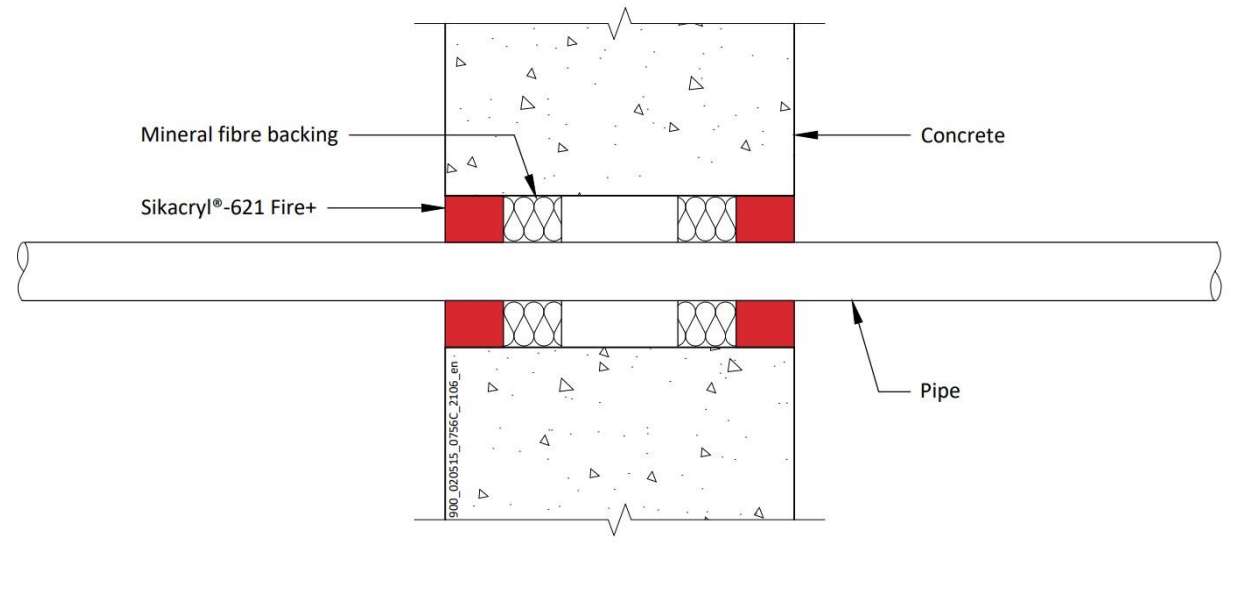
A.1.8.1 Double side penetration seal with metallic pipes with combustible insulation

| 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

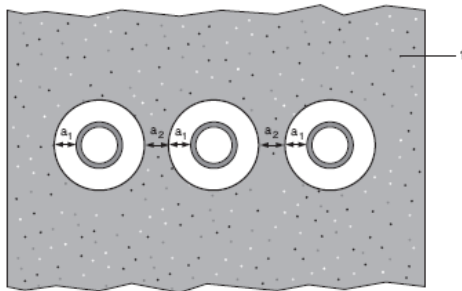
Penetration Seal: Plastic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 25 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 300 mm Ø

Construction details:



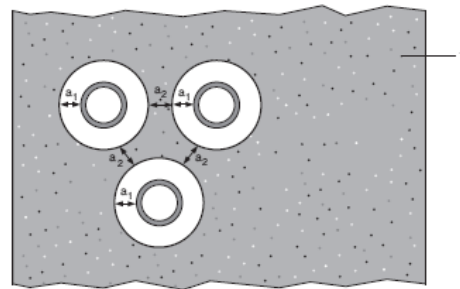
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

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A.1.9.1 Double side penetration seal with plastic pipes

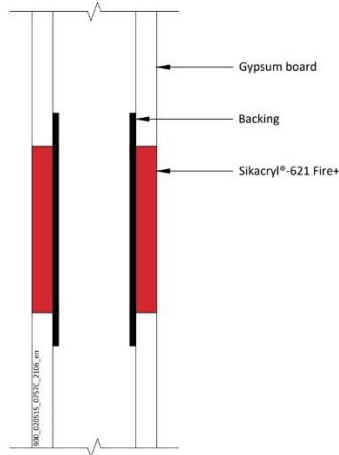
| Pipe material | Size | Classification |
|--|-----------------------------------|----------------|
| PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1 | 6-32 mm diameter/1.0-2.4 mm wall | EI 240 U/C |
| PP pipe according to EN 1451-1 or DIN 8077/8078 | 32 mm diameter/2.0-4.4 mm wall | EI 180 C/U |
| | 12-32 mm diameter/1.8-4.4 mm wall | EI 240 C/U |
| 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 |

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

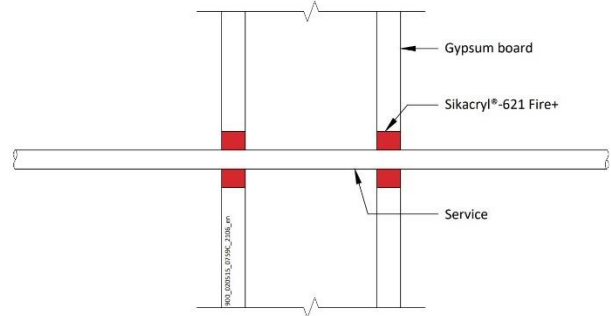
A.2.1 Double side penetration seal with cables

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:



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 | | | |
| 4 mm diameter / 0.7-2.0 mm wall | 12.5 mm | None | E 60 C/U, EI 45 C/U |
| 5-22 mm diameter / 0.7-11 mm wall* | | | E 60 C/U, EI 30 C/U |
| Mild or stainless steel pipe with minimum 80 kg/m ³ density stone wool insulation Continuous Sustained (CS) | | | |
| 40 mm diameter / 1-14.2 mm wall, 20 mm insulation | 12.5 mm | None | E 60 C/U, EI 45 C/U |
| 40-324 mm diameter / 1.0-14.2 mm wall, 30 mm insulation* | | | |
| PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1 | | | |
| 6-32 mm \varnothing / 1.0-1.8 mm wall, with bundle of cables up to 21 mm diameter* | 12.5 mm | None | E 60 U/C, EI 45 U/C |
| PP pipe according to EN 1451-1 or DIN 8077/8078 | | | |
| 20 mm \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 | | | |
| 20 mm \varnothing / 2.0 mm wall | 12.5 mm | None | EI 45 U/C |
| 21-32 mm \varnothing / 2.0-3.0 mm wall* | | | EI 30 U/C |
| 21-32 mm \varnothing / 2.0-3.0 mm wall, with bundle of cables up to 21 mm* diameter | | | E 45 U/C, EI 30 U/C |

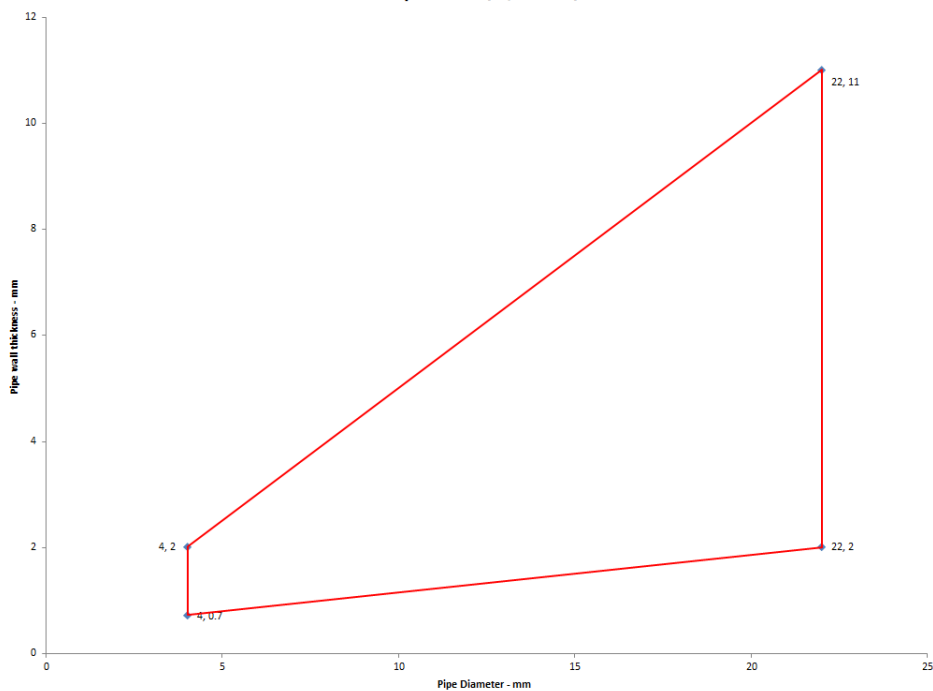
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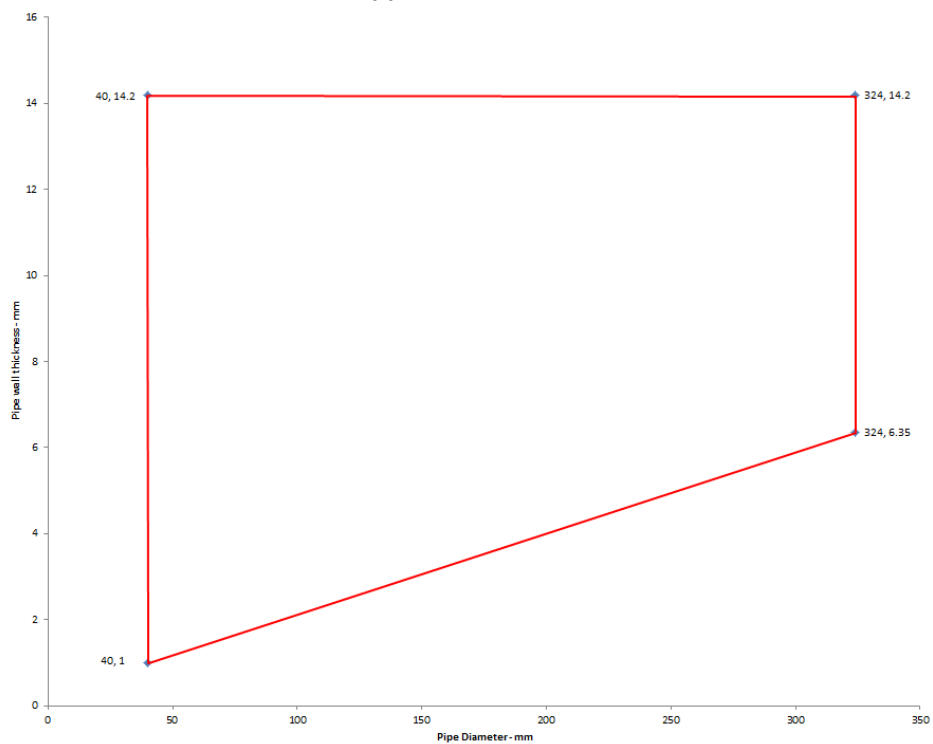
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* See below graphs for interpolated pipe sizes

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



Steel pipes with 30 mm Insulation



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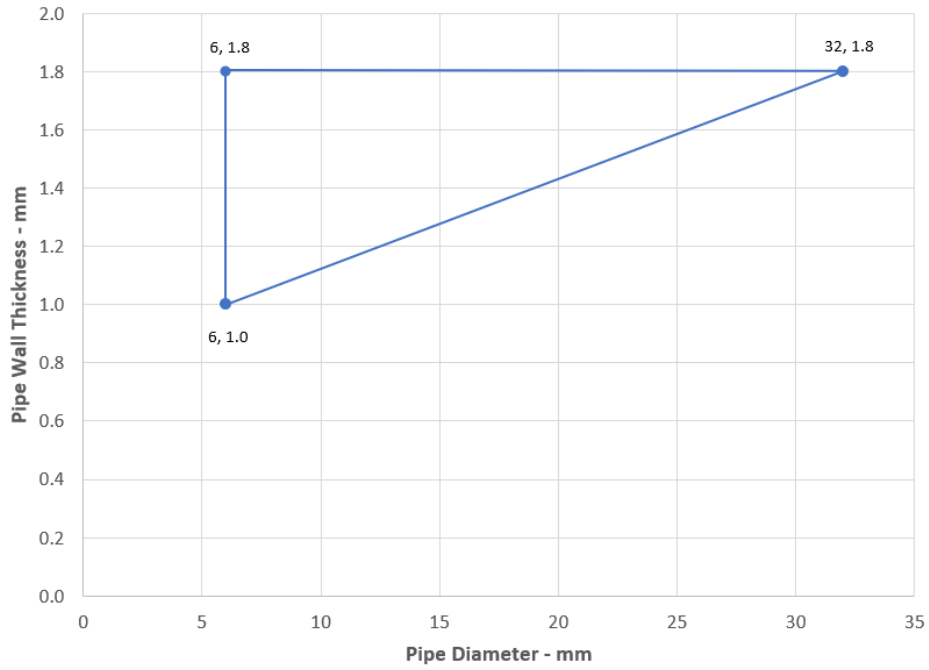
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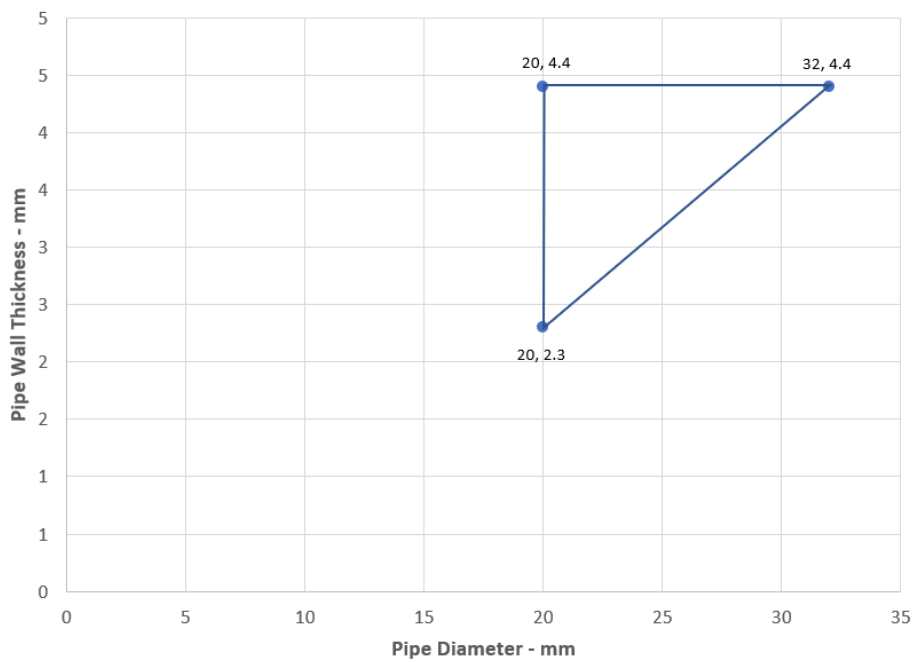
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PVC-U Pipes - U/C



PP Pipes - EI 30 U/C



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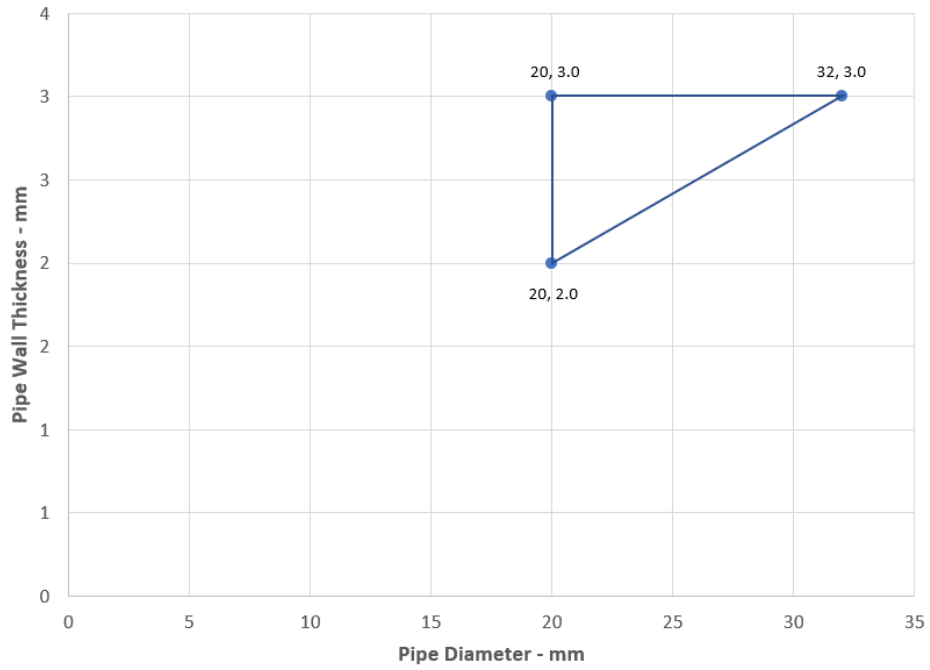
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PE Pipes - EI 30 U/C



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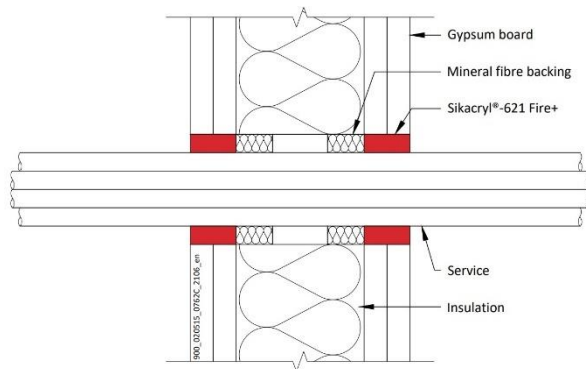


A.3 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 100 mm

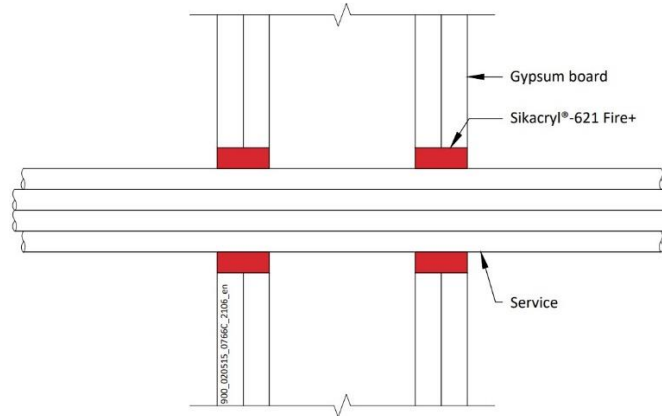
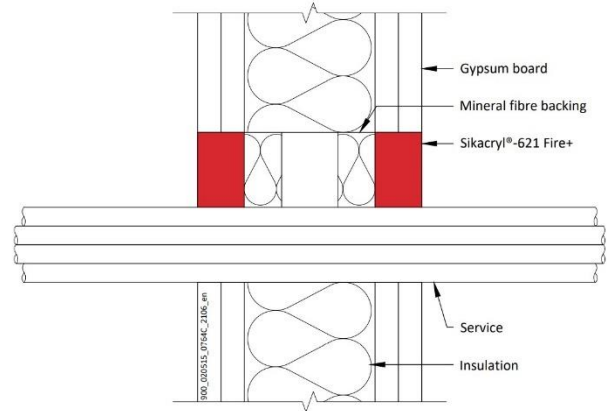
A.3.1 Double side penetration seal with cables

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

Construction details:



Construction details:



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 mineral fibre | | 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 |

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

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| 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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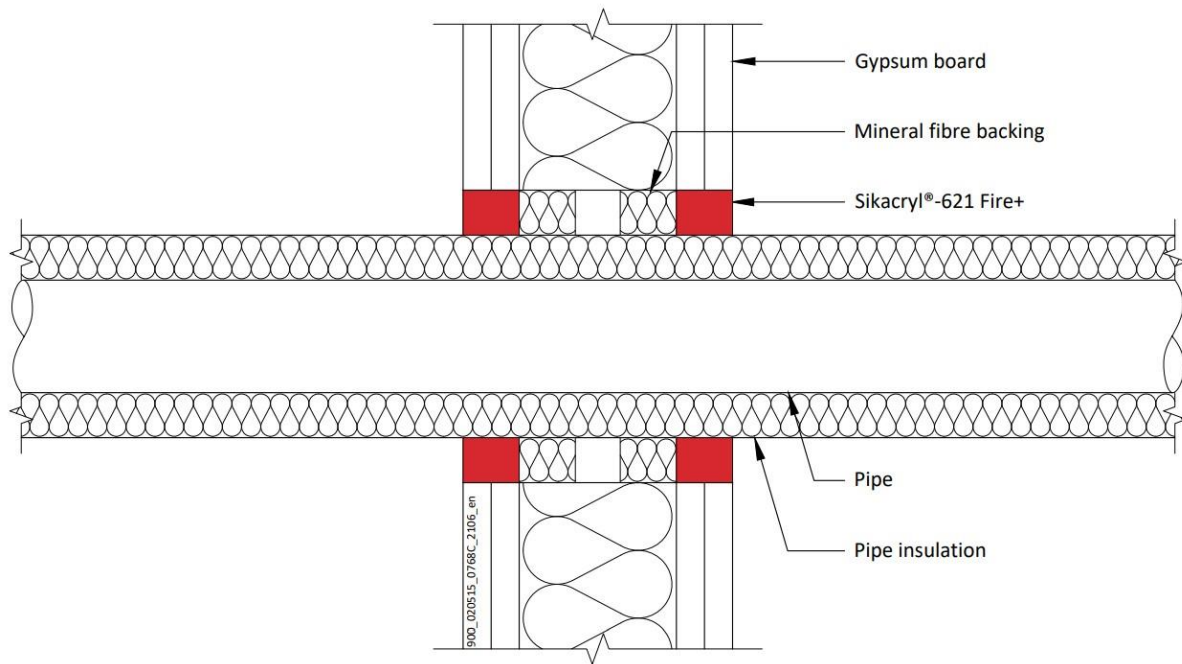
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A.3.2 Double side penetration seal with metallic pipes

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 mineral fibre', 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 mineral fibre | | 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* | | | | |

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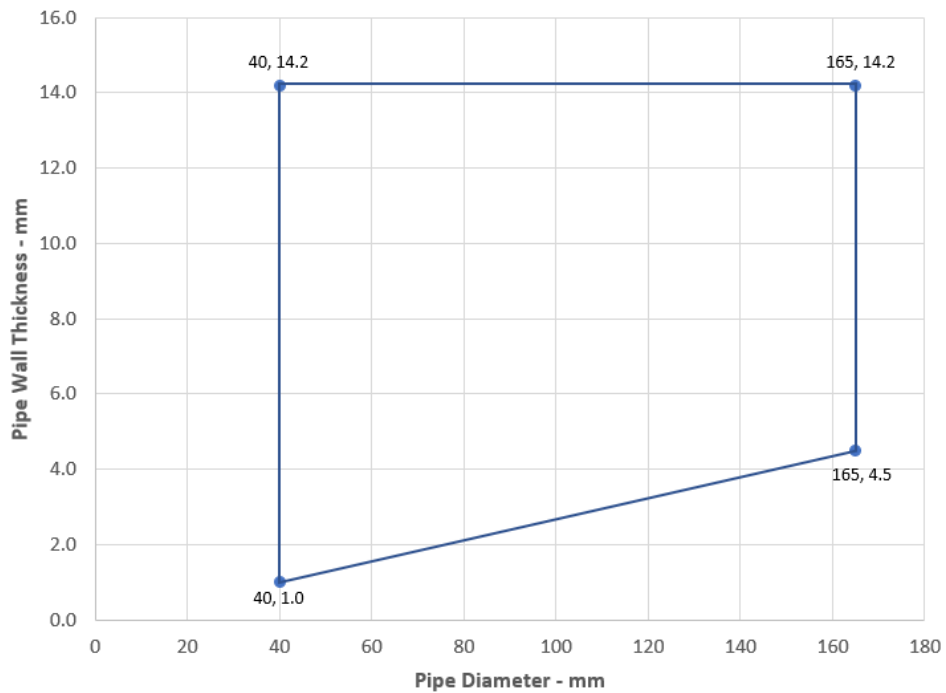
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| | | | | |
|-----------------------------------|--|--|--|--|
| 140 mm diameter/3.8-14.2 mm wall* | | | | |
| 165 mm diameter/4.5-14.2 mm wall* | | | | |

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

Steel Pipes with Elastomeric Insulation - C/U



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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 mineral fibre | 9 mm Elastomeric insulation minimum class B-s3,d0 | EI 120 C/C |
| 12-54 mm diameter/1-14.2 mm wall* | | | 9-13 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* | | | 13-25 mm Elastomeric insulation minimum class B-s3,d0 | 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 | 9 mm Elastomeric insulation minimum class B-s3,d0 |
| 16 mm diameter/2.25 mm wall | 25 mm | 25 mm AES mineral fibre | 9-25 mm Elastomeric insulation minimum class B-s3,d0 | EI 60 C/C |
| 20 mm diameter/2.5 mm wall | | | | |
| 26 mm diameter/3 mm wall | | | | |
| 32 mm diameter/3 mm wall | | | | |
| 40 mm diameter/3.5 mm wall | | | | |
| 50 mm diameter/4 mm wall | | | | |
| 63 mm diameter/4.5 mm wall | | | | |
| 75 mm diameter/4.7 mm wall | | | | |

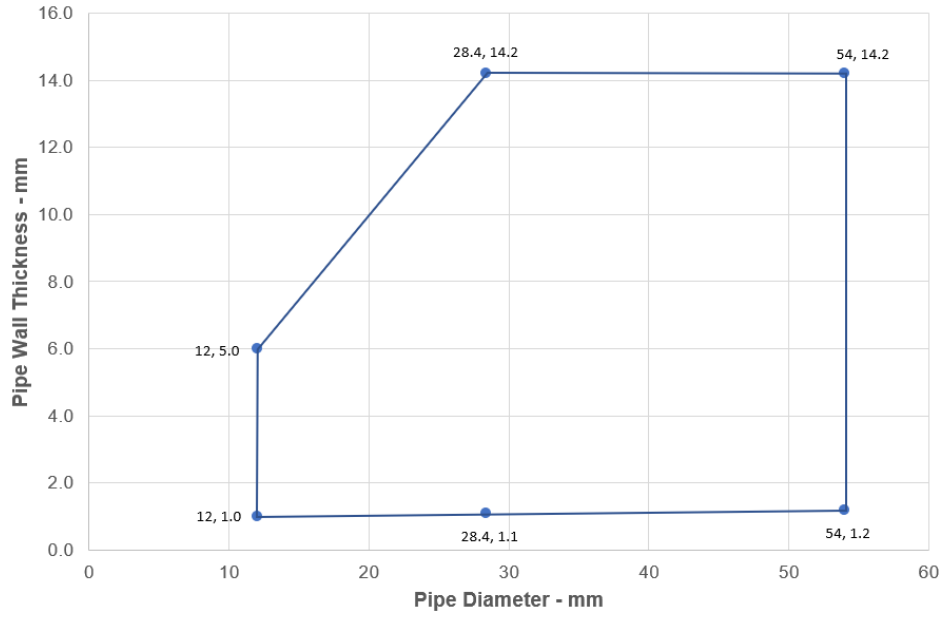
* Typical pipe diameters shown, see below graph for intermediate sizes

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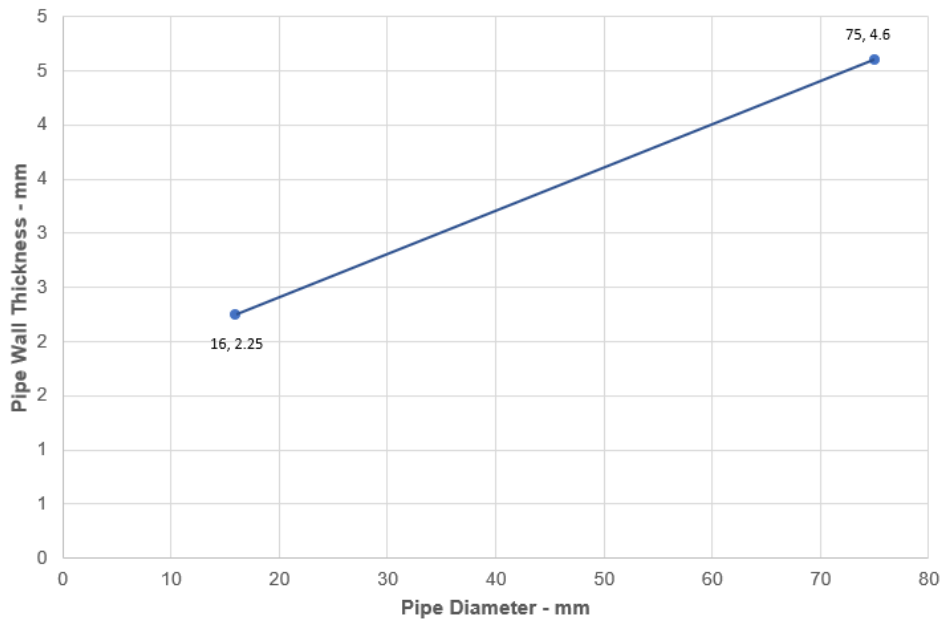
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Copper or Steel Pipes with Elastomeric Insulation - C/C



Alupex Pipes with Elastomeric Insulation - C/C



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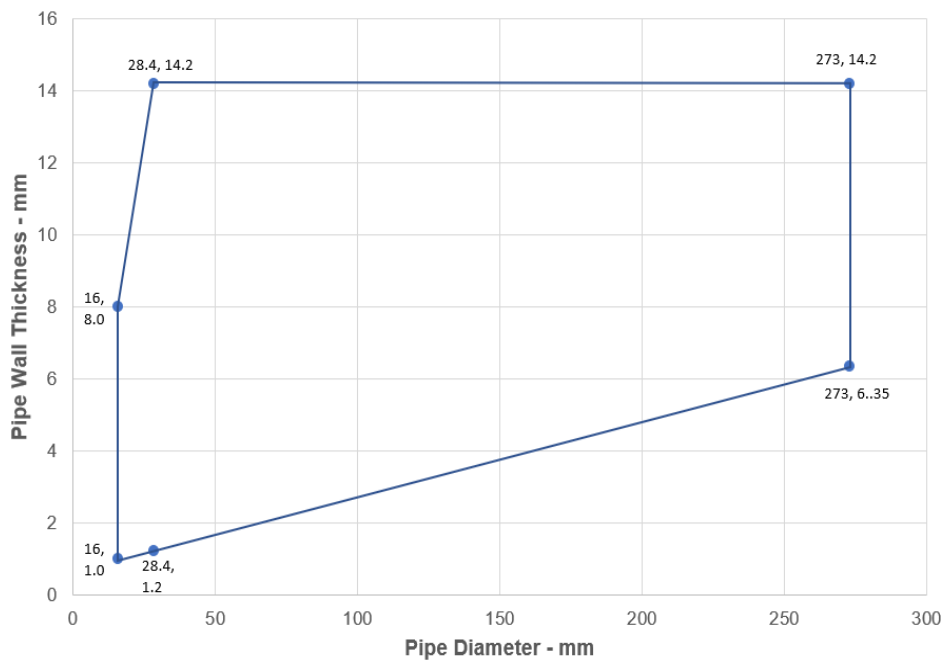
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A.3.2.1

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



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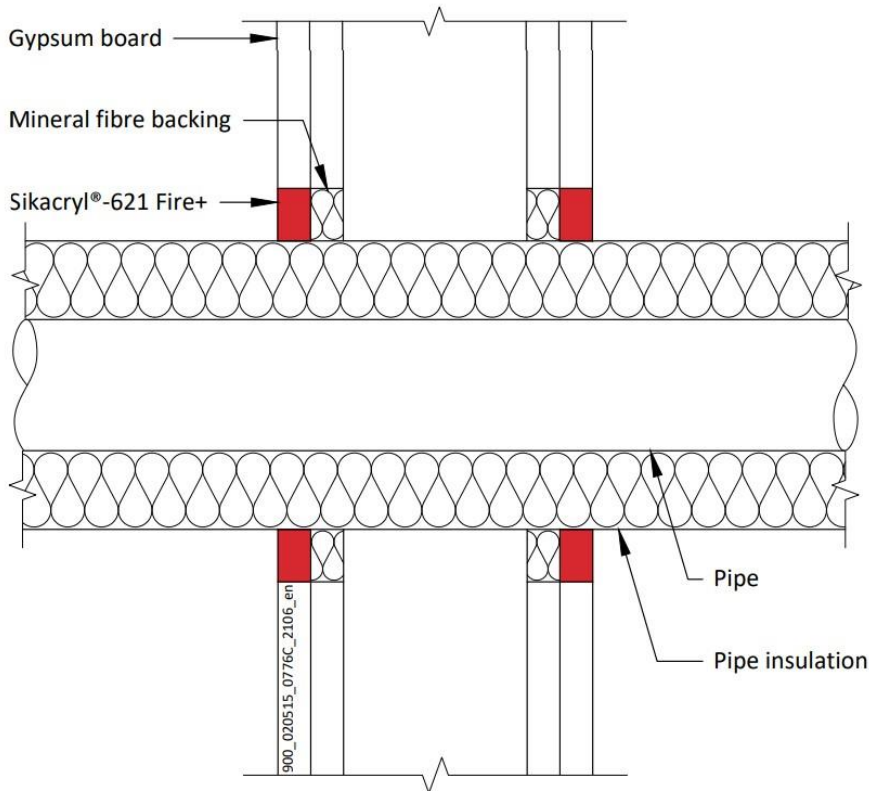
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A.3.3 Double side penetration seal with metallic pipes

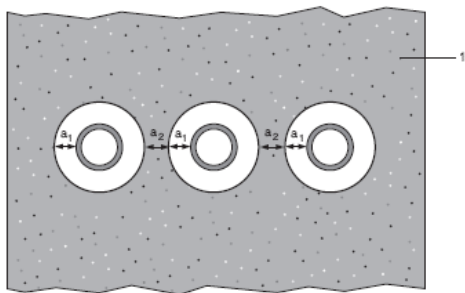
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 12.5 mm Sikacryl-621 Fire+ to both sides of the wall, backed with 12.5 mm deep stone wool insulation minimum 35 kg/m³. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 504 mm Ø

Construction details:



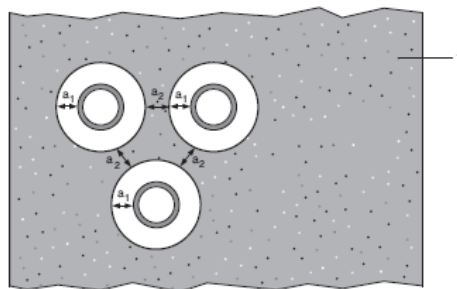
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

Declaration of Performance

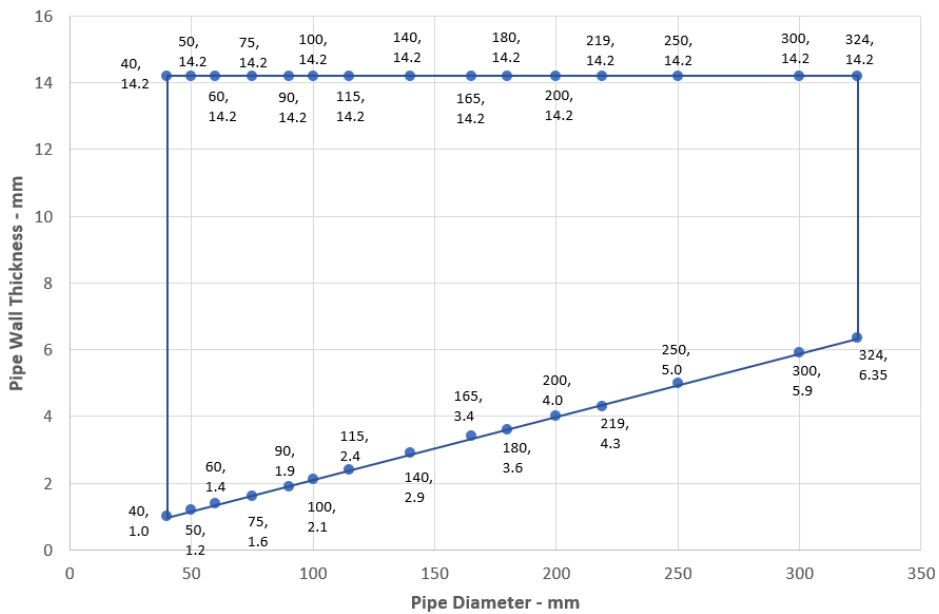
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A.3.3.1 Double side penetration seal with pipes

| 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* | | |

Steel Pipes with Mineral Wool Insulation - C/U



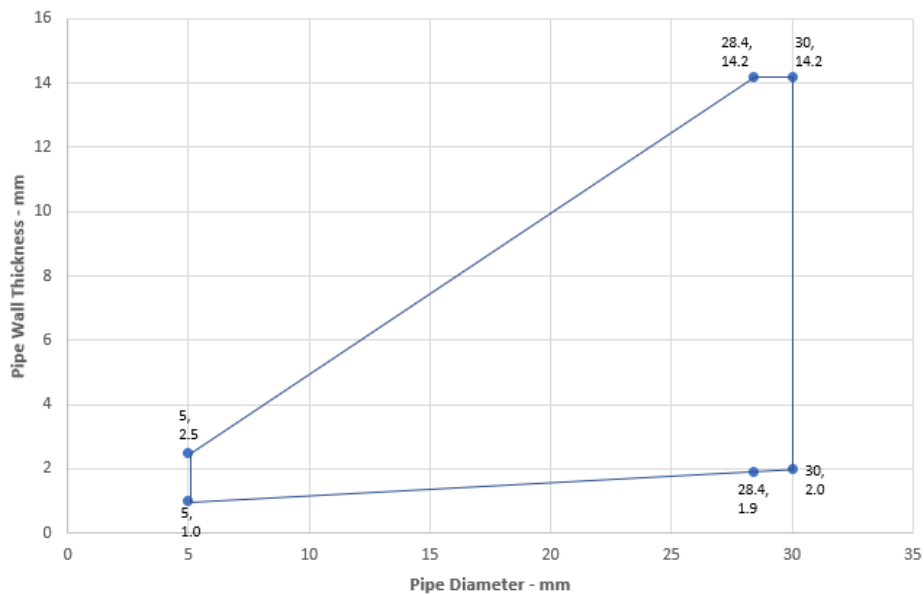
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| Services | Insulation | Classification |
|---|--|----------------------|
| PEX pipe in pipe system | | |
| 15 mm diameter x 2.5 mm wall inner /25mm diameter outer | None | EI 120 C/C |
| Alupex pipe | | |
| 16-20 mm diameter/2.0 mm wall | None | 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 |
| 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 |

* See below graphs for interpolated pipe sizes

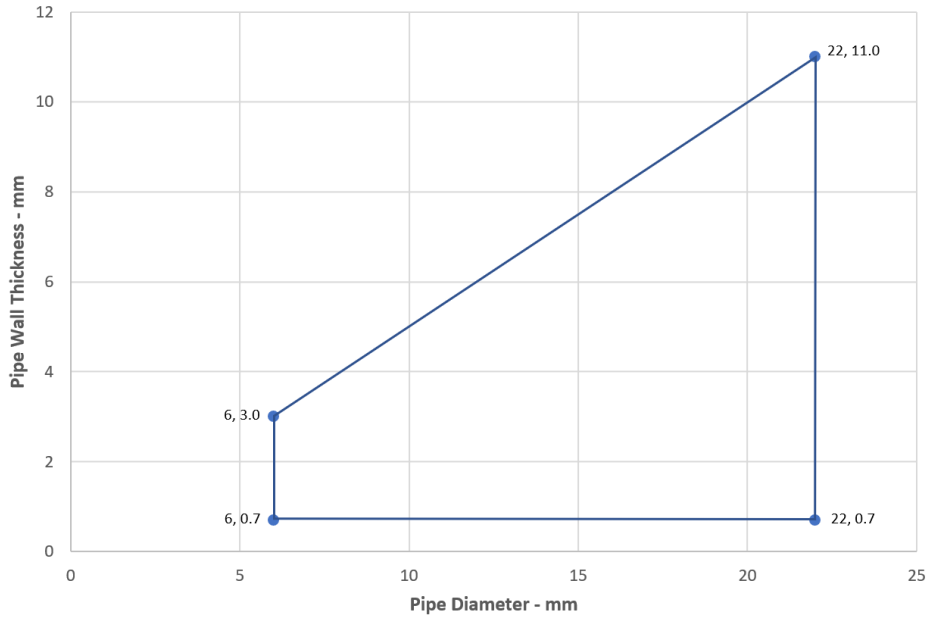
Steel Pipes - C/C



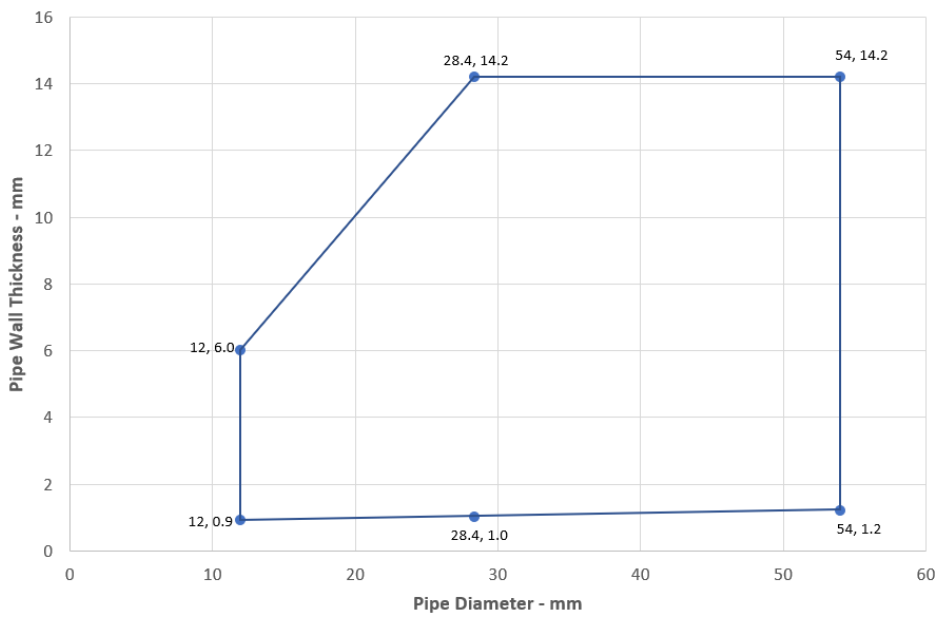
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Copper or Steel Pipes - C/C



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



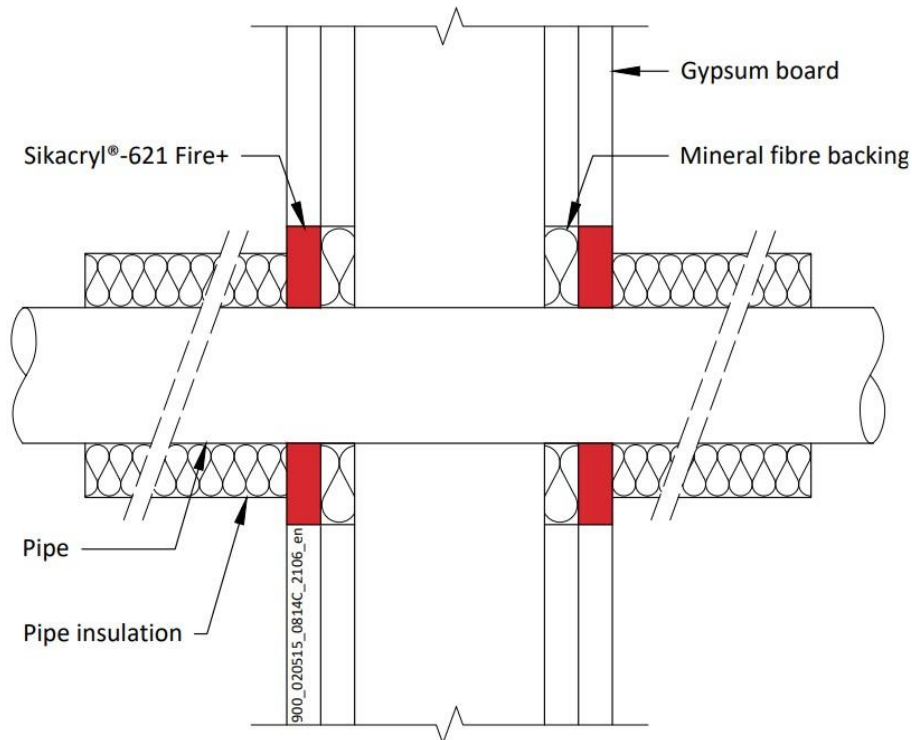
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A.3.4 Double side penetration seal with composite pipes

Penetration Seal: CI (Continuous Interrupted) or CS (Continuous Sustained) 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:



A.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 | | | | |

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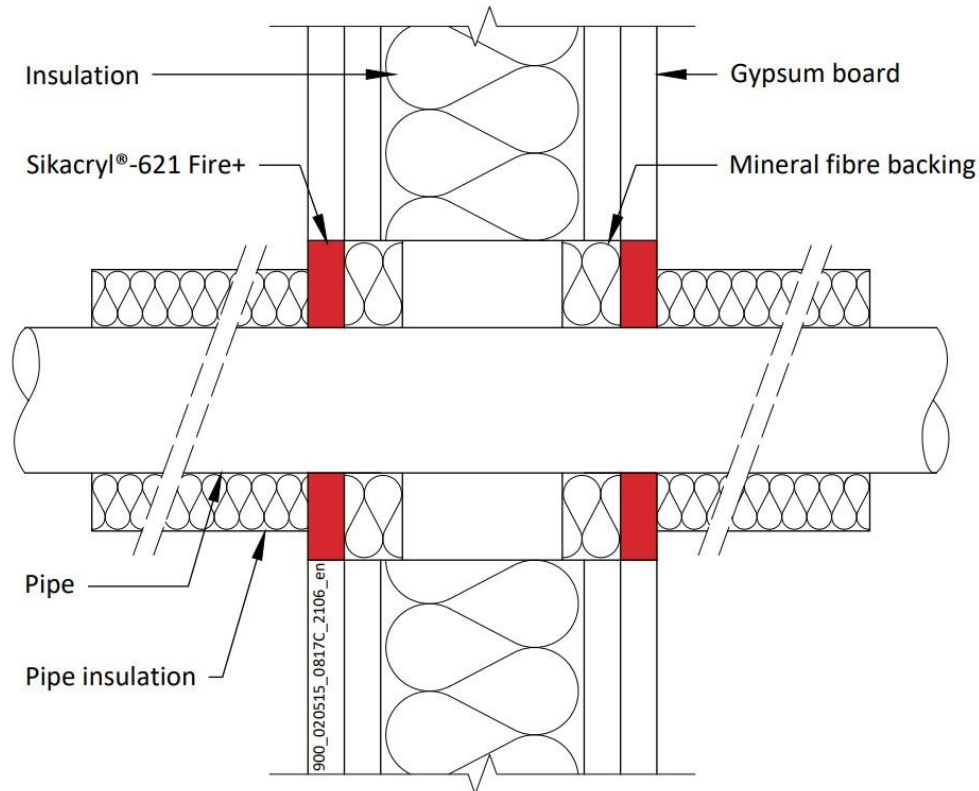
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A.3.5 Double side penetration seal with metallic (and composite) pipes

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 mineral fibre'.

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 |
| 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 mineral fibre | EI 60 C/U |

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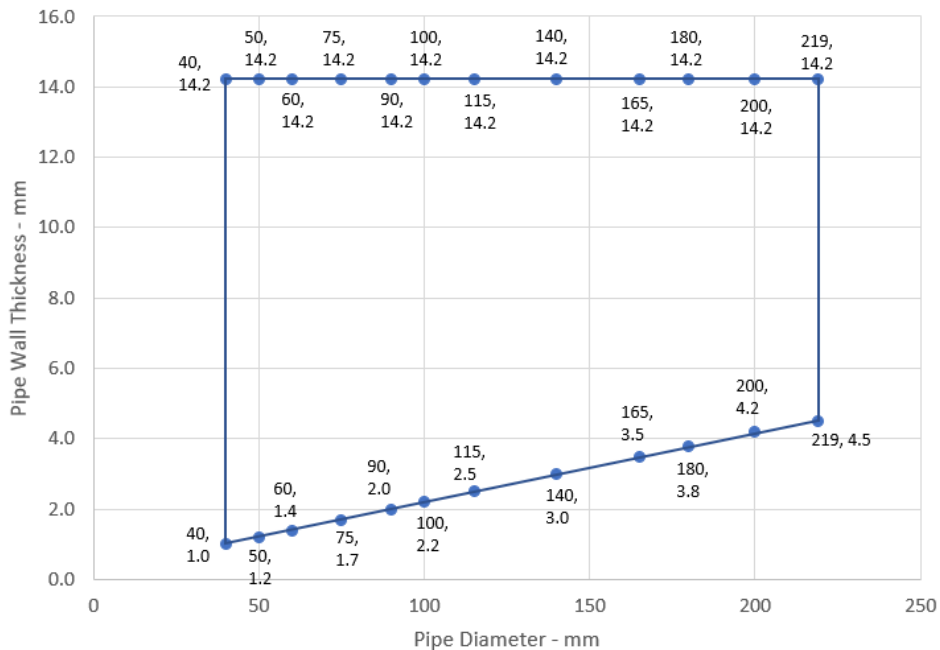
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| Services | Sealant depth | Backing (minimum) | Insulation (minimum) | Classification |
|---|---------------|--------------------------------------|--|--------------------------------------|
| Mild or stainless steel pipe | | | | |
| Maximum aperture 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* | | | 12.5 mm | 20mm Stone wool 40 kg/m ³ |
| 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* | 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* | | | | |

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

Steel Pipes with Mineral Wool Insulation - C/U



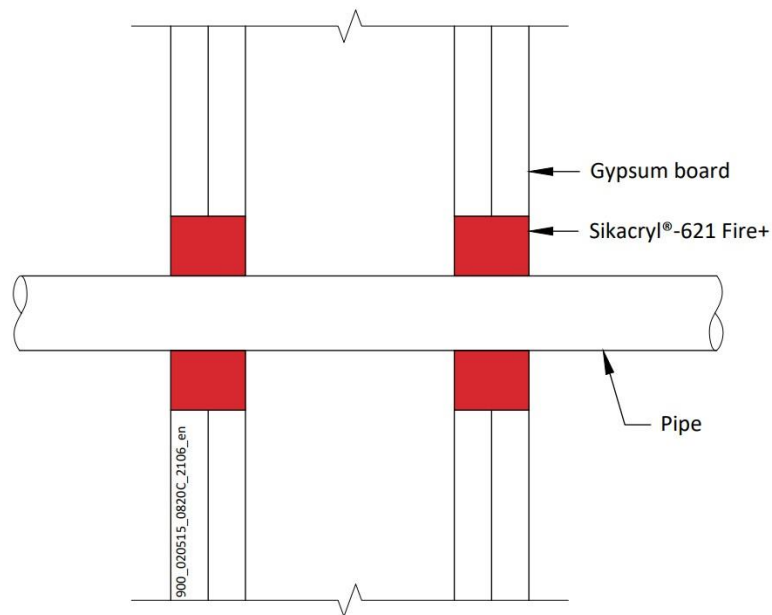
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A.3.6 Double side penetration seal with plastic pipes

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 | EI 90 C/C |
| | | | E 60 C/C, EI 45 C/C | |

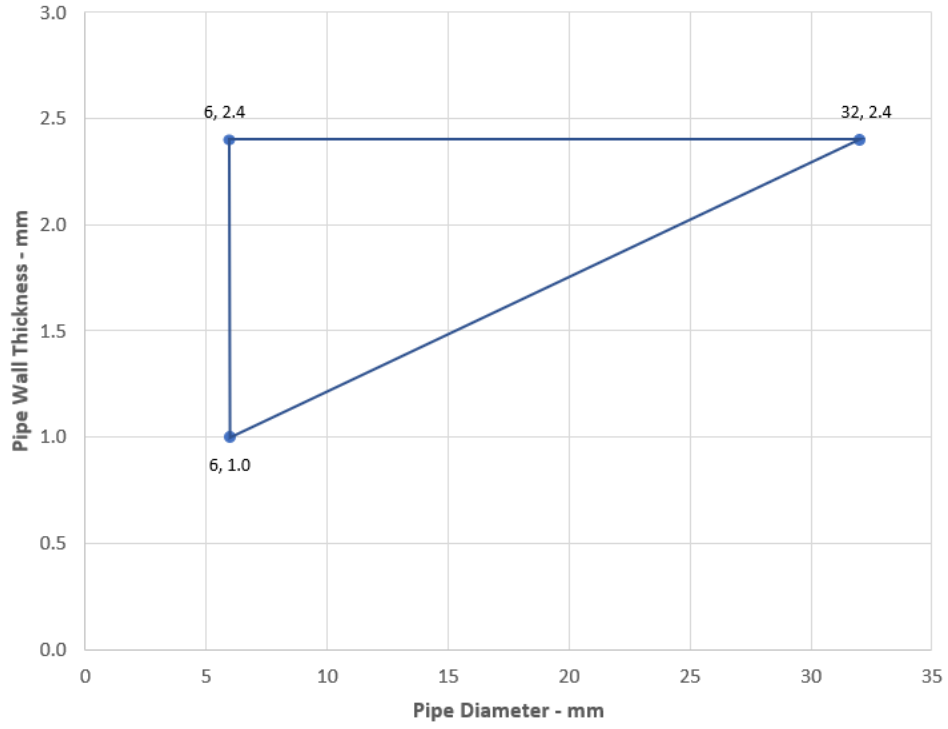
* See below graphs for interpolated pipe sizes

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PVC-U Pipes - U/C



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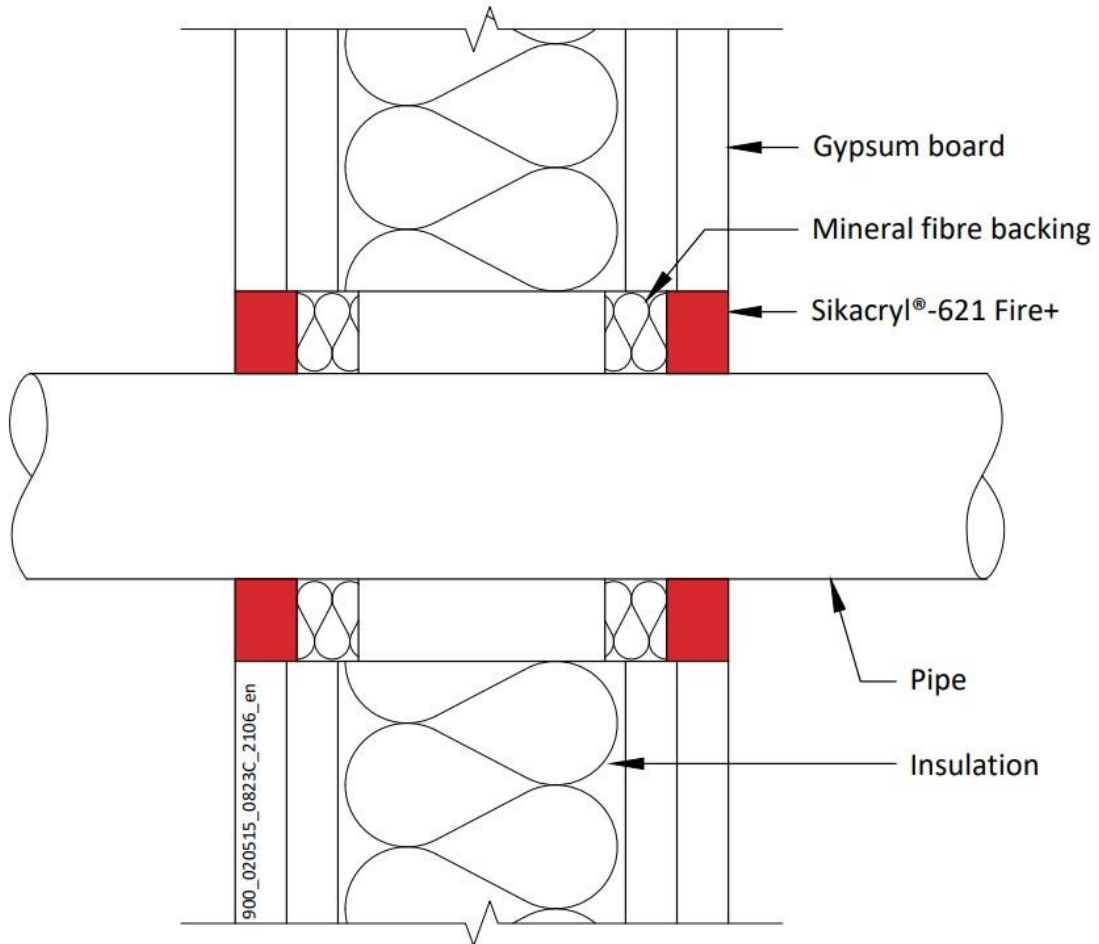


A.4 Flexible and rigid wall constructions according to 2.2) with wall thickness of minimum 120 mm

A.4.1 Double side penetration seal with cables

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

Construction details:



A.4.1.1

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

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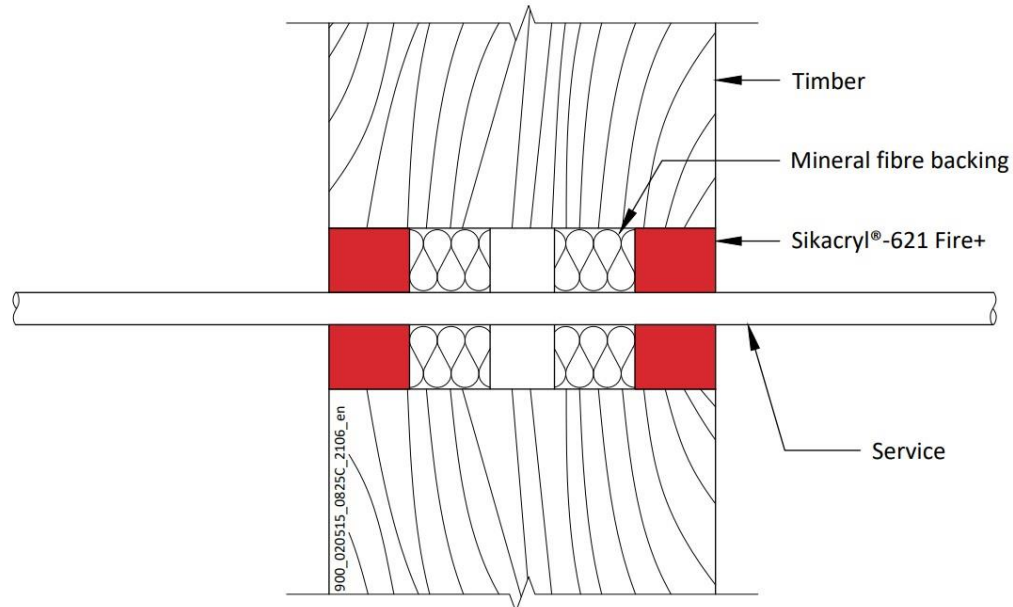
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A.5 Timber wall constructions with wall thickness of minimum 100 mm

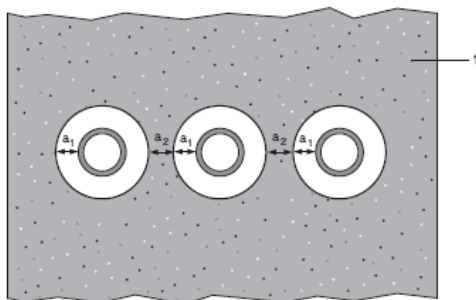
A.5.1 Double side penetration seal with cables

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 |

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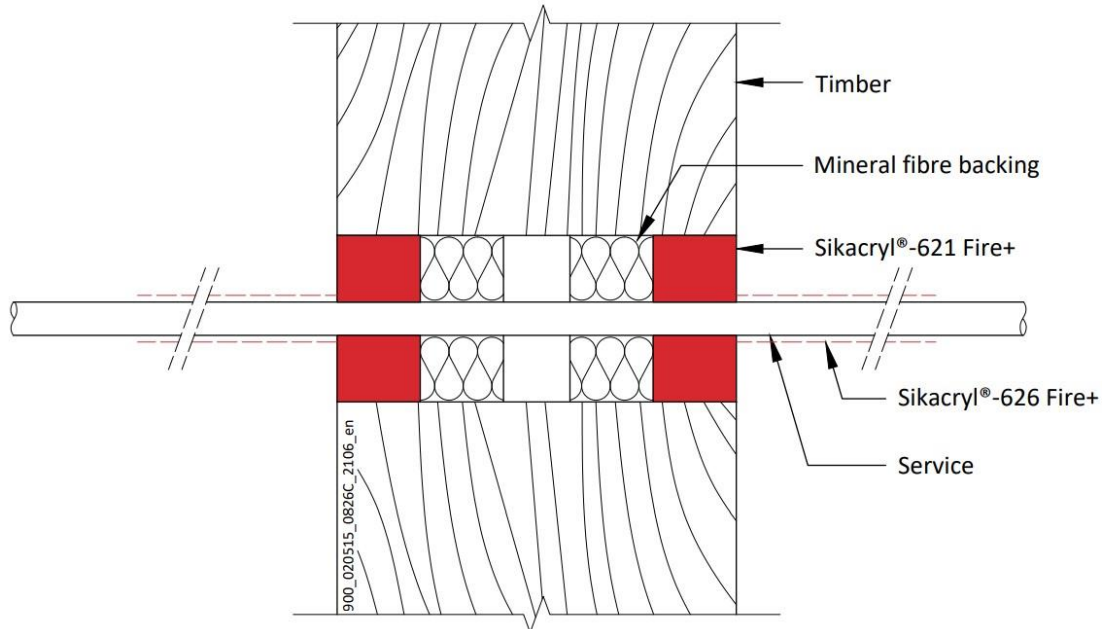
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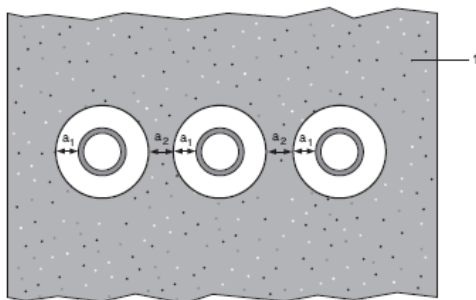
A.5.2 Double side penetration seal with cables and Sikacryl®-626 Fire+

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 |

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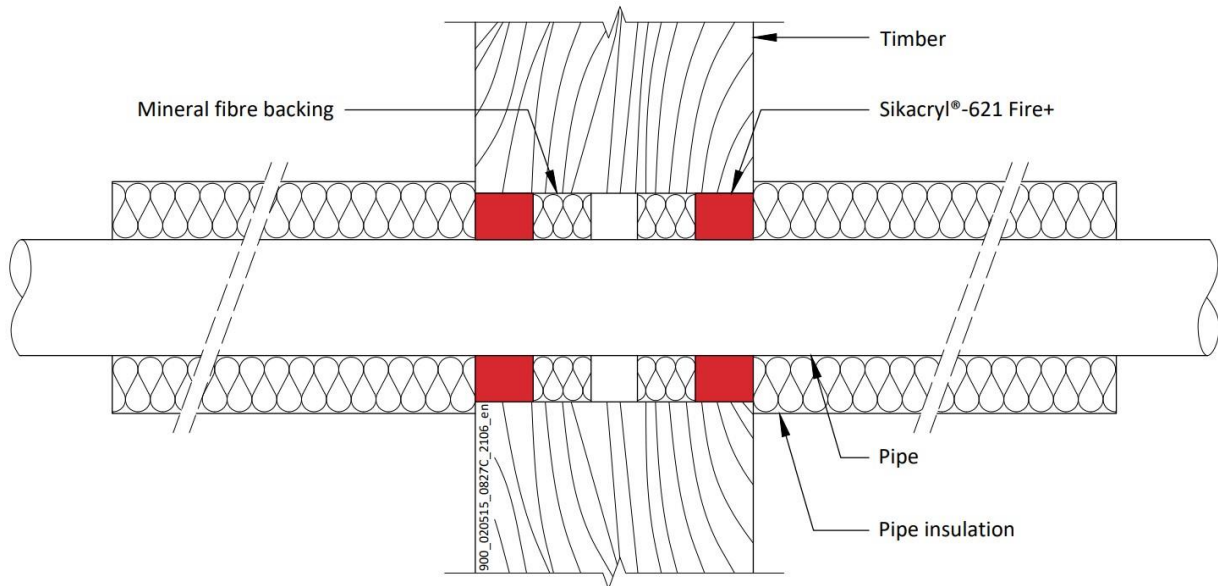
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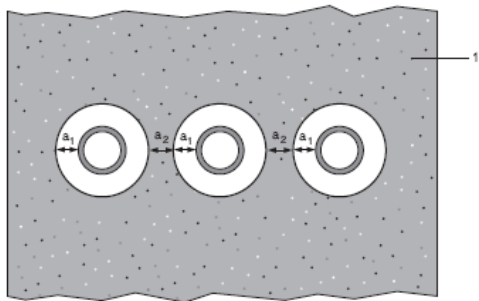
A.5.3 Double side penetration seal with metallic pipes

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

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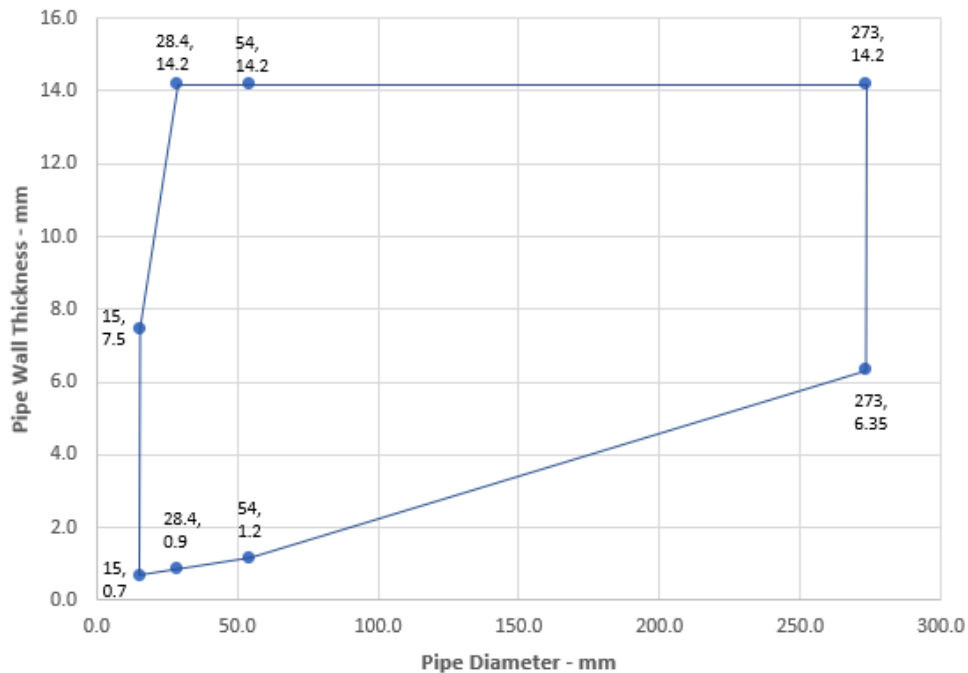
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A.5.3.1

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

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

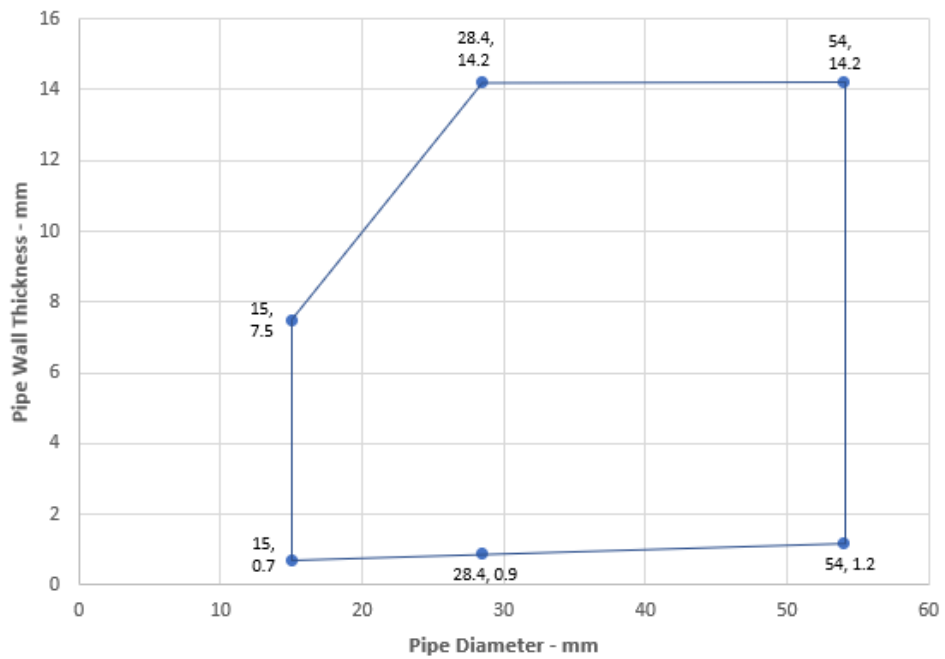
Steel Pipes with Glass Wool or Mineral Wool Insulation - C/C



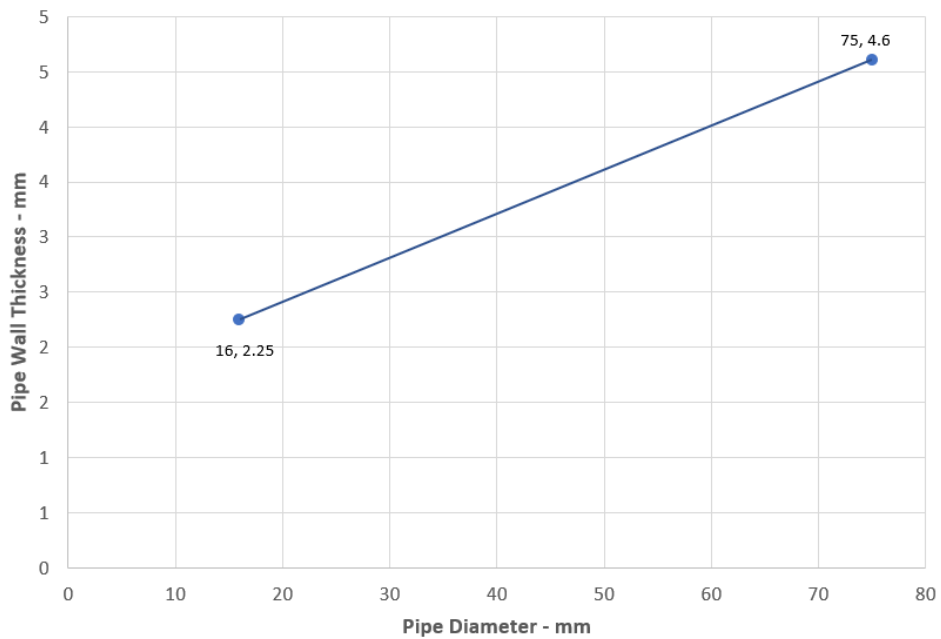
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**Copper or Steel Pipes with Glass Wool or Mineral Wool
Insulation - C/C**



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



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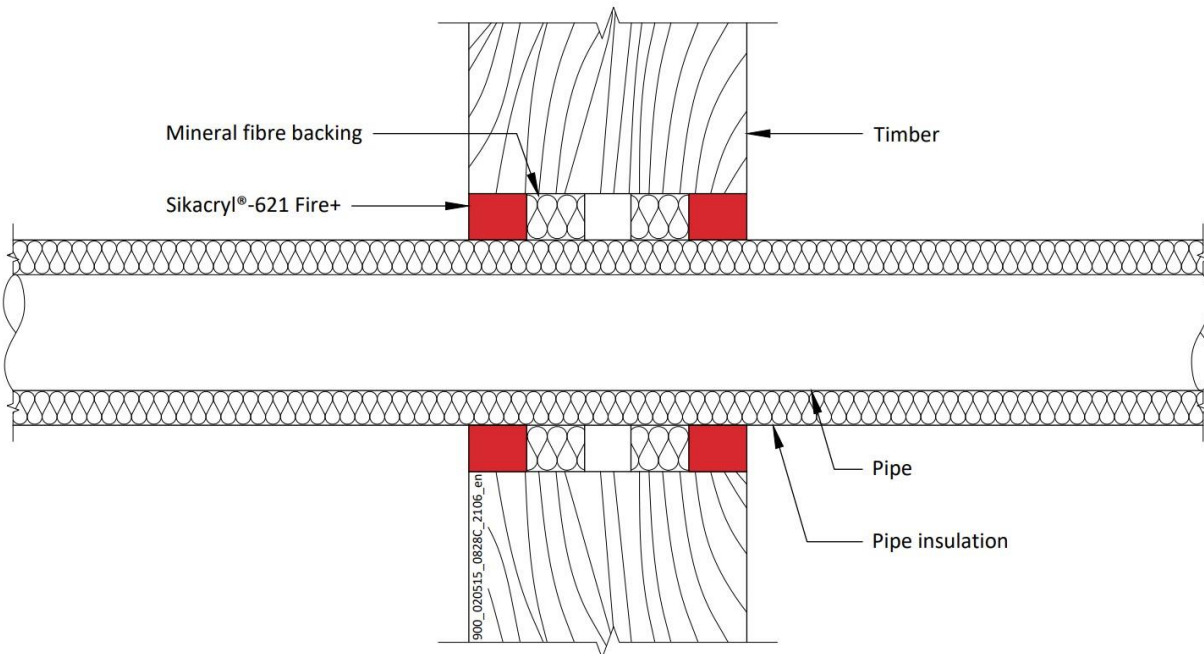
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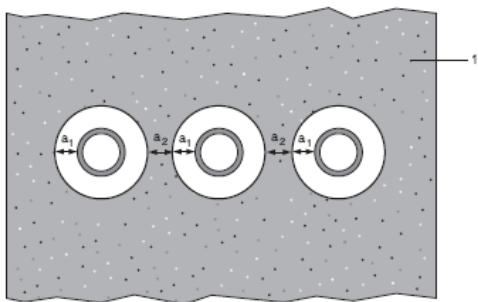
A.5.4 Double side penetration seal with metallic pipes

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

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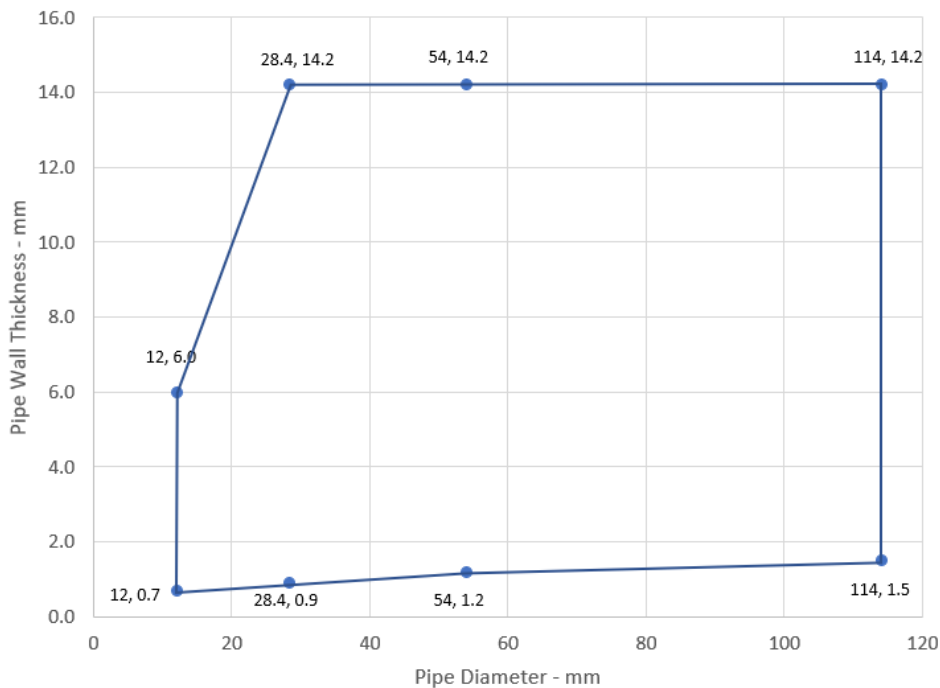
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A.5.4.1

| 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

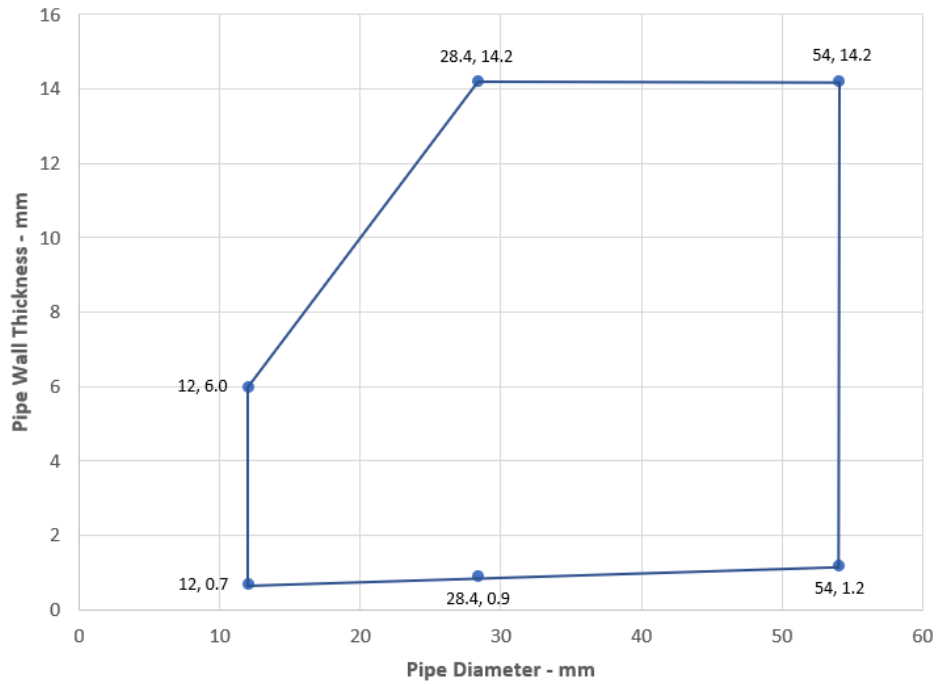


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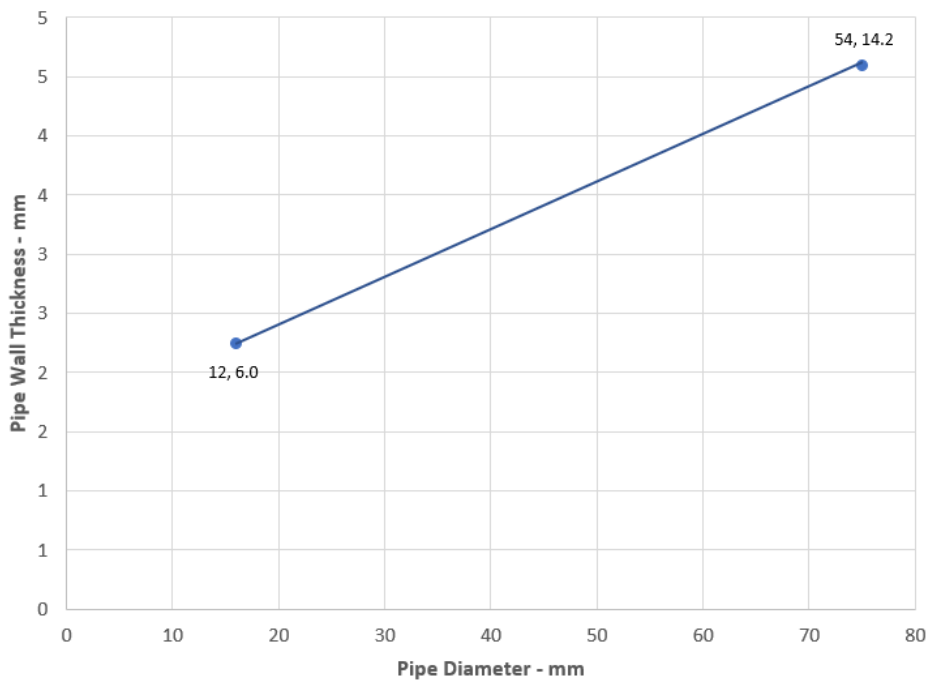
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Copper or Steel Pipes with Elastomeric Insulation - C/C



Alupex Pipes with Elastomeric Insulation - C/C



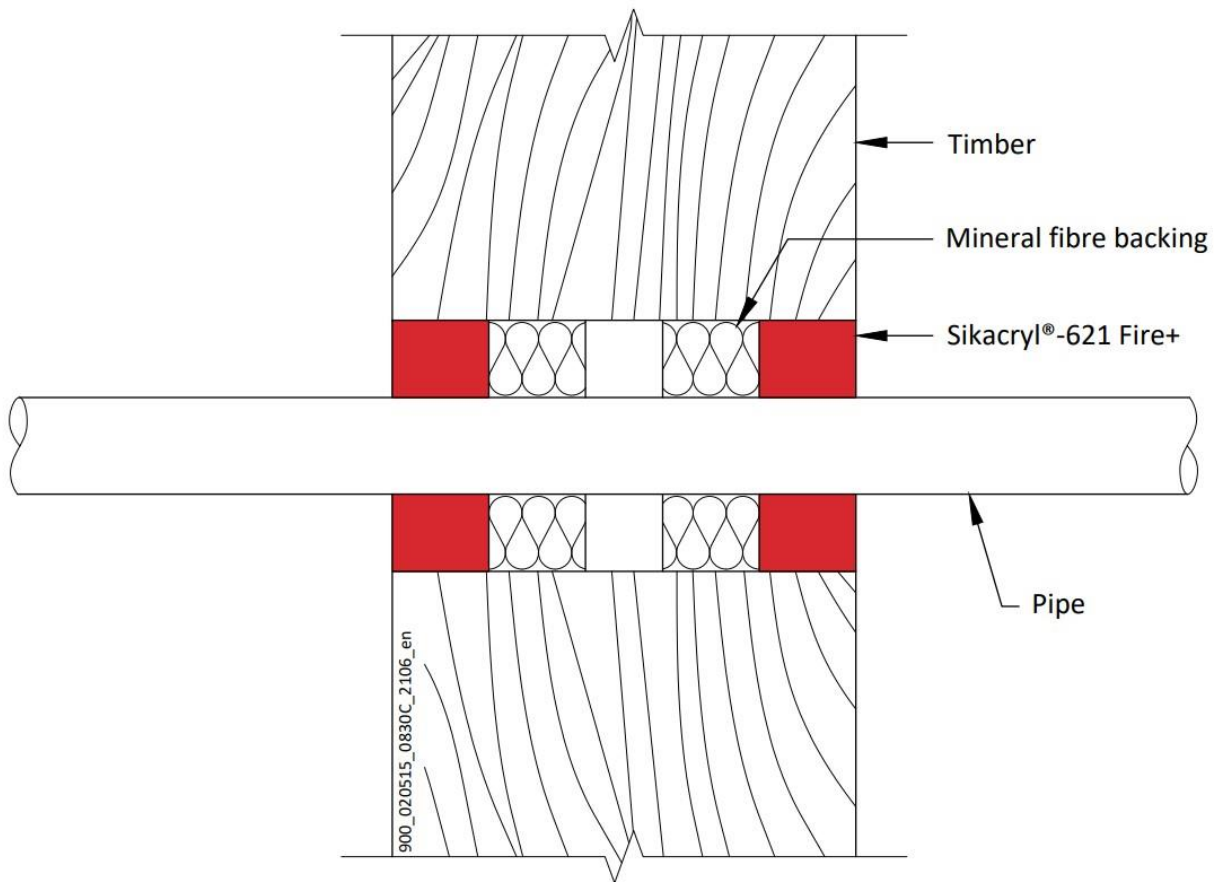
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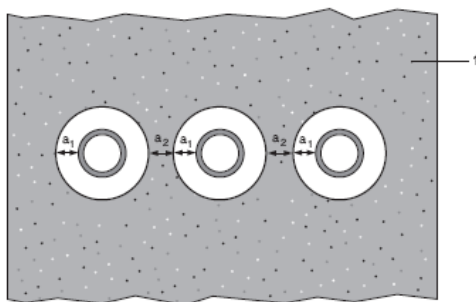
A.5.5 Double side penetration seal with plastic pipes and composite pipes

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

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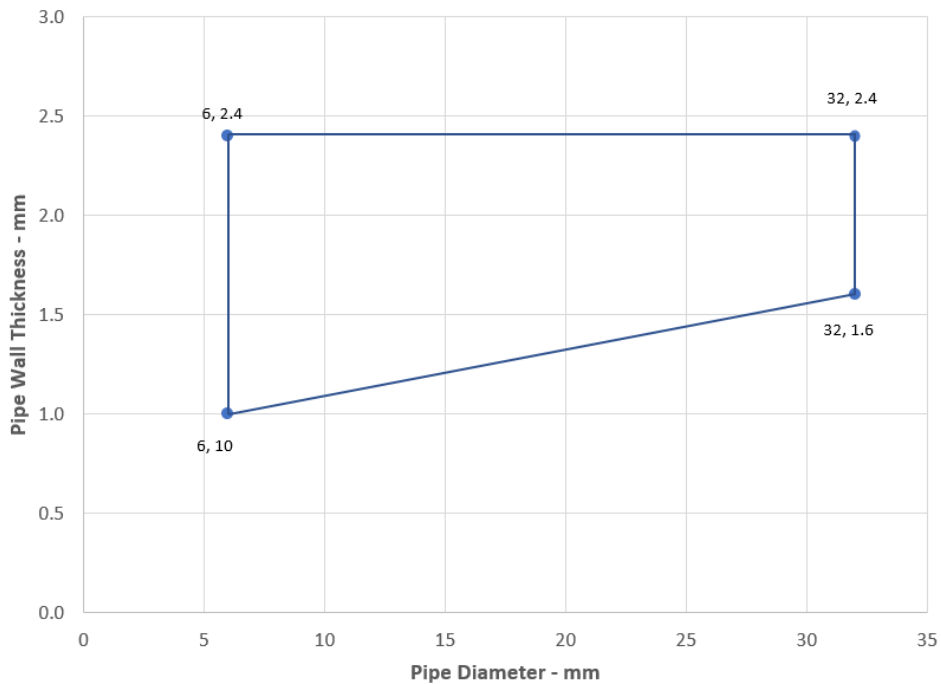
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A.5.5.1

| 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

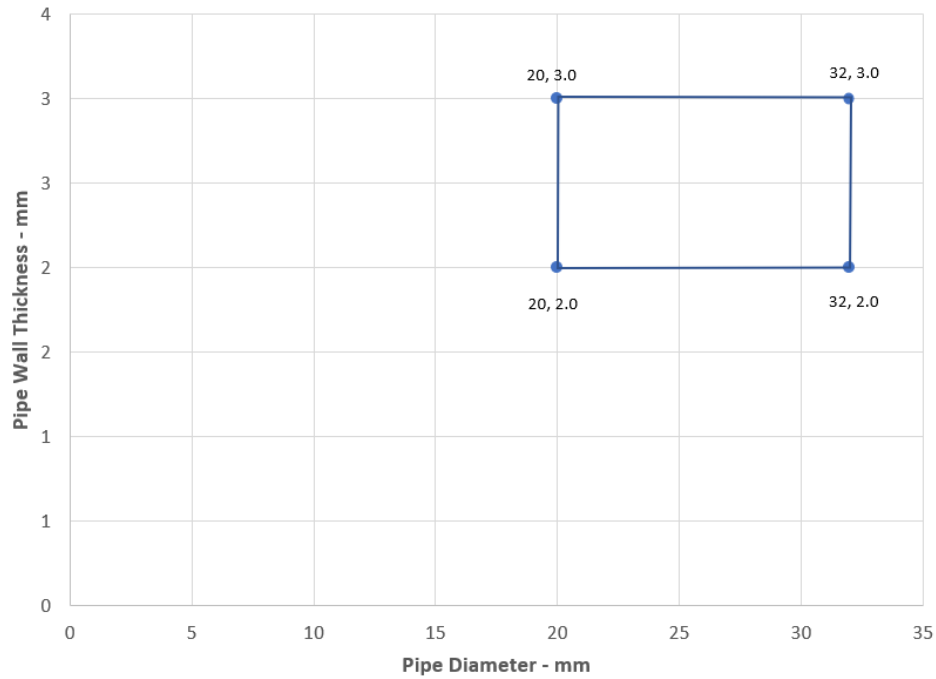
PVC-U Pipes EI 90 - U/C



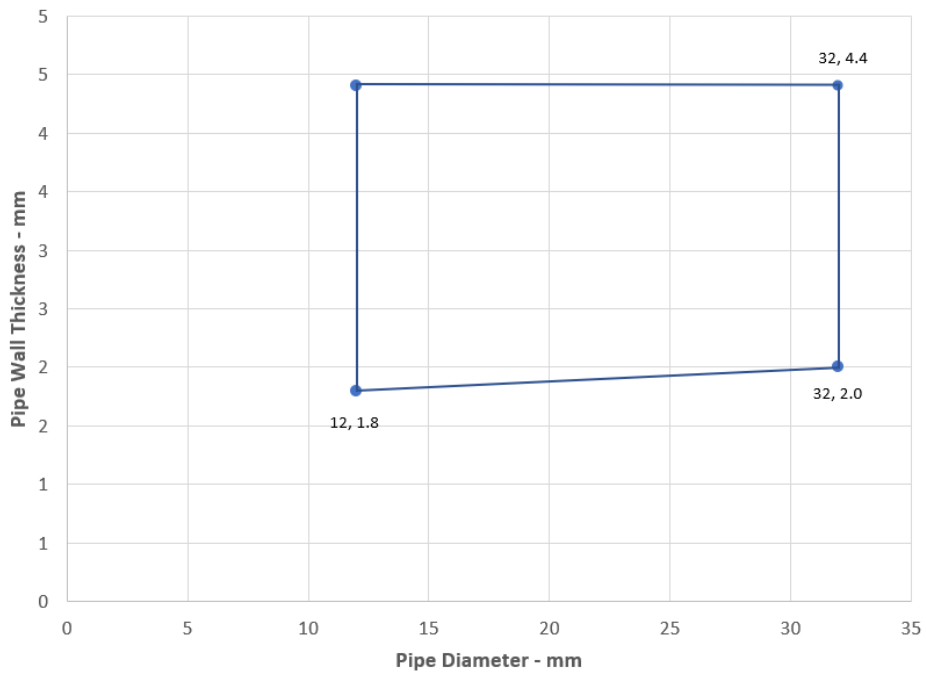
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PE Pipes EI 90 - U/C



PP Pipes EI 90 - U/C



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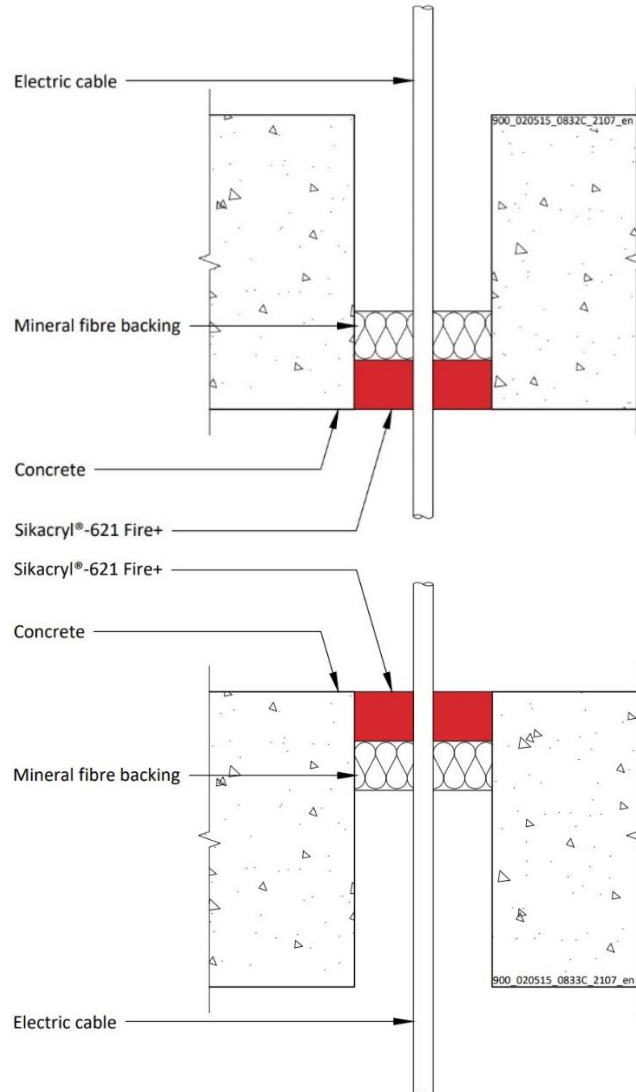


A.6 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

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 mineral fibre'.

Construction details:



A.6.1.1

| Services | Sealant depth | Backing (minimum) | Aperture (maximum) | Classification |
|--|---------------|------------------------------|--------------------------|----------------|
| Single electrical cables up to 21 mm Ø | 25 mm | AES mineral fibre 25 mm deep | 82 mm Ø or 100 x 1000 mm | E 120, EI 60 |

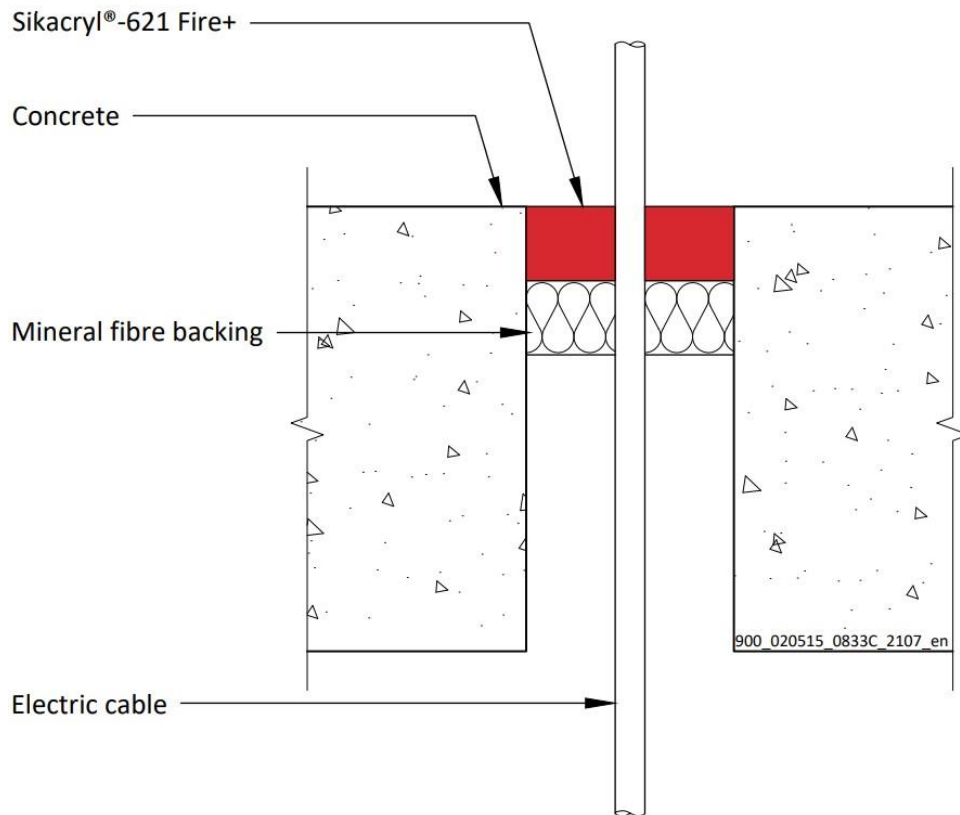
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A.6.2 Single side penetration seal with cables

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 mineral fibre. 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 mineral fibre | | EI 240 | | |
| | | E 120, EI 90 | | |
| Electric cables up to 21 mm diameter, single. | | | | |
| 23-27 mm diameter, 1 mm × 185 mm ² core, PVC sheath and insulation electrical cable, single | | | | EI 240 |

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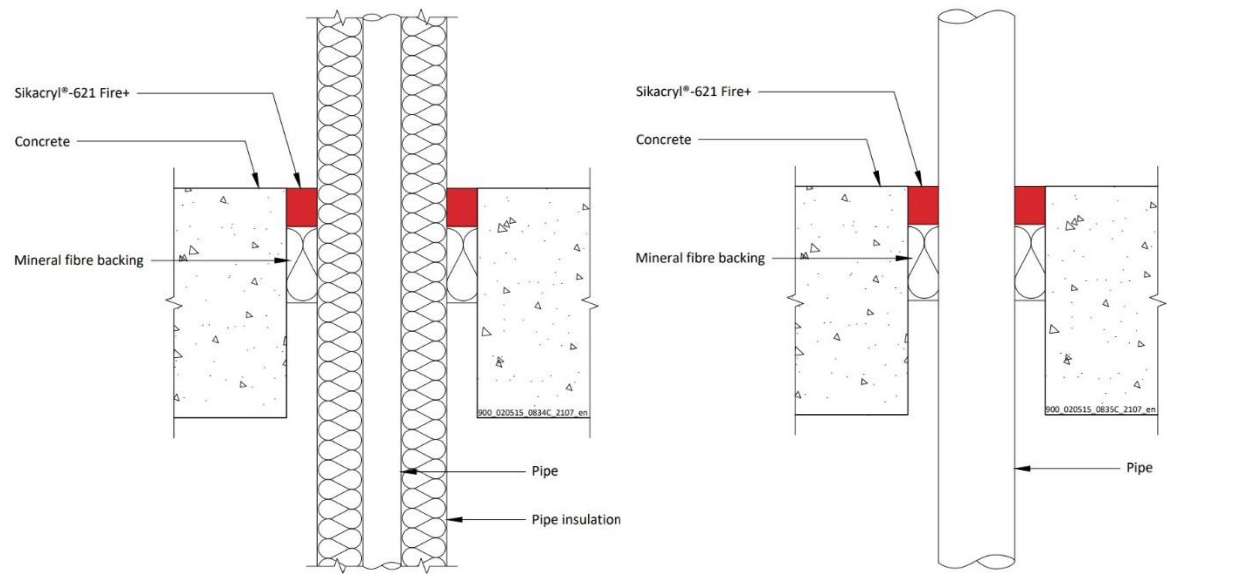
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A.6.3 Single side penetration seal with pipes

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:



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 |
| 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 |
| 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) | 25 mm | 48 mm stone wool | E 180 C/C, EI 120 C/C |

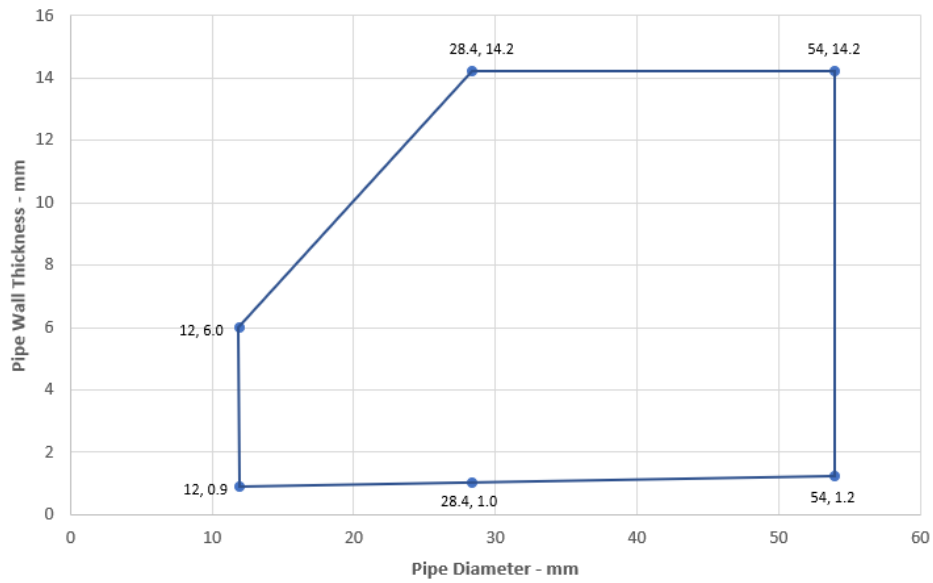
*See below graphs for interpolated pipe sizes

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



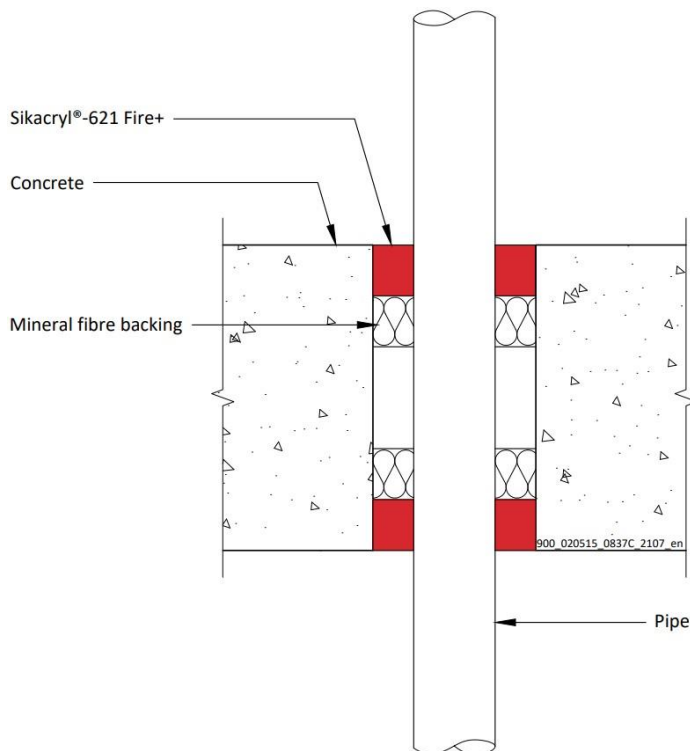
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A.6.4 Double side penetration seal with pipes

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 Ø/1.6-3.7 mm wall | 25 mm | 25 mm Stone wool | EI 240 U/C |
| Up to 40 mm Ø/1.6-3.7 mm wall, with bundle of cables up to 21 mm diameter | | | |
| PP pipe according to EN 1451-1 or DIN 8077/8078 | | | |
| 12 mm Ø/1.2 mm wall | 25 mm | 25 mm Stone wool | EI 240 U/C |
| 13-75 mm Ø/1.2-6.8 mm wall* | | | EI 90 U/C |
| Up to 40 mm Ø/1.2-1.8 mm wall, with bundle of cables up to 21 mm diameter | | | EI 180 U/C |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 | | | |
| 20-40 mm Ø/2.0-2.4 mm wall* | 25 mm | 25 mm Stone wool | EI 240 U/C |
| Up to 40 mm Ø/2.0-2.4 mm wall, with bundle of cables up to 21 mm diameter | | | EI 180 U/C |

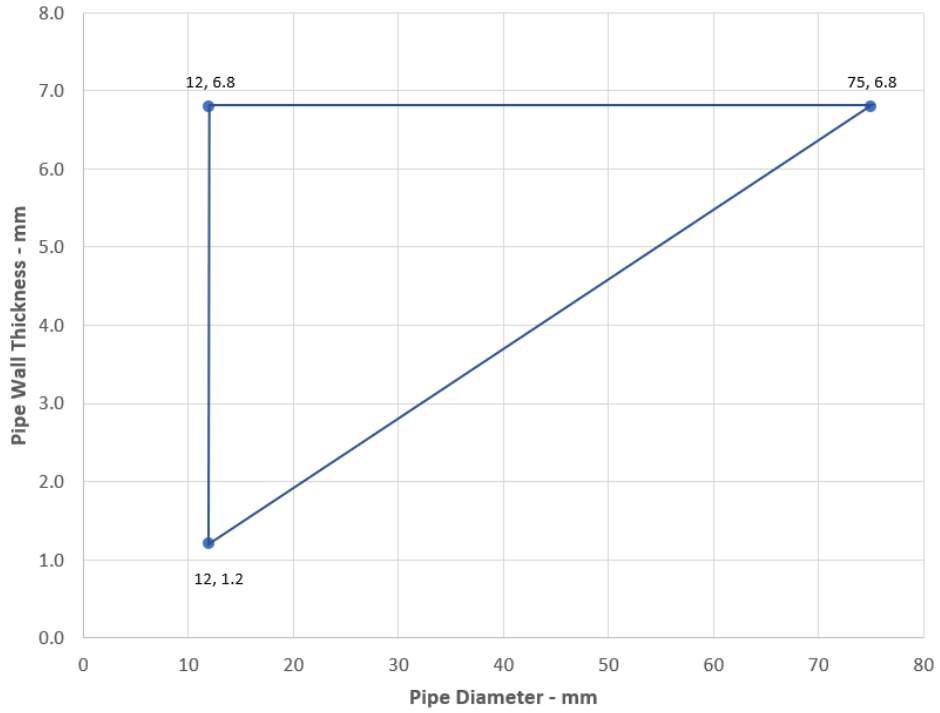
*See below graphs for interpolated pipe sizes

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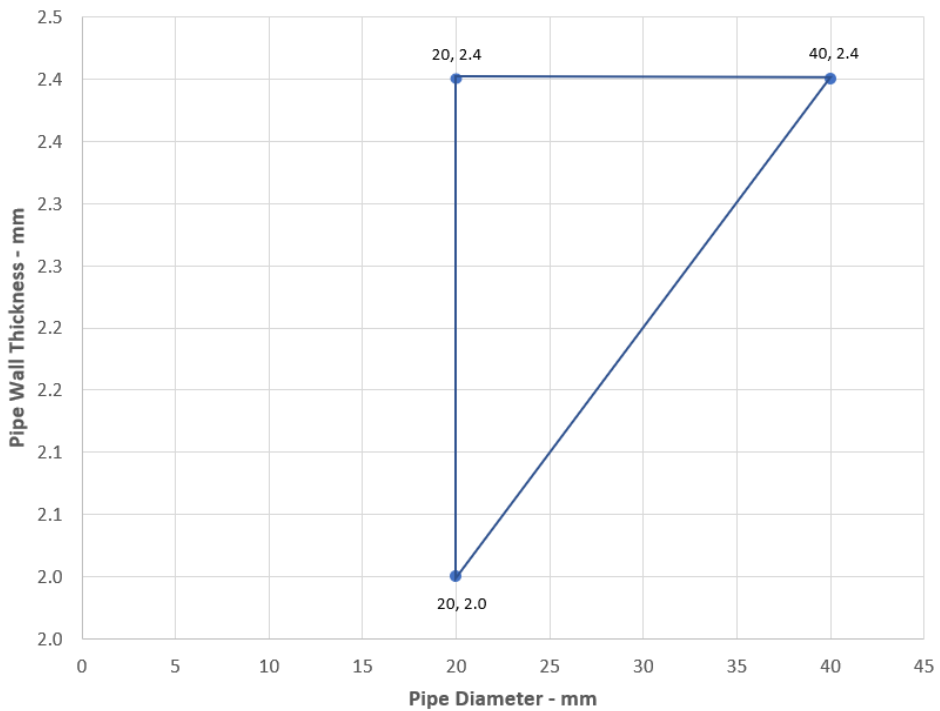
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PP Pipes - EI 190 U/C



PE Pipes - U/C



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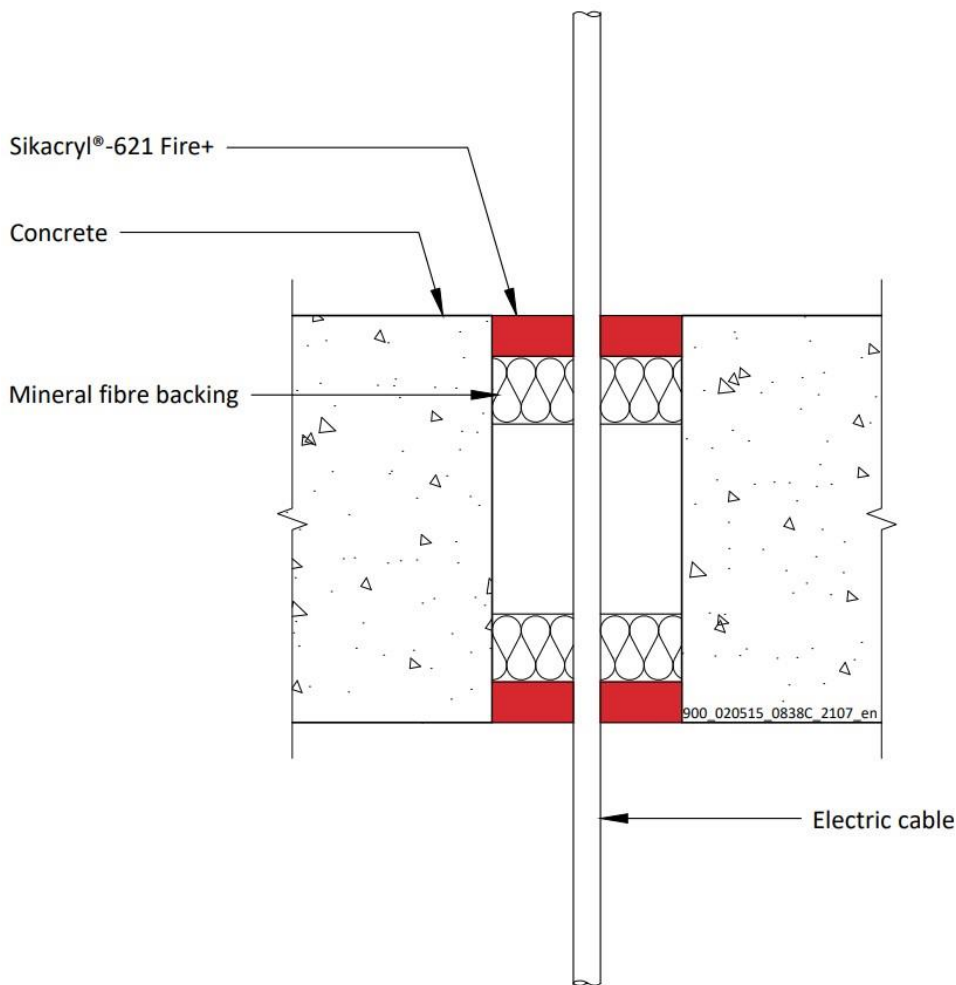
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A.6.5 Double side penetration seal with cables

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 |

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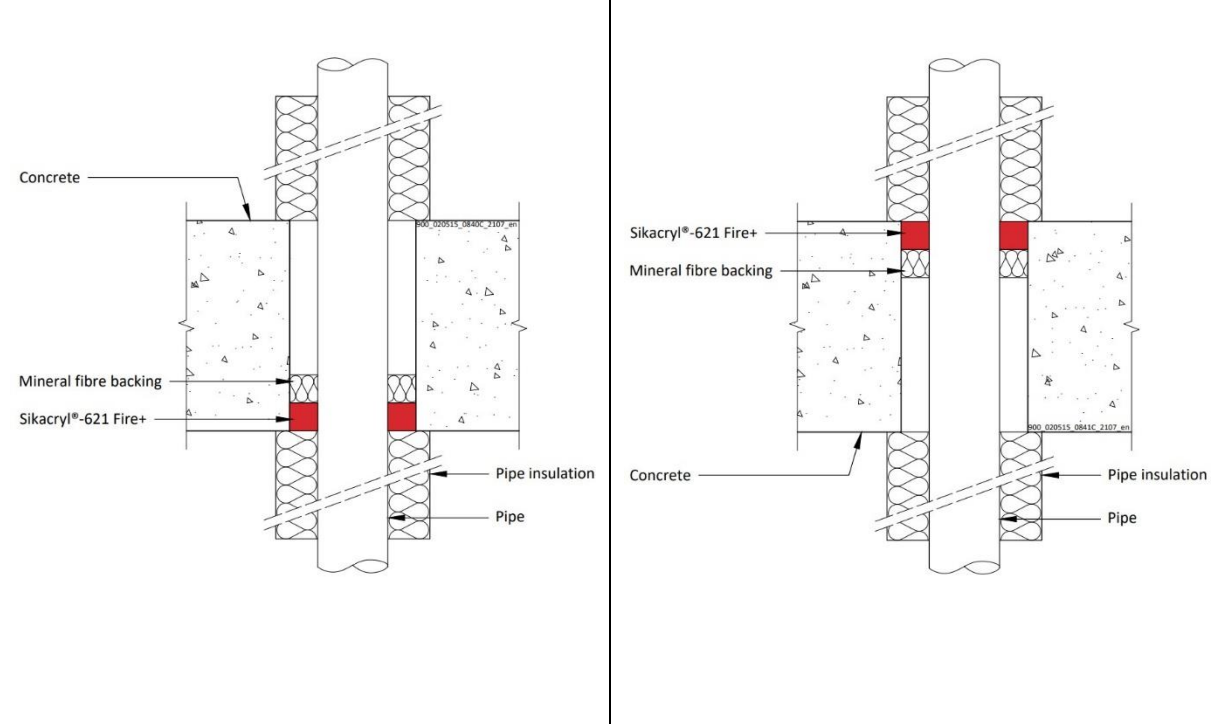
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A.6.6 Single side penetration seal with metallic pipes

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 mineral fibre.

Construction details:



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 |

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| 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

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| 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

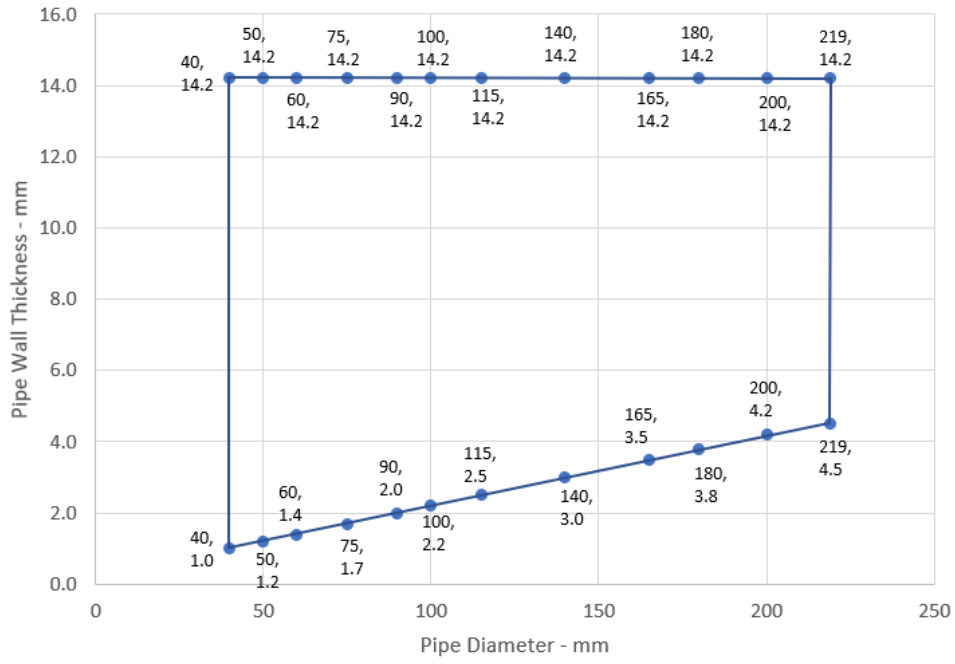
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Steel Pipes with Stone Wool Insulation - C/U



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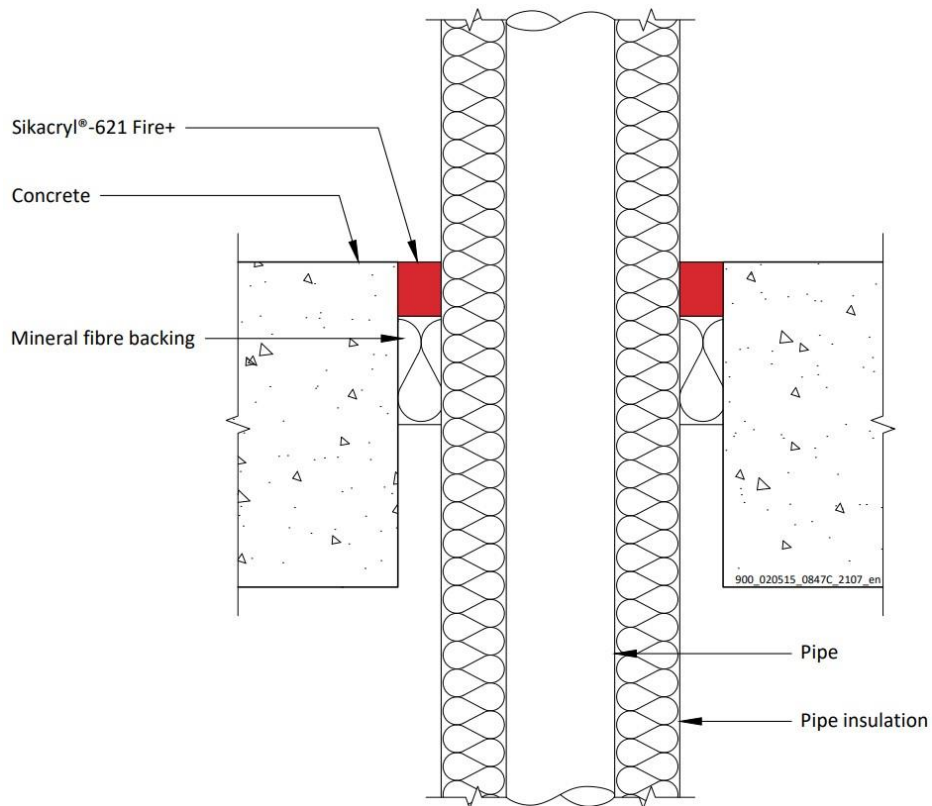
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A.6.7 Single side penetration seal with metallic pipes

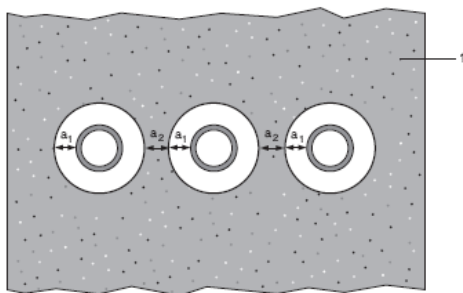
Penetration Seal: CS (Continuous Sustained) insulated metallic pipes (single) fitted at any position within the aperture, with 25 mm Sikacryl-621 Fire+ to the top of the floor, backed with 48 mm deep AES mineral fibre insulation. Minimum annular space 10 mm (A1) and minimum separation between penetration seals 30 mm (A2). Maximum seal size 300 x 300 mm / 504 mm \varnothing

Construction details:



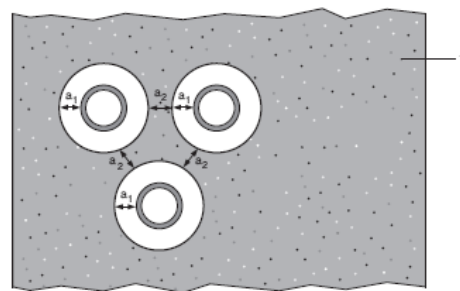
Configuration 1

Option 1



Configuration 2

Option 2



Key

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

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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 |

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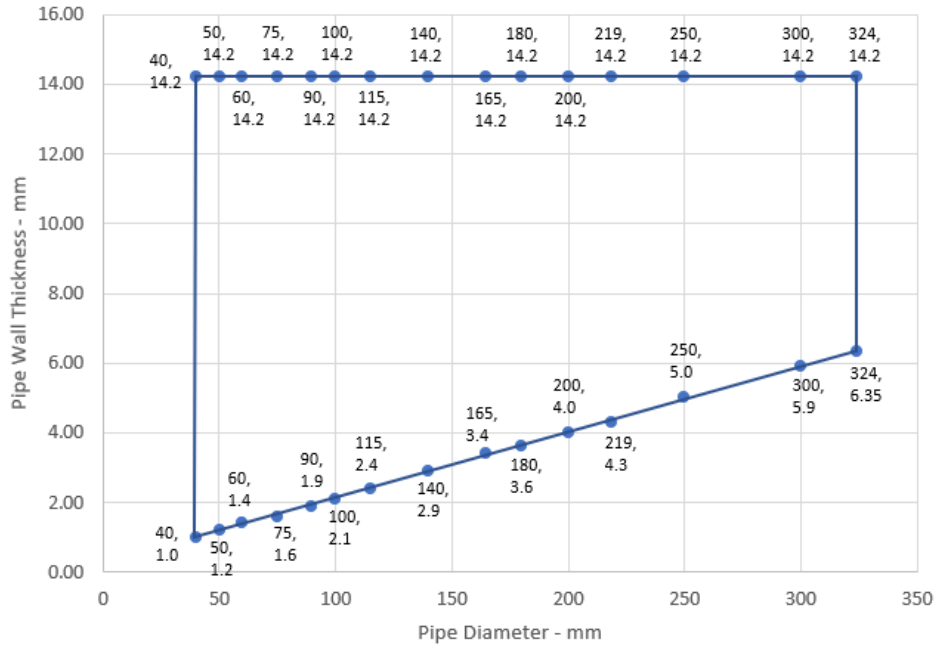
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Steel Pipes with Mineral Wool Insulation - C/U



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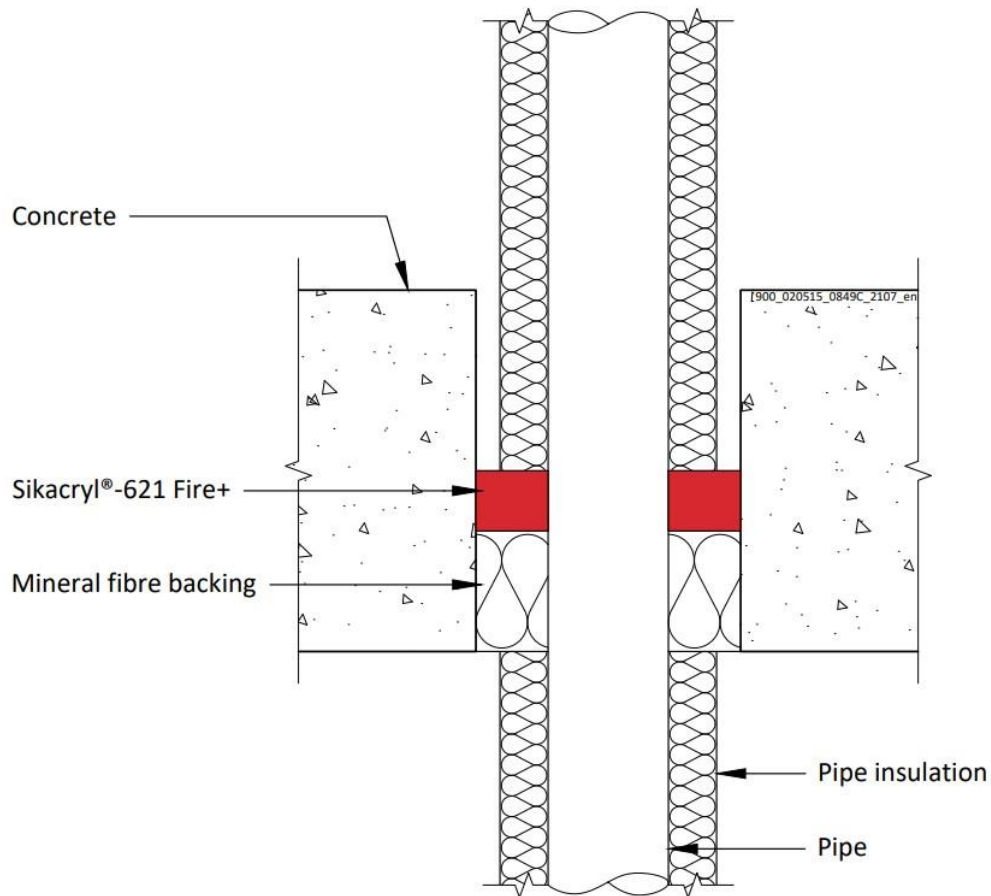
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A.6.8 Single side penetration seal with composite pipes

Penetration Seal: CI (Continuous 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 mineral fibre'.

Construction details:



A.6.8.1

| Services | Sealant depth | Backing | Insulation (minimums) | Classification |
|-----------------------------|---------------|-------------------------|--|----------------|
| Alupex Composite Pipe | 25 mm | 48 mm AES mineral fibre | 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 | | | | |

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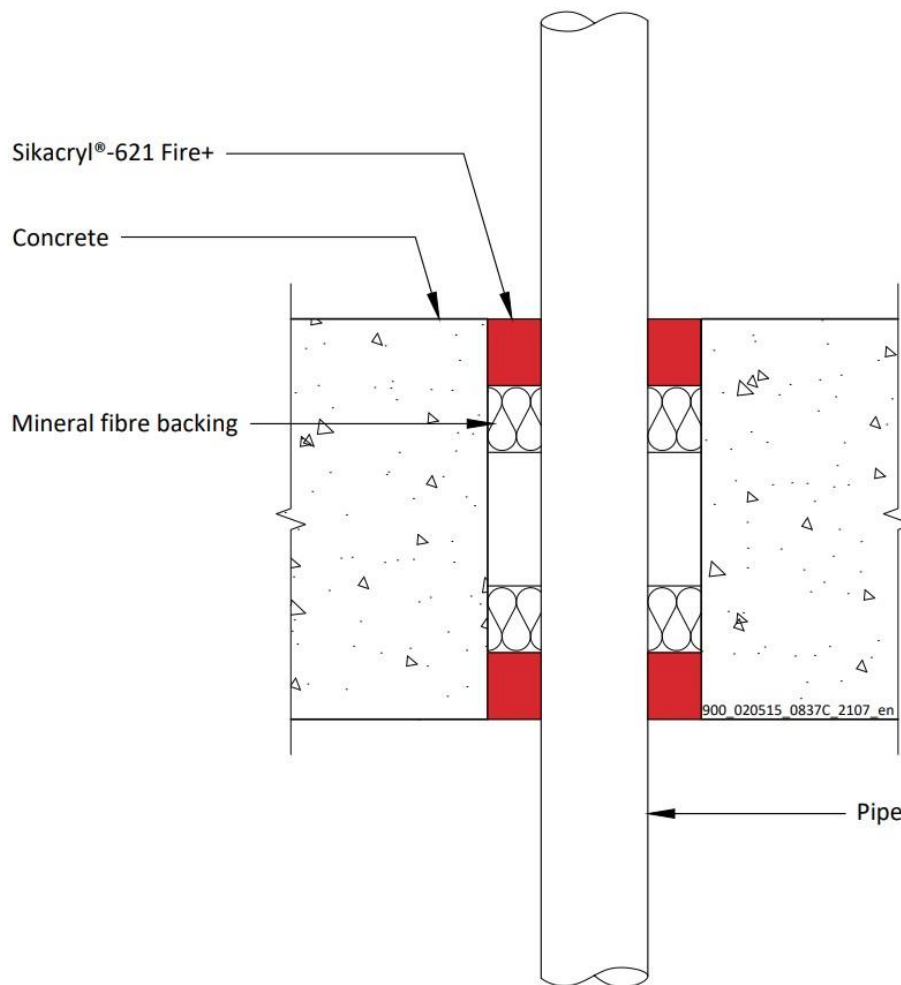
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A.6.9 Double side penetration seal with metallic pipes

Penetration Seal: Non-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.6.9.1

| 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 |
| Mild steel pipe 16 mm diameter/1.5-7.5 mm wall | | | 25 mm | | 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 mineral fibre 25 mm deep | EI 120 C/U |

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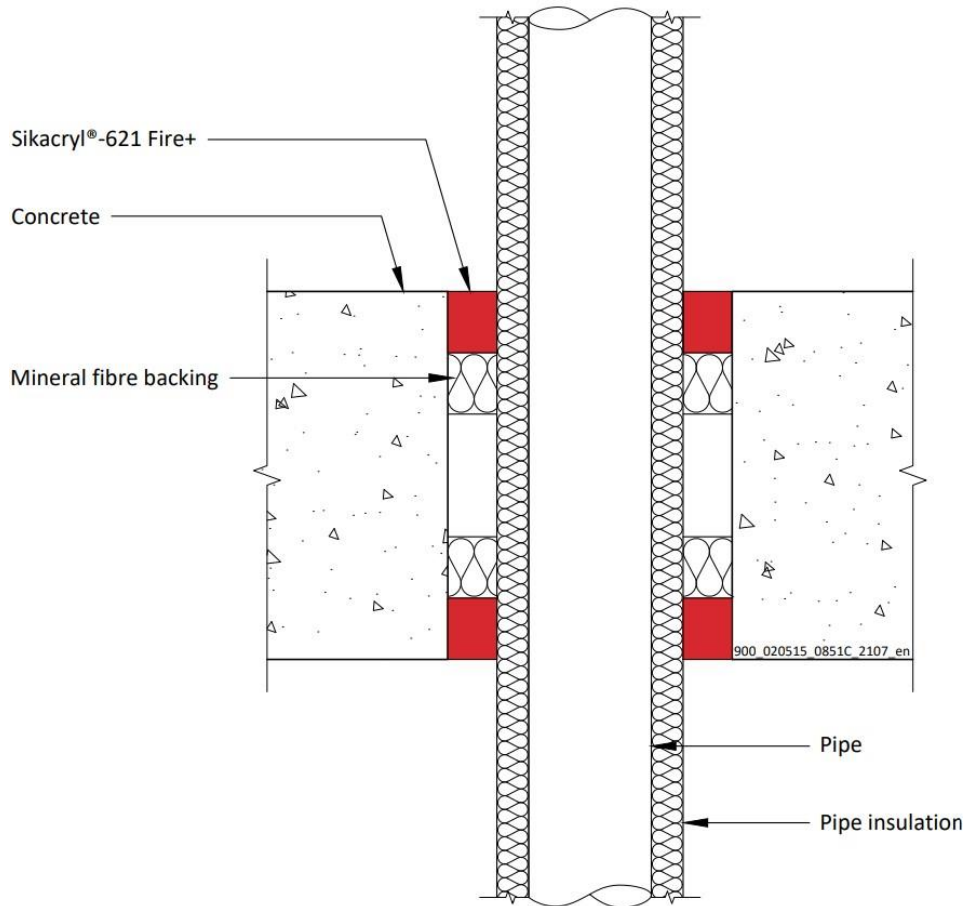
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A.6.10 Double side penetration seal with metallic pipes

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 mineral fibre'.

Construction details:



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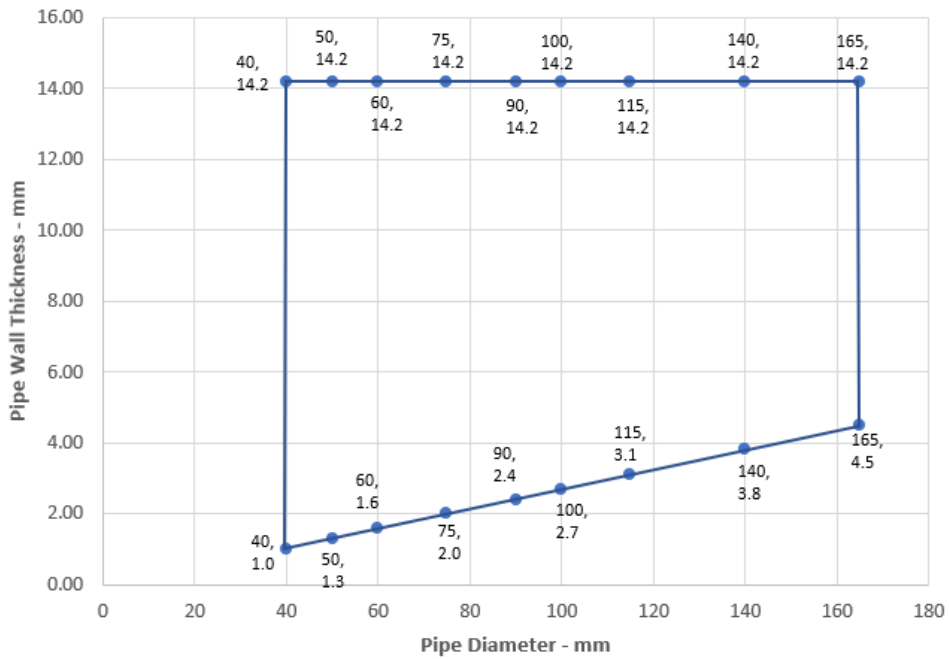
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A.6.10.1

| 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 | | EI 180 C/U |
| 40 mm diameter/1-14.2 mm wall* | 25 mm | 25 mm AES mineral fibre | 13 -19 mm Elastomeric insulation minimum class B-s3,d0 or phenolic foam insulation | EI 60 C/U |
| 50 mm diameter/1.3-14.2 mm wall* | | | | |
| 60 mm diameter/1.6-14.2 mm wall* | | | | |
| 75 mm diameter/2-14.2 mm wall* | | | | |
| 90 mm diameter/2.4-14.2 mm wall* | | | | |
| 100 mm diameter/2.7-14.2 mm wall* | | | | |
| 115 mm diameter/3.1-14.2 mm wall* | | | | |
| 140 mm diameter/3.8-14.2 mm wall* | | | | |
| 165 mm diameter/4.5-14.2 mm wall* | | | | |

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

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



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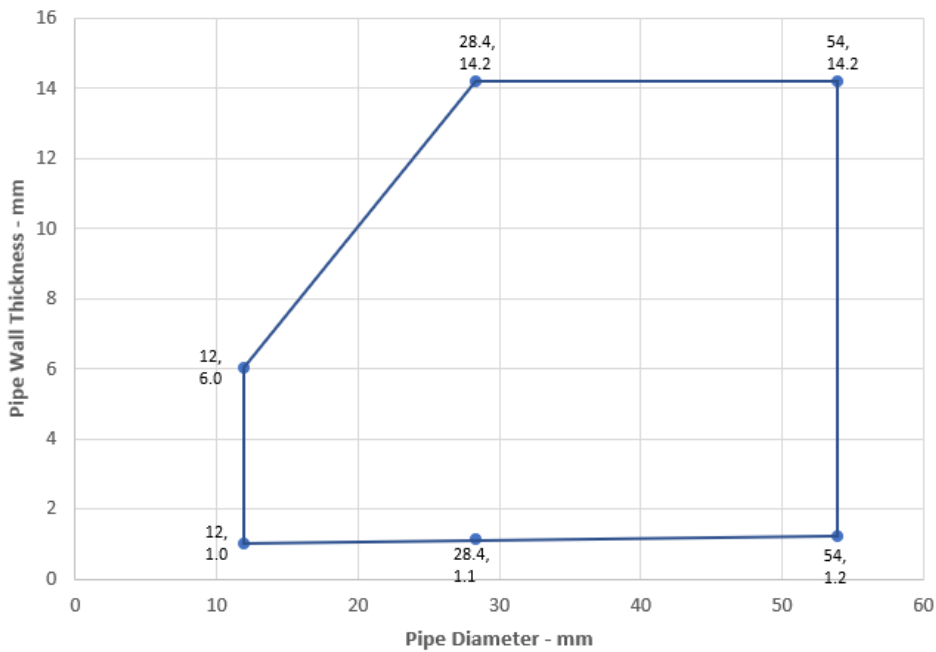
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| Services | Sealant depth | Backing (minimum) | Insulation | Classification |
|-----------------------------------|---------------|-------------------------|---|-----------------------|
| Copper or steel pipe | | | | |
| 12 mm diameter/1-6 mm wall | 25 mm | 25 mm AES mineral fibre | 9 mm Elastomeric insulation minimum class B-s3,d0 or phenolic 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 or phenolic 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 or phenolic foam insulation | E 90 C/C, EI 60 C/C |

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

Copper or Steel Pipes with Elastomeric Insulation - C/C



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| Services | Sealant depth | Backing (minimum) | Insulation | Classification |
|-----------------------------|---------------|-------------------------|---|-----------------------------|
| Alupex Composite Pipe | | | | |
| 16 mm diameter/2.25 mm wall | 25 mm | 25 mm AES mineral fibre | 9 mm Elastomeric insulation minimum class B-s3,d0 or phenolic foam insulation | EI 180 C/C |
| 16 mm diameter/2.25 mm wall | | | 9-13 mm Elastomeric insulation minimum class B-s3,d0 or phenolic foam insulation | E 120 C/C, EI 60 C/C |
| 20 mm diameter/2.5 mm wall | | | | |
| 26 mm diameter/3 mm wall | | | | |
| 32 mm diameter/3 mm wall | | | | |
| 40 mm diameter/3.5 mm wall | | | | |
| 50 mm diameter/4 mm wall | | | | |
| 63 mm diameter/4.5 mm wall | | | | |
| 75 mm diameter/4.7 mm wall | | | | |
| 16 mm diameter/2.25 mm wall | | | 13-25 mm Elastomeric insulation minimum class B-s3,d0 or phenolic 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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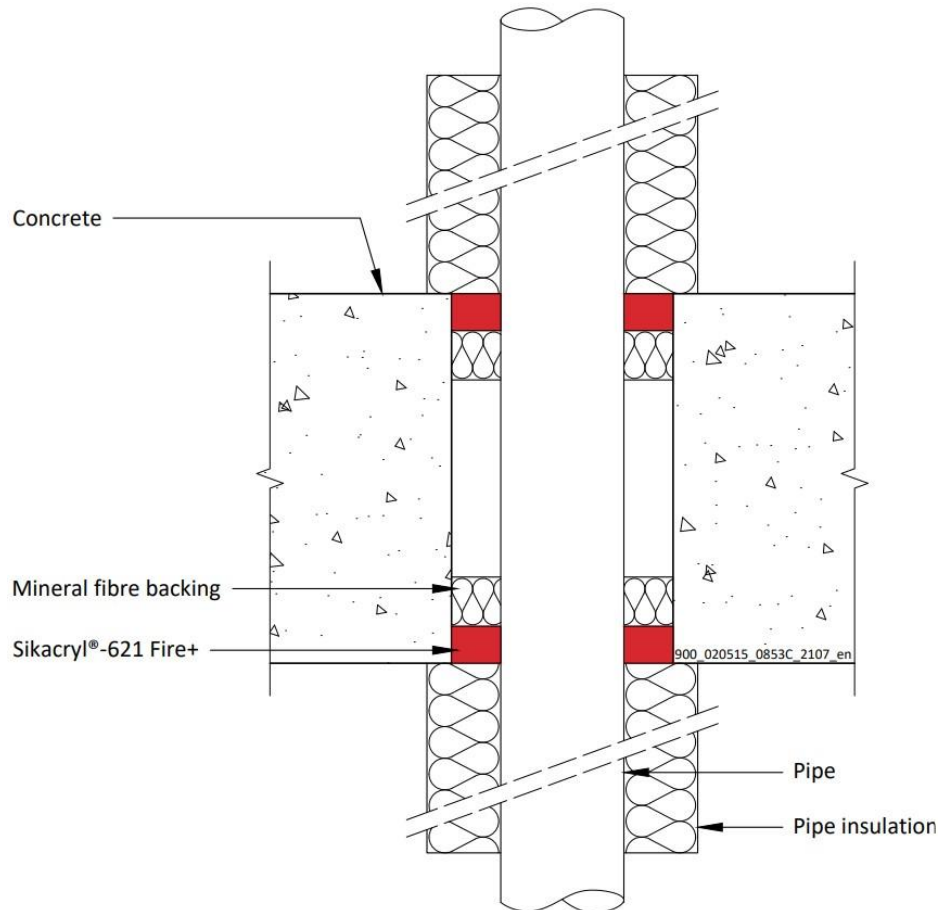
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A.6.11 Double side penetration seal with metallic pipes

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:



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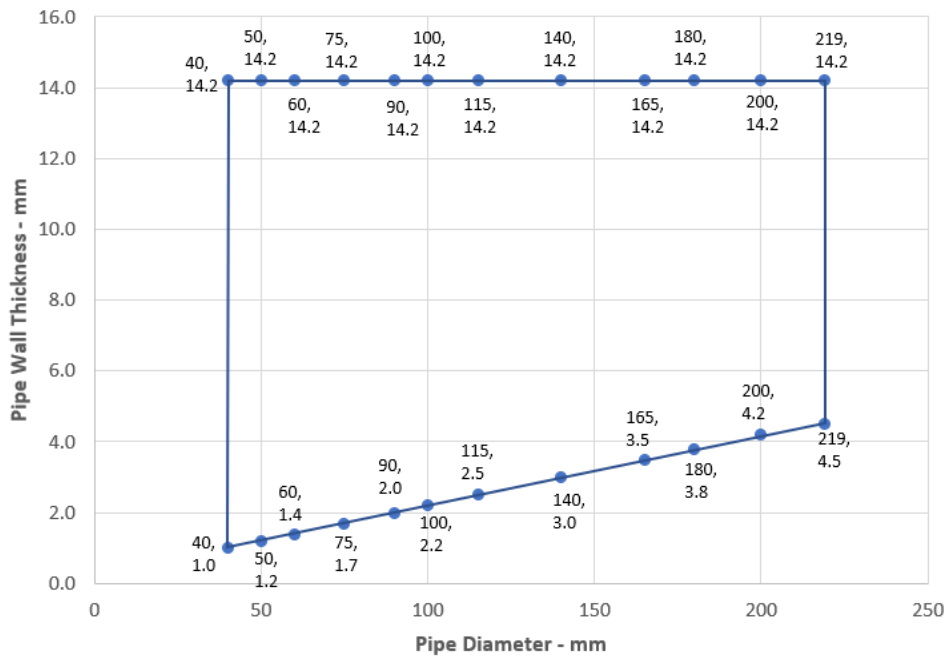
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A.6.11.1

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

Steel Pipes with Stone Wool Insulation - C/U



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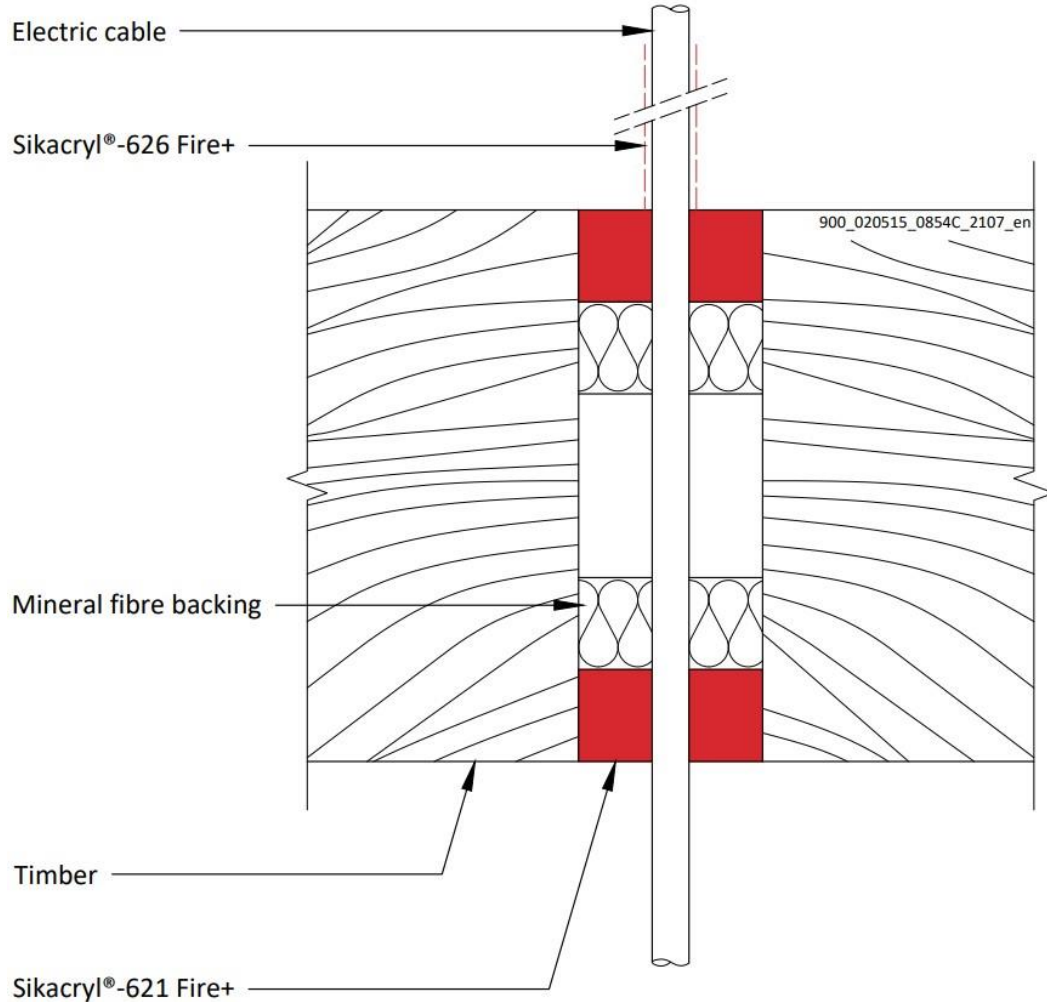


A.7 Timber floor constructions with floor thickness of minimum 150 mm

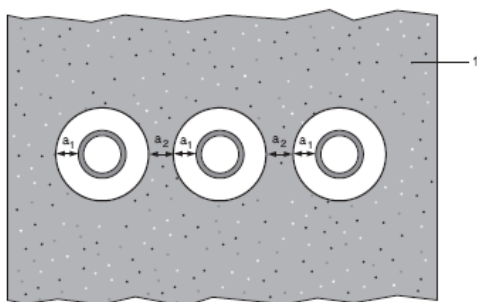
A.7.1 Double sided penetration seal with cables

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

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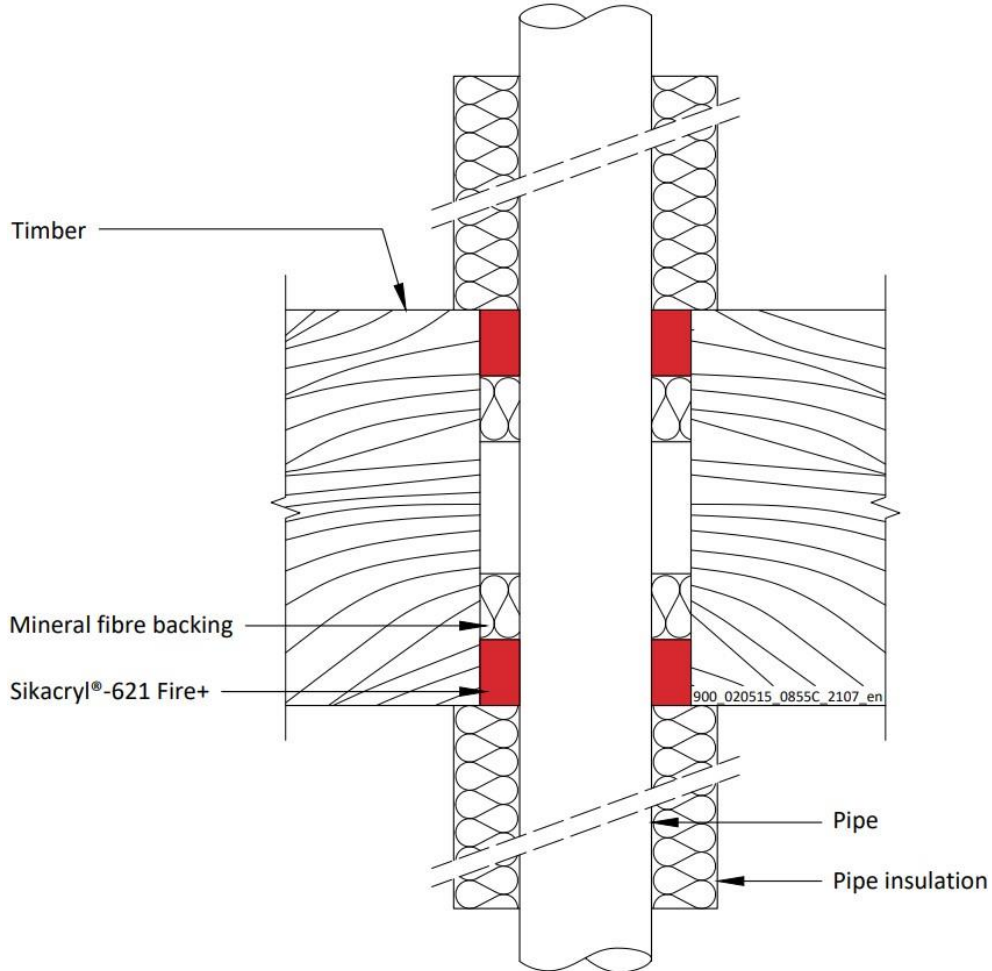
A.7.1.1

| 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 | | | | Sikacryl®-626 Fire+, 260-micron DFT extending 150 mm from top side of the seal | 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 |

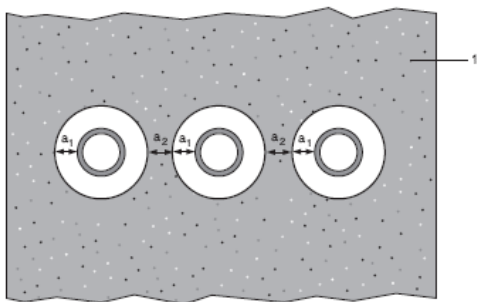
A.7.2 Double side penetration seal with metallic pipes

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

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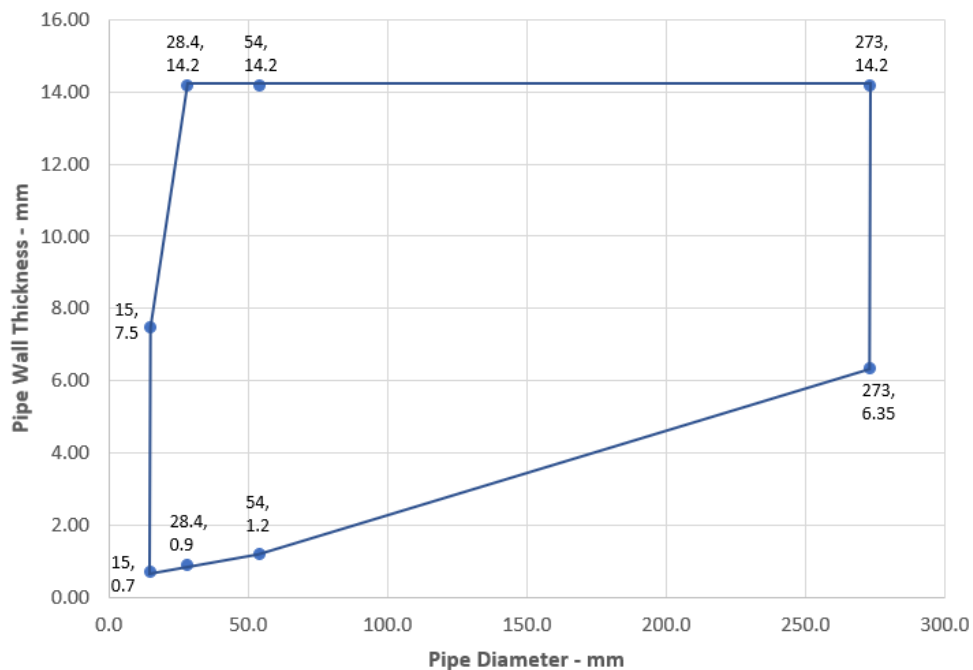
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A.7.1.1

| 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 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 seal | EI 120 C/C |
| Maximum 75 mm diameter/ 4.6 mm wall* | | | | | E 120 C/C, EI 90 C/C |

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

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

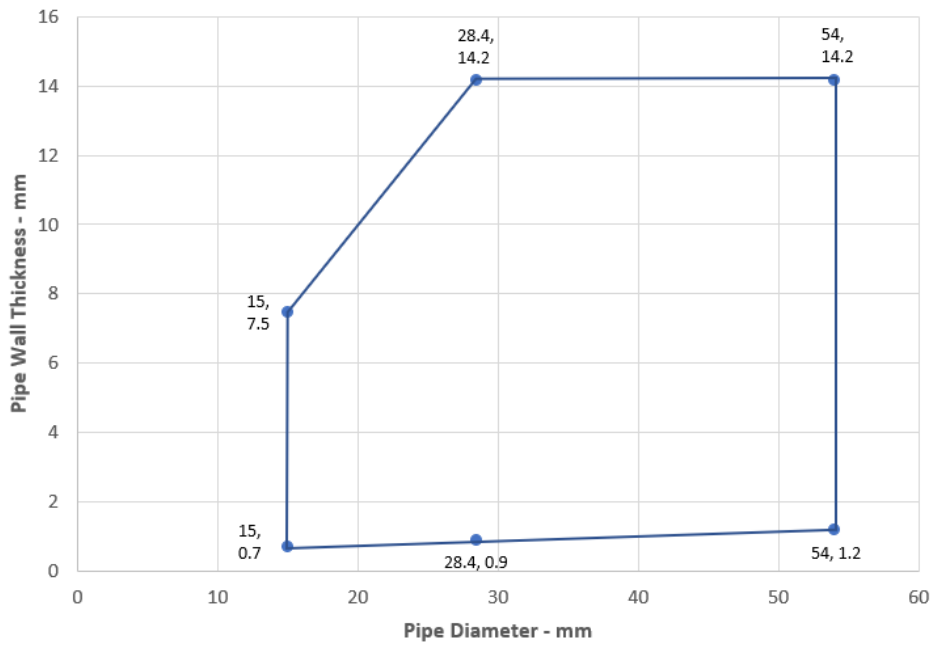


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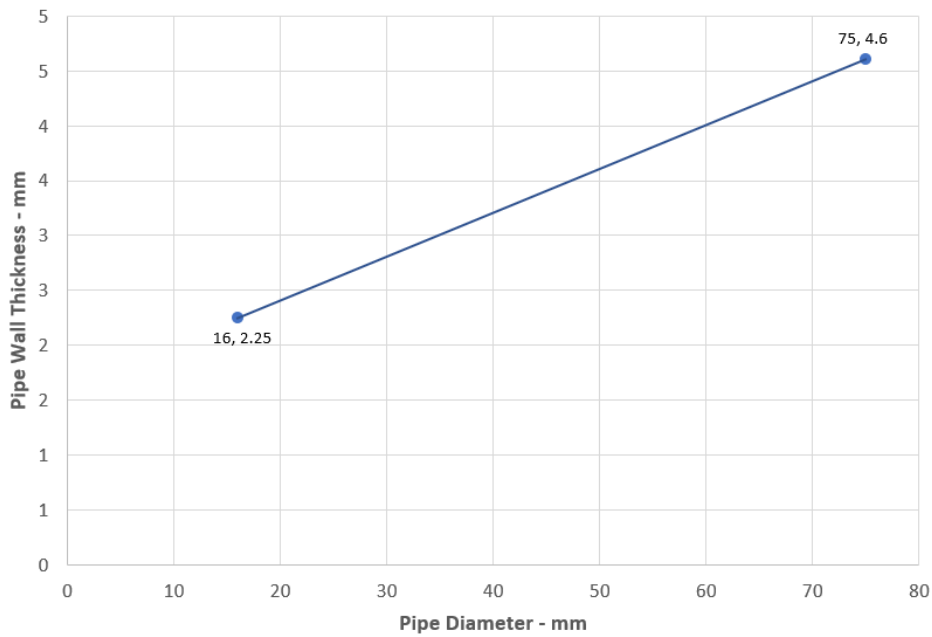
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**Copper or Steel Pipes with Glass Wool or Mineral Wool
Insulation - C/C**



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



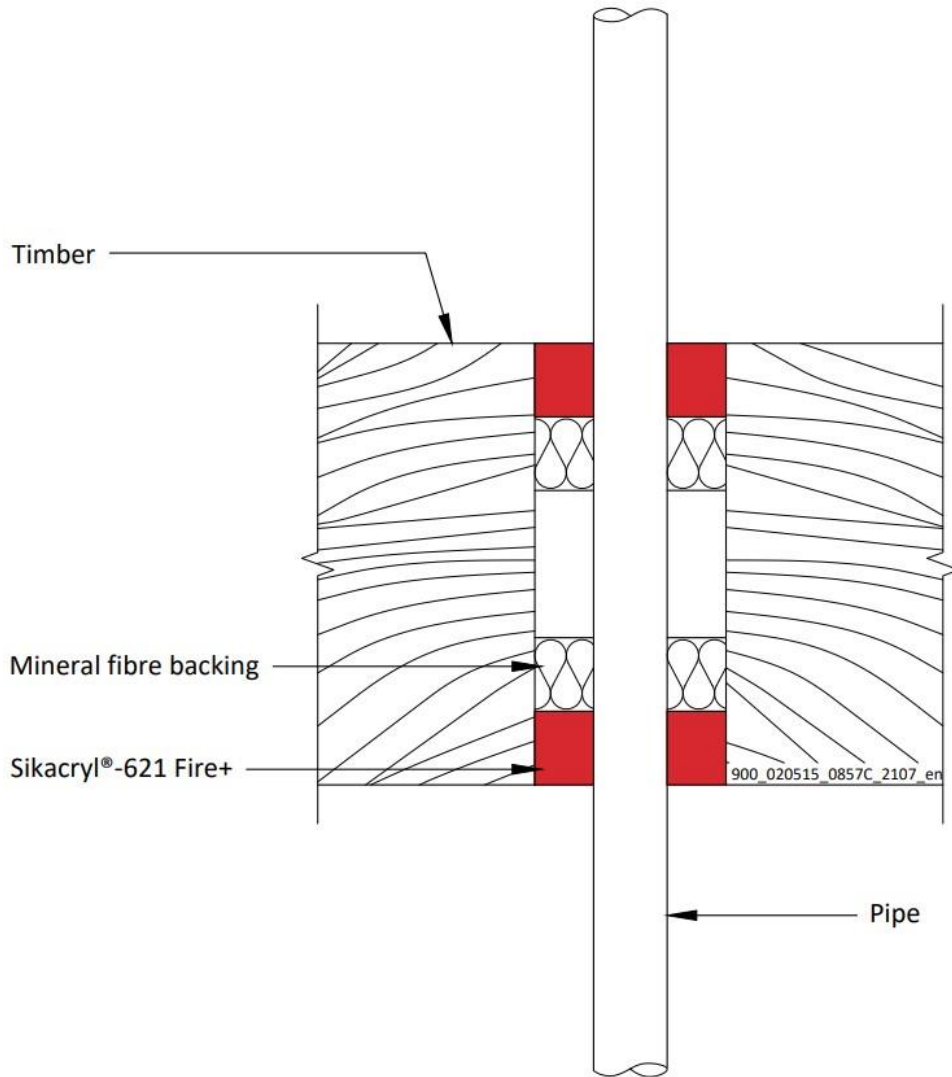
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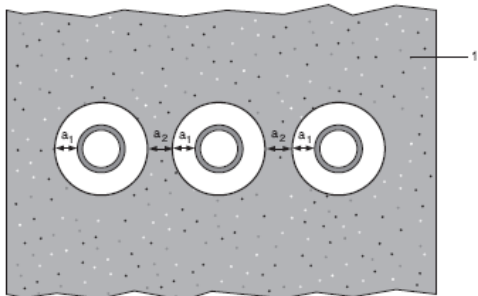
A.7.3 Double side penetration seal with plastic pipes and composite pipes

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

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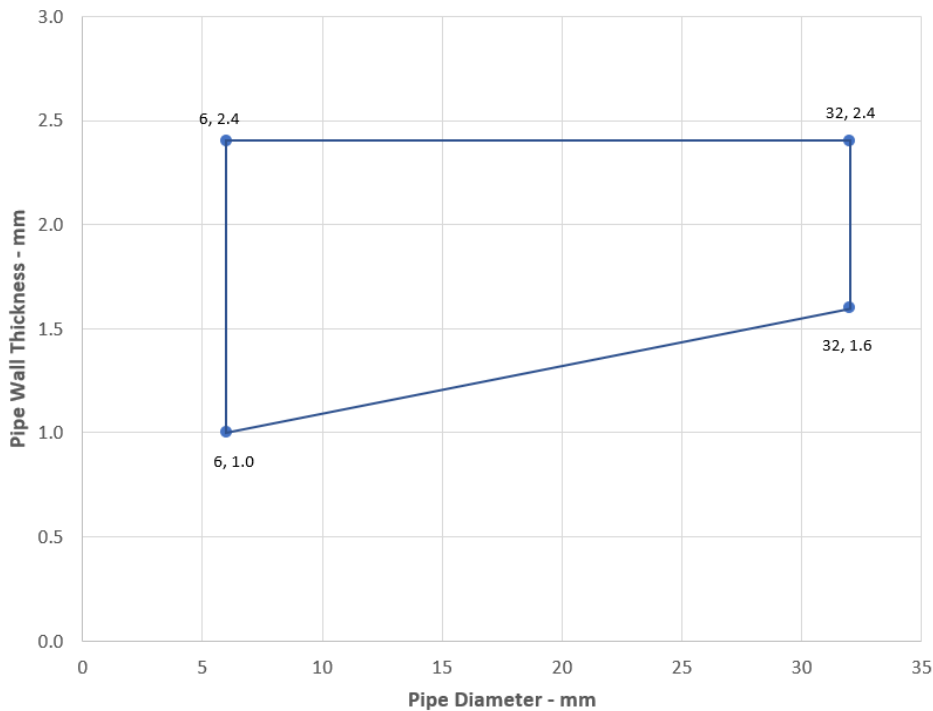
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A.7.3.1

| Services | Sealant depth | Backing | Classification |
|--|---------------|--|-------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1, PVC-C according to EN 1566-1 | | | |
| Maximum 32 mm diameter/1.0-2.4 mm wall* | 25 mm | Stone wool 25 mm deep min. 33kg/m ³ | EI 120 U/C |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 | | | |
| Maximum 32 mm diameter/2.0-3.0 mm wall* | 25 mm | Stone wool 25 mm deep min. 33kg/m ³ | EI 120 U/C |
| PP pipe according to EN 1451-1 or DIN 8077/8078 | | | |
| Maximum 32 mm diameter/1.8-4.4 mm wall* | 25 mm | Stone wool 25 mm deep min. 33kg/m ³ | EI 120 U/C |
| PEX pipe in pipe system | | | |
| 25 mm diameter outer /15 mm diameter x 2.5 mm wall inner | 25 mm | Stone wool 25 mm deep min. 33kg/m ³ | EI 120 C/C |

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

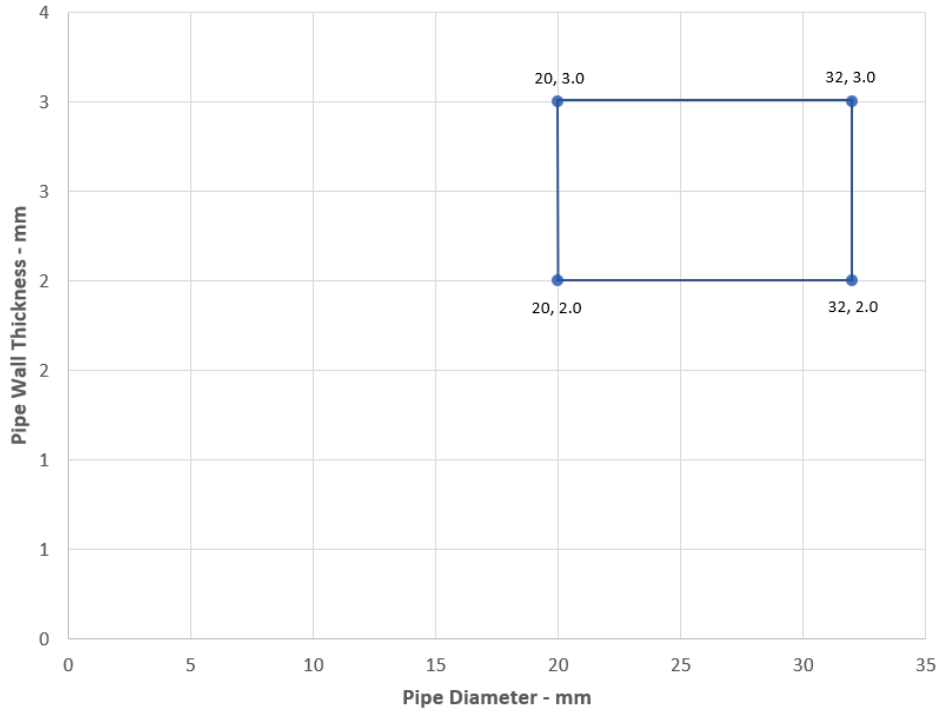
PVC-U Pipes EI 120 - U/C



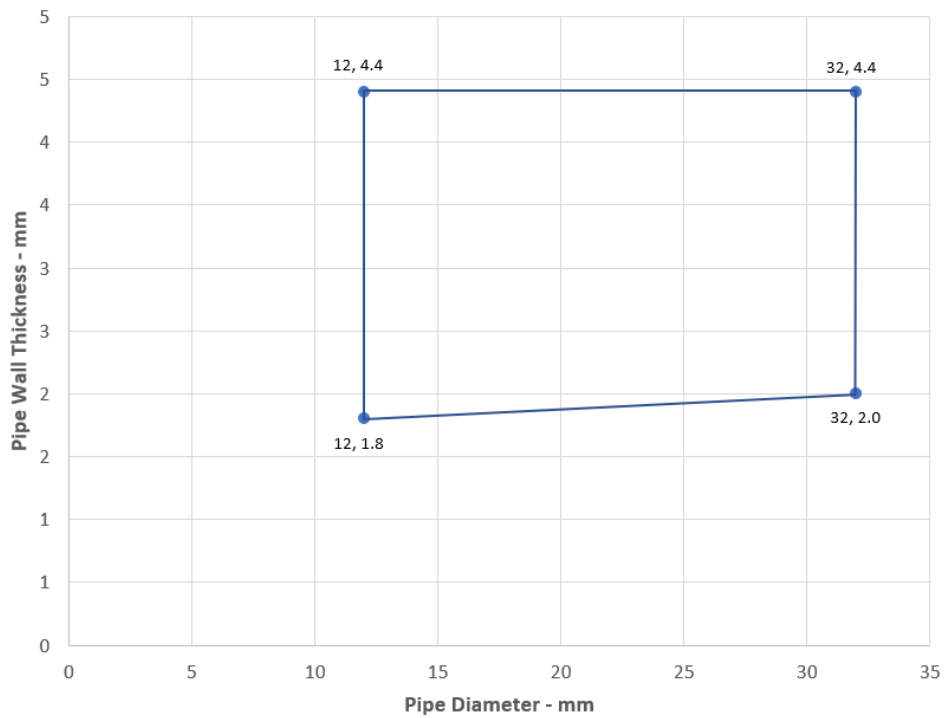
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PE Pipes EI 120 - U/C



PP Pipes EI 120 - U/C



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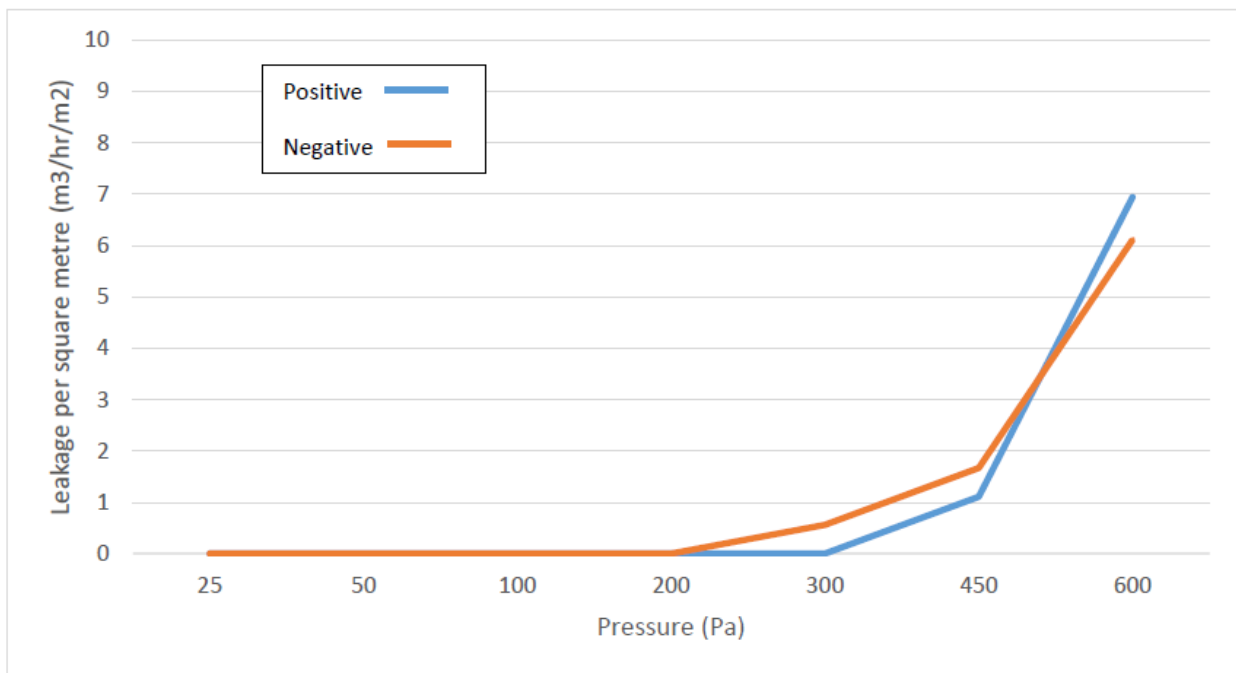
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ANNEX B – Air Permeability – Sikacryl-621 Fire+

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



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


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| |
|---|
|  21 |
| Sika Services AG, Zurich, Switzerland |
| 58967197 |
| For details see accompanying documents |
| EAD 350454-00-1104:2017 |
| Notified Body 2531 |
| Fire Stopping and Sealing Product: Penetration Seals |

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ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

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

LEGAL NOTE

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

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Sika Services AG
Tüffenwies 16-22
8064 Zürich
Switzerland
www.sika.com

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