

# SikaSeal-623 Fire+

## PRESTANDADECLARATION No. 54864880

|    |                                                                   |                                                                                 |
|----|-------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1  | PRODUKTTYPENS UNIKA IDENTIFIKATIONSKOD:                           | 54864880                                                                        |
| 2  | AVSEDD ANVÄNDNING/<br>AVSEDDA ANVÄNDNINGAR:                       | EAD 350454-00-1104:2017<br>Fire Stopping and Sealing Product: Penetration Seals |
| 3  | TILLVERKARE:                                                      | Sika Services AG<br>Tüffenwies 16-22<br>8064 Zürich                             |
| 4  | TILLVERKARENS REPRESENTANT:                                       | -                                                                               |
| 5  | SYSTEM FÖR BEDÖMNING<br>OCH FORTLÖPANDE KONTROLL<br>AV PRESTANDA: | System 1                                                                        |
| 6b | EUROPEISKT<br>BEDÖMNINGSDOKUMENT:                                 | EAD 350454-00-1104:2017                                                         |
|    | Europeisk teknisk bedömning:                                      | ETA-21/1030 of 2021/11/25                                                       |
|    | Tekniskt bedömningsorgan:                                         | ETA-DANMARK A/S                                                                 |
|    | Notified body/ies:                                                | 2531                                                                            |

### Declaration of Performance

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## 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                                       | NPD            | System 1 |                                    |
| Content, emission and/or release of dangerous substances | NPD            | System 1 |                                    |
| Mechanical resistance and stability                      | NPD            | System 1 |                                    |
| Resistance to impact/movement                            | NPD            | System 1 |                                    |
| Adhesion                                                 | NPD            | System 1 |                                    |
| Durability                                               | Z <sub>2</sub> | System 1 |                                    |
| Airborne sound insulation at 25 mm depth                 | 53 (0;-1) dB   | System 1 |                                    |
| Thermal properties                                       | NPD            | System 1 |                                    |
| Water vapour permeability                                | NPD            | System 1 |                                    |

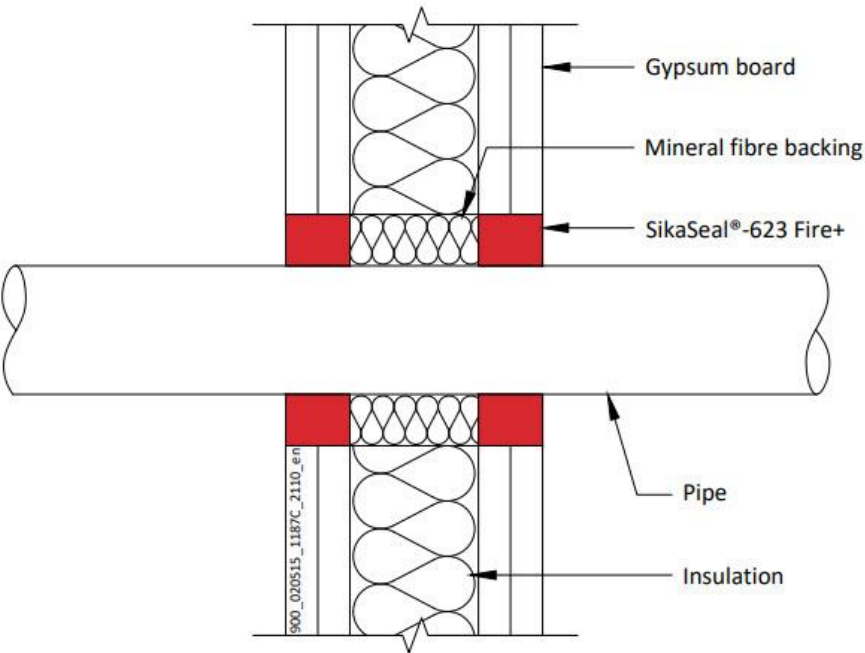
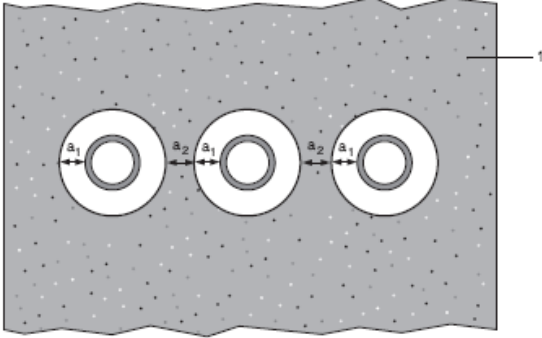
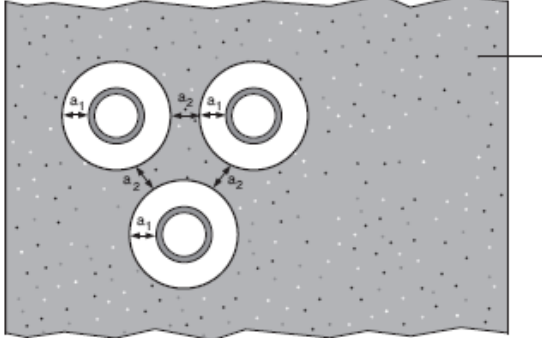
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# ANNEX A – RESISTANCE TO FIRE CLASSIFICATION – SIKASEAL-623 FIRE+

## A.1 Flexible or Rigid wall constructions with wall thickness of minimum 100 mm

### A.1.1 Penetration seals, in drywalls\* and concrete/masonry walls

|                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <p><b>Penetration Seal:</b> Combustible pipes sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the wall backed with Stonewool (minimum 35kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm (a2).</p> <p>Construction details:</p>  |                                                                                                                    |
| <p><b>Configuration 1</b></p>                                                                                                                                                                                                                                                                            | <p><b>Configuration 2</b></p>  |
| <p><b>Key</b></p> <p>1 Supporting construction</p> <p>a<sub>1</sub> Pipe / edge of seal separation (annular space)</p> <p>a<sub>2</sub> Separation between penetration seals</p>                                                                                                                                                                                                            |                                                                                                                    |

\* Partition wall must incorporate a core insulation as support for the backing material.

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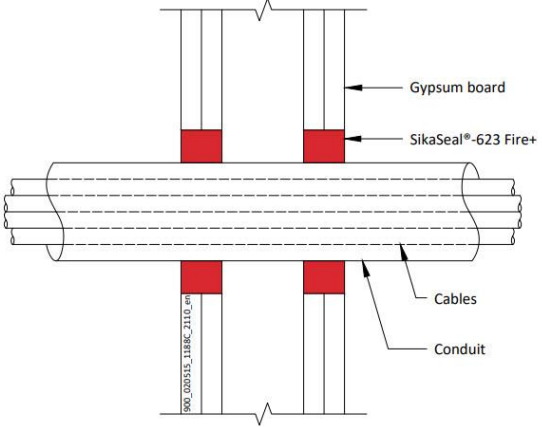
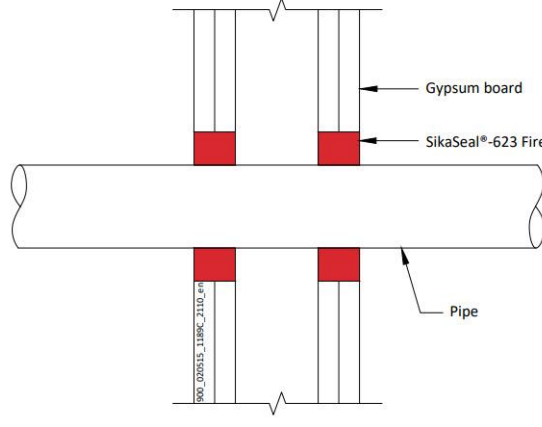
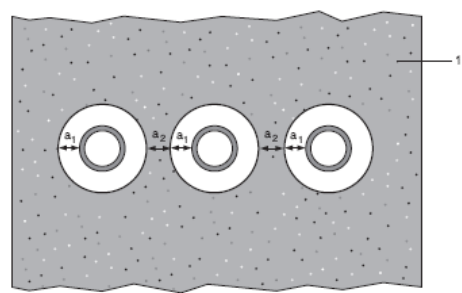
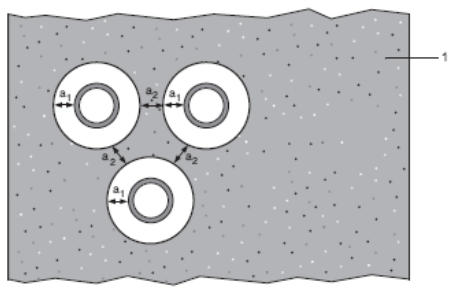
### A.1.1.1

| Services                                                                                                                                 | Seal & Backing width (a1) | Permitted configuration for seal separation | Classification                               |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------|----------------------------------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                           |                                             |                                              |
| Diameter 40 mm, wall thickness 1.9 – 3.7 mm to diameter 110 mm, wall thickness 2.7-6.6 mm                                                | 10-30 mm                  | 1 & 2                                       | EI 120 U/C, EI 120 C/C                       |
| Diameter 40, wall thickness 1.9 – 3.7 mm                                                                                                 |                           | 1 & 2                                       |                                              |
| Diameter 40 mm, wall thickness 1.9 – 3.7 mm to diameter 110 mm, wall thickness 2.7-6.6 mm                                                |                           | 1 & 2                                       | EI 60 U/C, EI 60 C/C                         |
| Diameter 40 mm, wall thickness 1.9 – 3.7 mm to diameter 110 mm, wall thickness 2.7-6.6 mm                                                |                           | 1 & 2                                       | EI 120 U/C, EI 120 C/C                       |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 |                           |                                             |                                              |
| Diameter 40 mm, wall thickness 2.4-3.7 mm                                                                                                | 10-30 mm                  | 1 & 2                                       | EI 120 U/C, EI 120 C/C                       |
| Diameter 40, wall thickness 2.4-3.7 mm to diameter 110 mm, wall thickness 4.3-10 mm                                                      |                           | 1 & 2                                       | EI 60 U/C, EI 60 C/C                         |
| Diameter 110 mm, wall thickness 4.3-10 mm                                                                                                |                           | 1                                           | E 120 U/C, E 120 C/C<br>EI 90 U/C, EI 90 C/C |
| PP pipe according to EN 1852-1: 2009 or DIN8077/8078                                                                                     |                           |                                             |                                              |
| Diameter 110 mm, wall thickness 6.6 mm                                                                                                   | 30 mm                     | 1 & 2                                       | EI 120 U/C, EI 120 C/C                       |
| Diameter 40 mm, wall thickness 1.8 - 5.5 mm                                                                                              | 10 mm                     | 1 & 2                                       | EI 90 U/C                                    |

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A.1.2 Penetration seals with no backing material, in drywalls and concrete/masonry walls

|                                                                                                                                                                                                                                                   |                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <p><b>Penetration Seal:</b> Combustible cable conduit or combustible pipes sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the wall without backing material. Minimum separation between penetration seals of 30 mm (a2).</p> |                                                                                                                   |
| <p>Construction details:</p>                                                                                                                                     | <p>Construction details:</p>    |
| <p><b>Configuration 1</b></p>                                                                                                                                   | <p><b>Configuration 2</b></p>  |
| <p><b>Key</b></p> <p>1 Supporting construction</p> <p>a1 Pipe / edge of seal separation (annular space)</p> <p>a2 Separation between penetration seals</p>                                                                                        |                                                                                                                   |

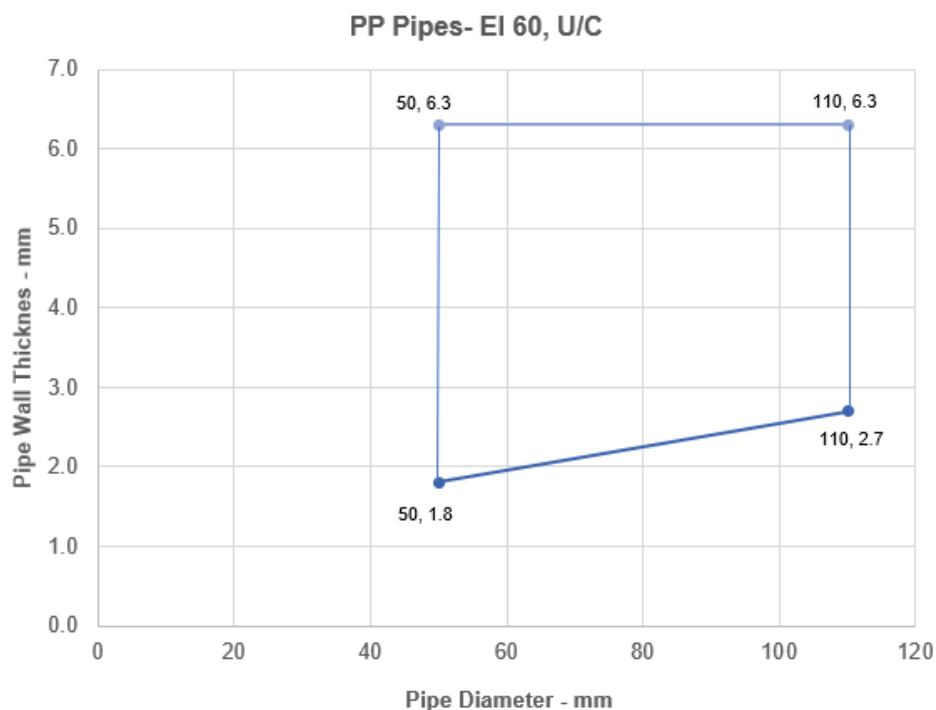
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### A.1.2.1

| Services                                                                                                                                         | Seal width (a1) | Permitted configuration for seal separation | Classification |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------|----------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1 or PP pipe according to EN 1852-1: 2009 or DIN8077/8078 |                 |                                             |                |
| Maximum diameter 110 mm, wall thickness 1.9-6.6 mm for PVC pipes, fully or partially filled conduits with cables up to 20mm diameter             | 10-30 mm        | 1 & 2                                       | EI 90 U/C      |
| Maximum diameter 110 mm, wall thickness 2.7-6.6 mm for PP pipes, fully or partially filled conduits with cables up to 20mm diameter              | 10-30 mm        | 1 & 2                                       | EI 90 U/C      |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1         |                 |                                             |                |
| Maximum diameter 110 mm, wall thickness 2.4-10 mm, fully or partially filled conduits with cables up to 20 mm conduit                            | 10-30 mm        | 1 & 2                                       | EI 60 U/C      |
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                         |                 |                                             |                |
| Maximum 160 mm diameter, wall thickness 3.2-9.5 mm                                                                                               | 10-30 mm        | 1 & 2                                       | EI 30 U/C      |
| Maximum 160 mm diameter, wall thickness 9.5 mm                                                                                                   | 10-30 mm        | 1 & 2                                       | EI 90 U/C      |
| PP pipe according to EN 1852-1: 2009 or DIN8077/8078                                                                                             |                 |                                             |                |
| Maximum 110 mm, wall thickness 2.7 mm                                                                                                            | 10-30 mm        | 1 & 2                                       | EI 60 C/C      |
| Maximum 110 mm*                                                                                                                                  | 10-30 mm        | 1 & 2                                       | EI 60 U/C      |

\*See below graph for interpolation pipe sizes



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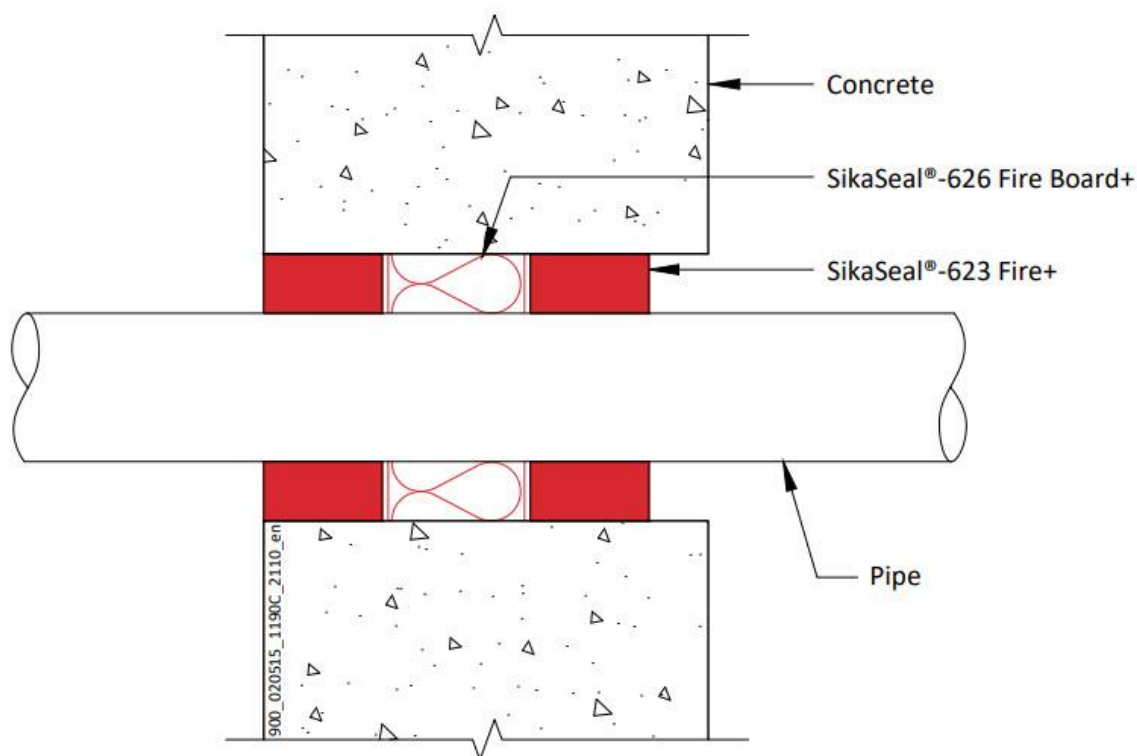
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## A.2 Rigid walls constructions with wall thickness of minimum 150 mm

### A.2.1 Penetration seals for pipes, in concrete/masonry walls

**Penetration Seal:** Combustible pipes sealed with minimum 40 mm deep SikaSeal-623 Fire+, to both sides of the wall backed with SikaSeal-626 Fire Board+ 2S, 50 mm thick. Minimum separation between penetration seals of 30 mm.

Construction details:



#### A.2.1.1

| Services                                                                                                                                 | Seal & Backing width | Classification         |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                      |                        |
| Diameter 48 mm, wall thickness 3.2 mm                                                                                                    | 17 mm                | EI 240 U/C, EI 240 C/C |
| Diameter 68 mm, wall thickness 2 mm                                                                                                      | 41 mm                |                        |
| Diameter 110 mm, wall thickness 3.5 mm                                                                                                   | 22 mm                |                        |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 |                      |                        |
| Diameter 32 mm, wall thickness 3.2 mm                                                                                                    | 25 mm                | EI 240 U/C, EI 240 C/C |
| ABS pipe according to EN 1455-1                                                                                                          |                      |                        |
| Diameter 36 mm, wall thickness 2.3 mm                                                                                                    | 23 mm                | EI 240 U/C, EI 240 C/C |
| Diameter 110 mm, wall thickness 3.5 mm                                                                                                   | 26 mm                |                        |

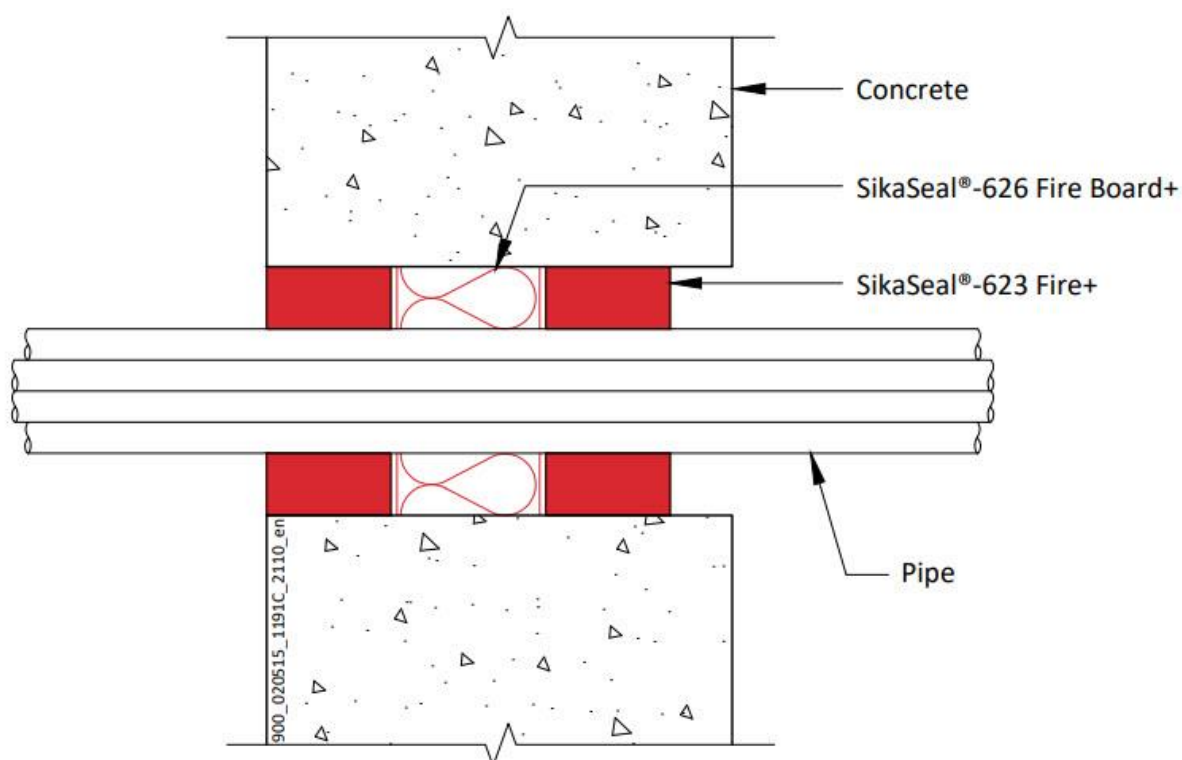
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## A.2.2 Penetration seals for cables, in concrete/masonry walls

**Penetration Seal:** Cables sealed with minimum 40 mm deep SikaSeal-623 Fire+, to both sides of the wall backed with SikaSeal-626 Fire Board+ 2S, 50 mm thick. Minimum separation between penetration seals of 30 mm.

Construction details:



### A.2.2.1

| Services                                                                                                     | Seal size<br>(WxH or diameter) | Classification       |
|--------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------|
| 150 x 25 mm perforated steel cable tray                                                                      | Maximum 200 x 100 mm           | <b>E 240, EI 180</b> |
| 20 mm diameter, single copper core armoured cable                                                            |                                |                      |
| Twin/earth cable                                                                                             |                                |                      |
| Ø 100 mm bundle of up to 4 no. 20mm diameter, single copper core armoured cable and 12 no. twin/earth cables | Maximum 150 mm Ø               | <b>E240, EI 60</b>   |

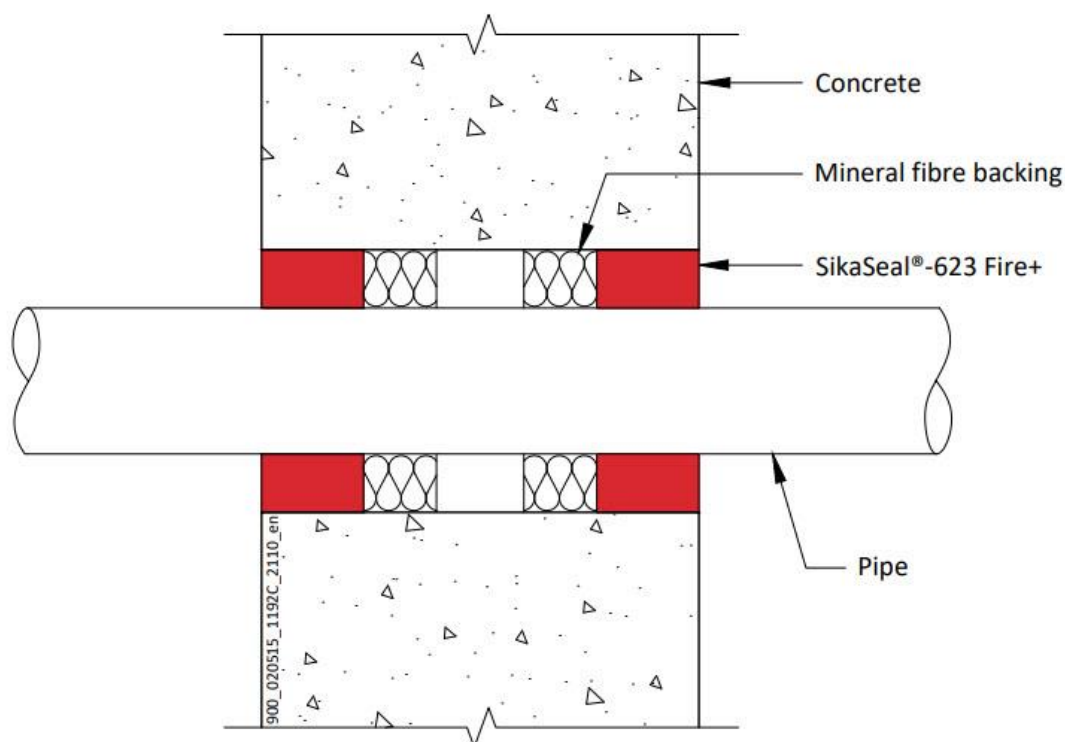
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### A.2.3 Penetration seals for pipes, in concrete/masonry walls

**Penetration Seal:** Combustible pipes sealed with minimum 35 mm deep SikaSeal-623 Fire+, to both sides of the wall backed with Mineral Bio backing material, minimum 25 mm thick. Minimum separation between penetration seals of 30 mm.

Construction details:



#### A.2.3.1

| Services                                                                                                                                 | Seal & Backing width (a1) | Classification    |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                           |                   |
| Maximum 160 mm diameter, wall thickness 4.0-9.5 mm                                                                                       | 10-30 mm                  | EI 90 U/C         |
| Maximum 160 mm diameter, wall thickness 9.5 mm                                                                                           | 10-30 mm                  | E 240, EI 180 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 160 mm diameter, wall thickness 4.9-9.5mm                                                                                        | 10-30 mm                  | EI 30 U/C         |
| PP pipe according to EN 1852-1: 2009 or DIN8077/8078                                                                                     |                           |                   |
| Maximum 160 mm diameter, wall thickness 6.2-9.1 mm                                                                                       | 10 mm                     | EI 30 U/C         |

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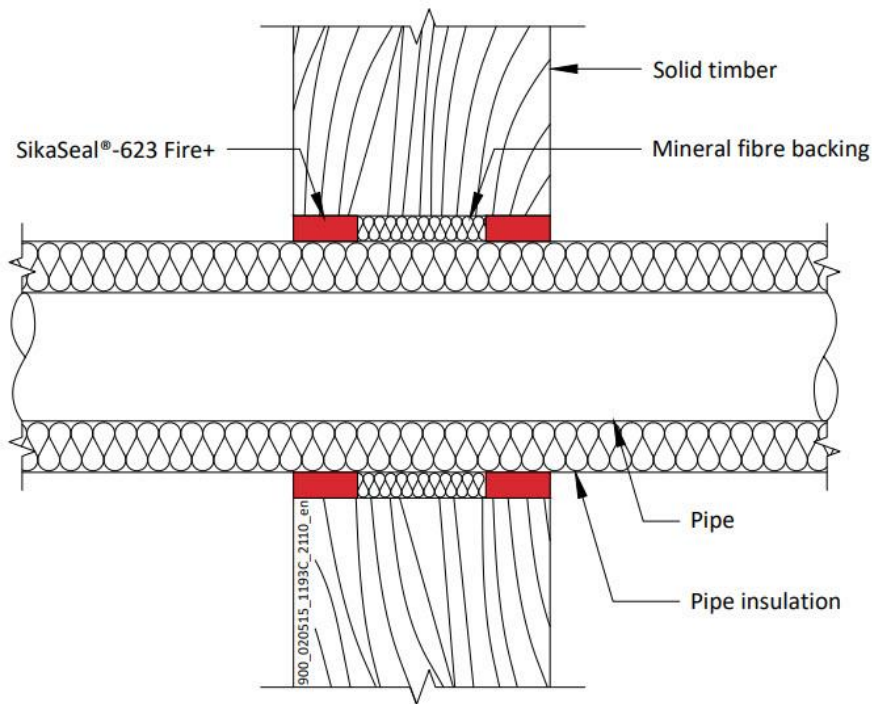
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A.3 Timber wall constructions with wall thickness of minimum 100 mm

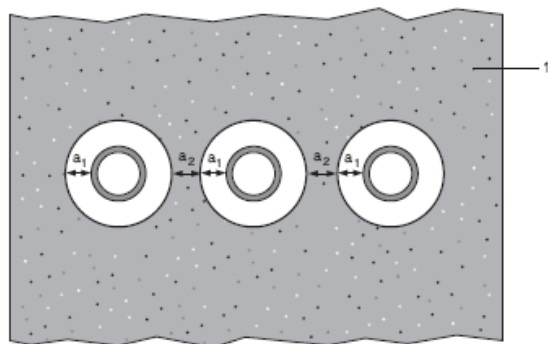
A.3.1 Pipe penetration seals, in timber walls

**Penetration Seal:** Metallic pipes insulated with Elastomeric insulation minimum class D-s3,d0, Continuous Sustained (CS), sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the wall and backed with Stonewool (minimum 33kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm (a2).

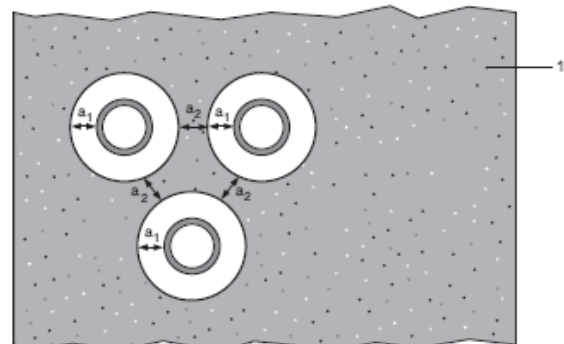
Construction details:



Configuration 1



Configuration 2



**Key**

1 Supporting construction

a<sub>1</sub> Pipe / edge of seal separation (annular space)

a<sub>2</sub> Separation between penetration seals

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### A.3.1.1

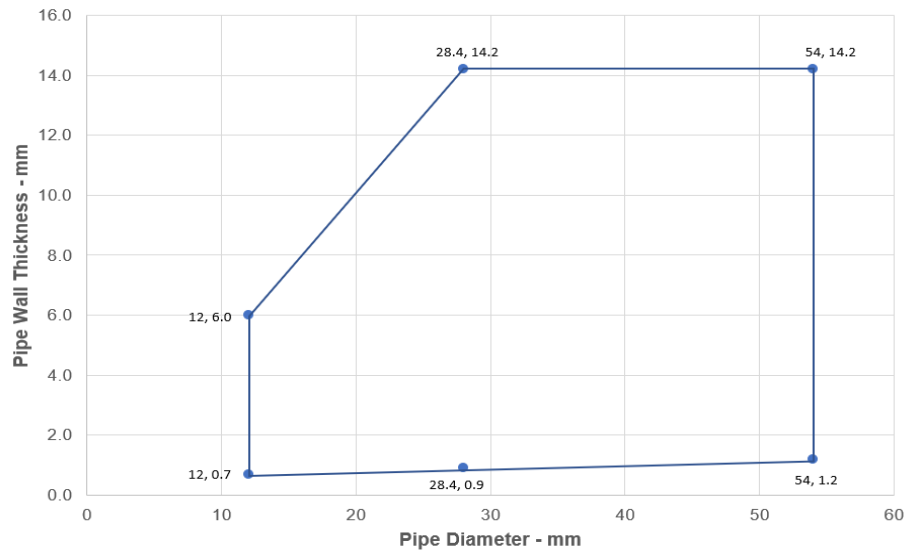
| Services                                                                         | Seal & backing material width (a1) | Permitted configuration for seal separation | Insulation CS                                           | Classification       |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|---------------------------------------------------------|----------------------|
| Copper, mild or stainless steel pipe                                             |                                    |                                             |                                                         |                      |
| Diameter 12 mm, wall thickness 0.7                                               | 10 mm                              | 1                                           | 13 mm Elastomeric insulation minimum class D-s3, d0     | EI 120 C/C           |
| Diameter 12-54 mm, wall thickness*                                               |                                    |                                             |                                                         | E 120 C/C, EI 90 C/C |
| Diameter 12-54 mm, wall thickness*                                               |                                    |                                             | 14-25 mm Elastomeric insulation minimum class D -s3, d0 | E 120 C/C, EI 30 C/C |
| Mild or stainless steel pipe, with Elastomeric insulation minimum class D-s3, d0 |                                    |                                             |                                                         |                      |
| Diameter 12-114 mm, wall thickness*                                              | 10 mm                              | 1                                           | 13 mm Elastomeric insulation minimum class D -s3, d0    | EI 90 C/C            |
| Diameter 12-114 mm, wall thickness*                                              |                                    |                                             | 14-25 mm Elastomeric insulation minimum class D-s3, d0  | E 90 C/C, EI 45 C/C  |
| Diameter 114 mm, wall thickness 1.5-14.2                                         |                                    |                                             | 13 mm Elastomeric insulation minimum class D-s3, d0     | EI 90 C/U            |
| Diameter 114 mm, wall thickness 1.5-14.2                                         |                                    |                                             | 13-25 mm Elastomeric insulation minimum class D-s3, d0  | E 90 C/U, EI 45 C/U  |
| Alupex pipe, with Elastomeric insulation minimum class D-s3, d0                  |                                    |                                             |                                                         |                      |
| Diameter 16 mm, wall thickness 2.25                                              | 10 mm                              | 1                                           | 13 mm Elastomeric insulation minimum class D-s3, d0     | EI 120 C/C           |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             |                                                         | E 120 C/C, EI 45 C/C |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             | 14-24 mm Elastomeric insulation minimum class D-s3, d0  | E 90 C/C, EI 45 C/C  |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             | 25 mm Elastomeric insulation minimum class D -s3, d0    | EI 90 C/C            |

See below graph for interpolation pipe sizes

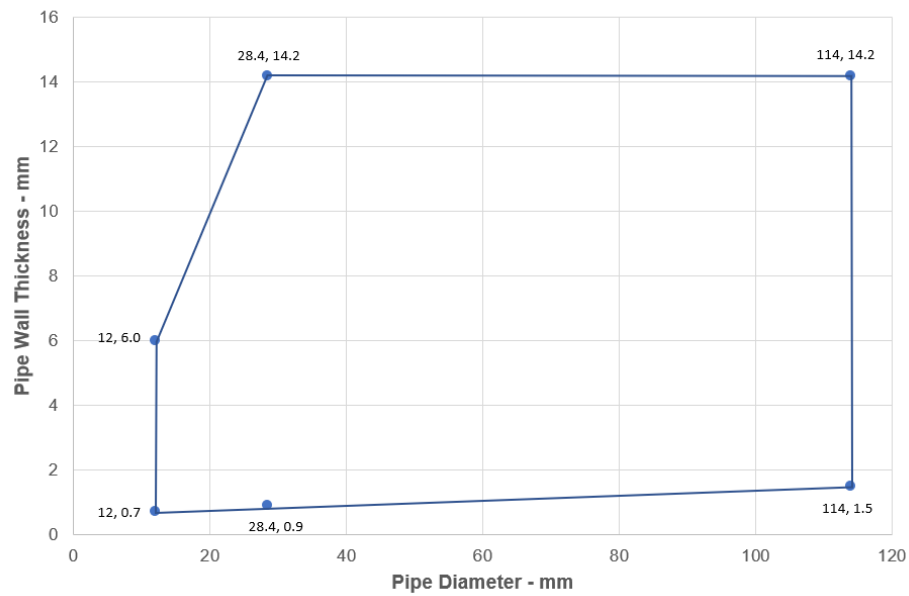
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### Copper or Steel Pipes with Elastomeric Insulation - C/C



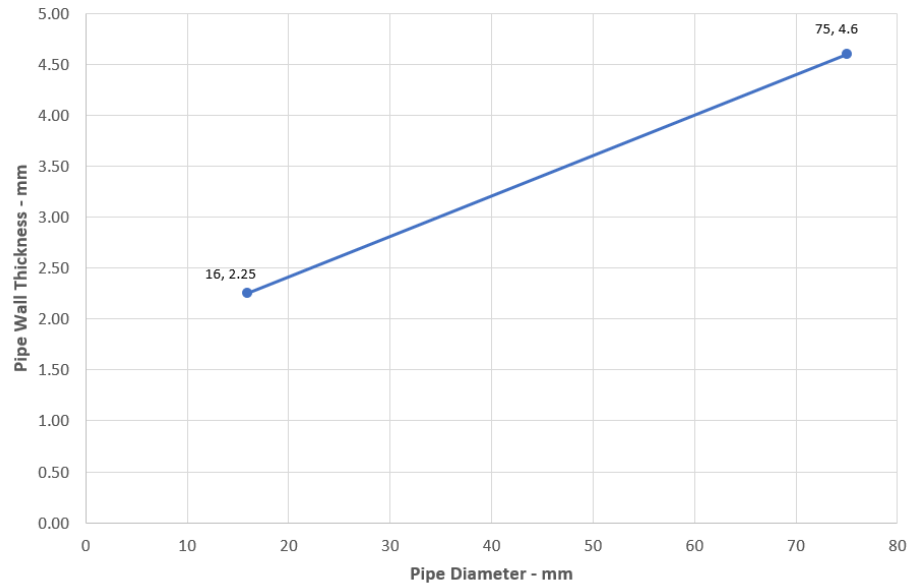
### Steel Pipes with Elastomeric Insulation - C/C



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### Alupex Pipes with Elastomeric Insulation - C/C



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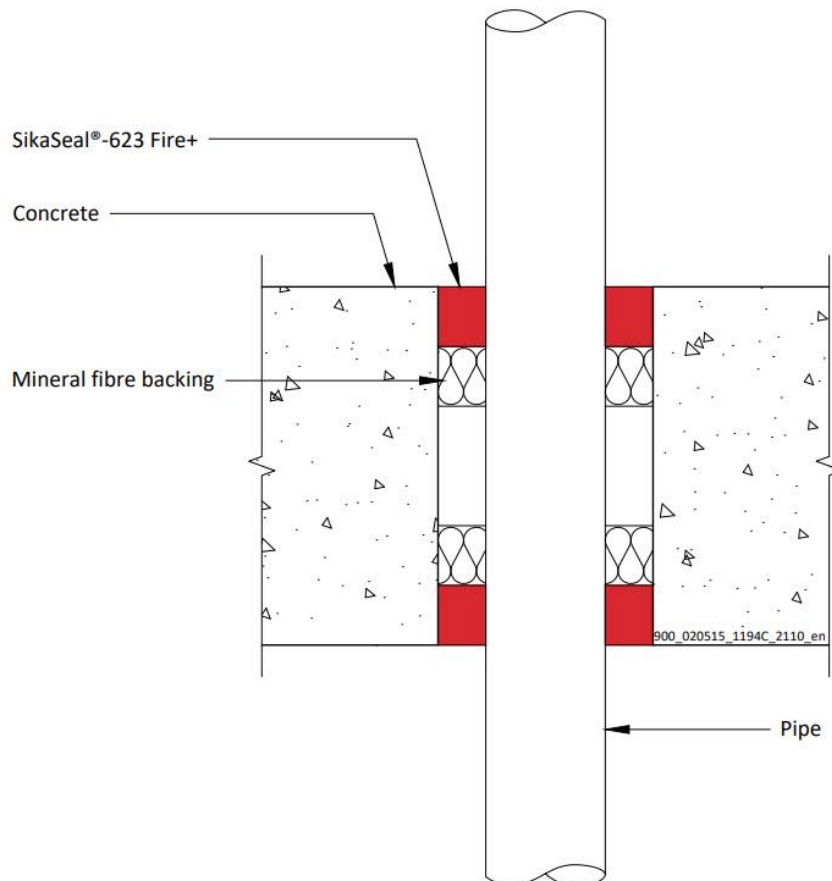
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## A.4 Rigid floor constructions with floor thickness of minimum 150 mm

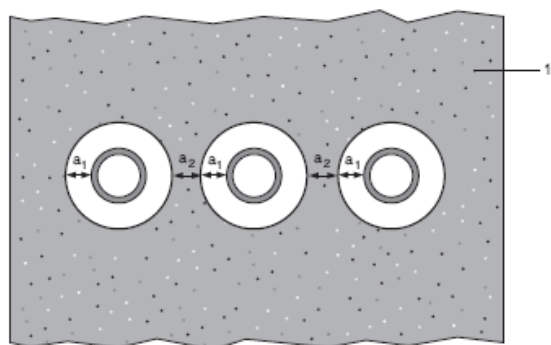
### A.4.1 Penetration seals, surface mounted in concrete floors

**Penetration Seal:** Combustible pipes sealed with SikaSeal-623 Fire+, to both sides of the floor backed with Stonewool (minimum 35kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm.

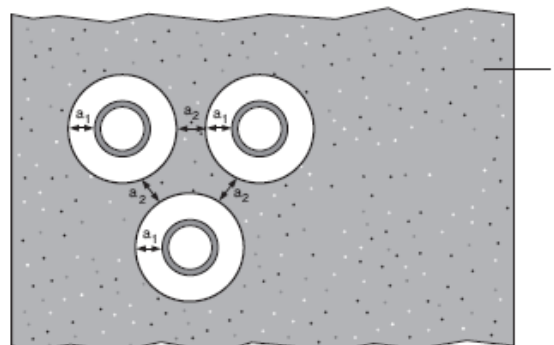
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

1 Supporting construction

a<sub>1</sub> Pipe / edge of seal separation (annular space)

a<sub>2</sub> Separation between penetration seals

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#### A.4.1.1

| Services                                                                                                                                 | Seal & Backing width                       | Permitted configuration for seal separation | Classification                                 |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                                            |                                             |                                                |
| Diameter 40 mm, wall thickness 1.8 – 3.7 mm                                                                                              | 10-30 mm                                   | 1 & 2                                       | EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C |
| Diameter 40 mm, wall thickness 1.8 – 3.7 mm to diameter 110 mm, wall thickness 2.7-6.6 mm                                                |                                            | 1 & 2                                       | EI 90 C/U, EI 90 C/C                           |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 |                                            |                                             |                                                |
| Diameter 40 mm, wall thickness 2.4-3.7 mm                                                                                                | 10-30 mm                                   | 1 & 2                                       | EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C     |
|                                                                                                                                          |                                            |                                             | EI 240 U/C, EI 240 C/C                         |
| Diameter 40, wall thickness 2.4-3.7 mm to diameter 110 mm, wall thickness 4.3-10 mm                                                      |                                            | 1 & 2                                       | EI 60 U/C, EI 60 C/C                           |
| Diameter 110 mm, wall thickness 4.3-10 mm                                                                                                |                                            | 1 & 2                                       | EI 90 U/C, EI 90 C/C                           |
| Diameter 110 mm, wall thickness 10 mm                                                                                                    | EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C |                                             |                                                |

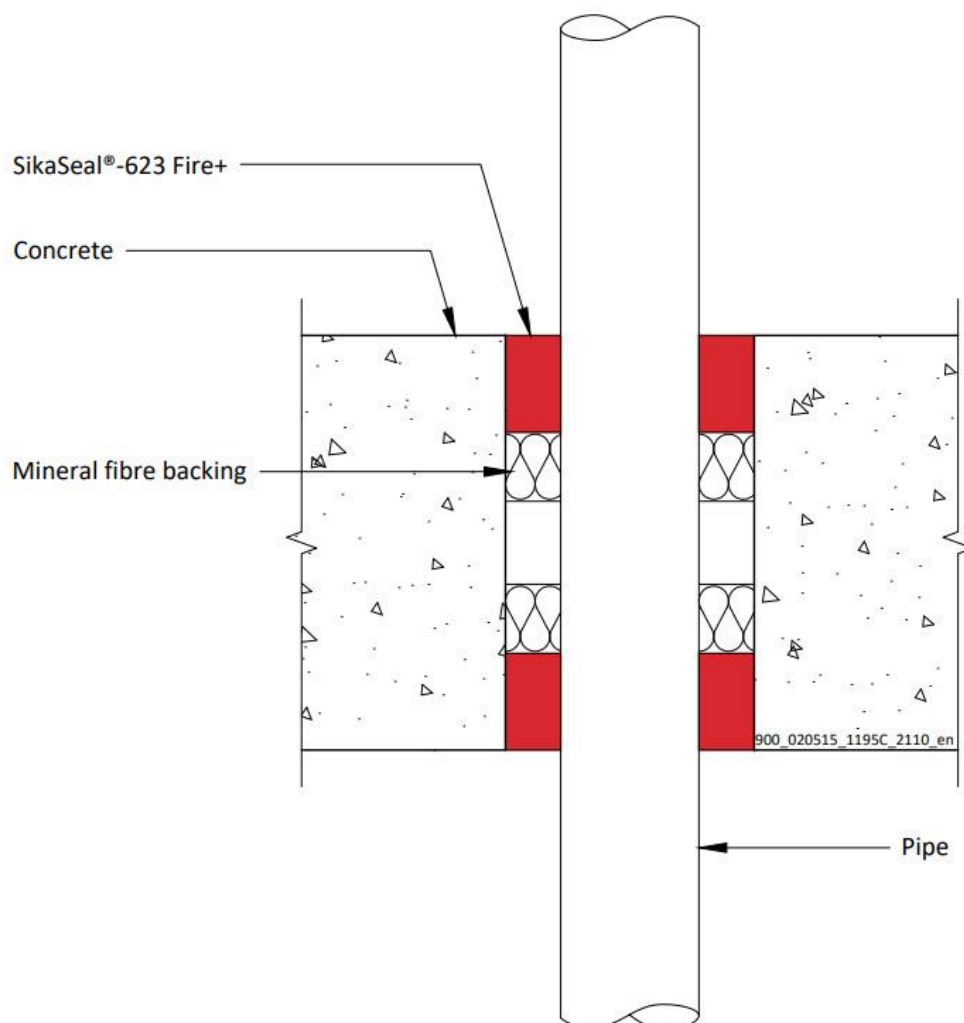
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## A.4.2 Penetration seals, surface mounted in concrete floors

**Penetration Seal:** Combustible pipes sealed with SikaSeal-623 Fire+, minimum 35 mm deep to both sides of the floor backed with Mineral Bio Wool (128kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm.

Construction details:



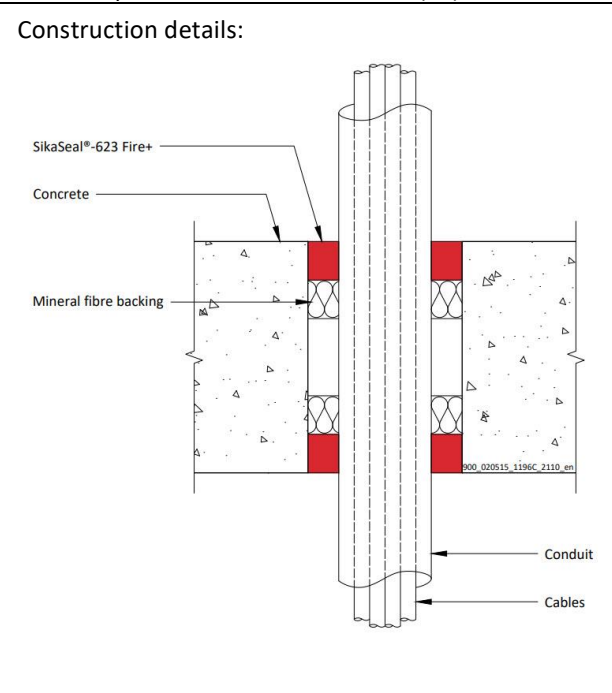
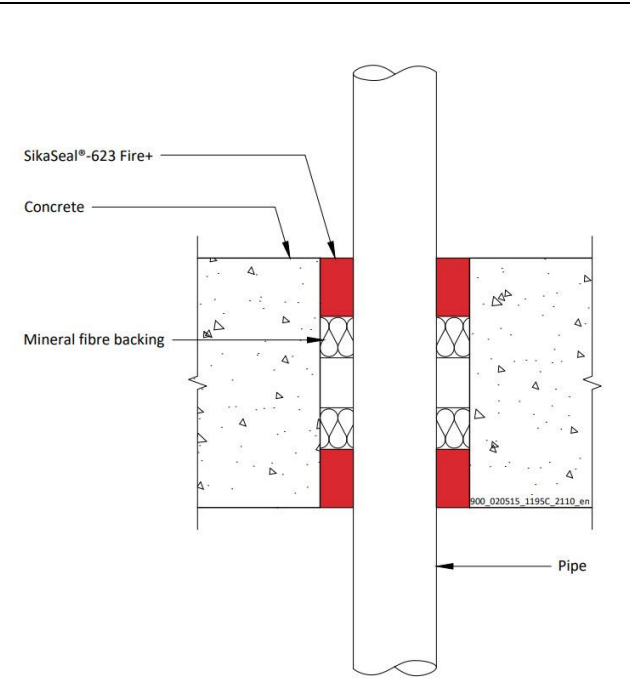
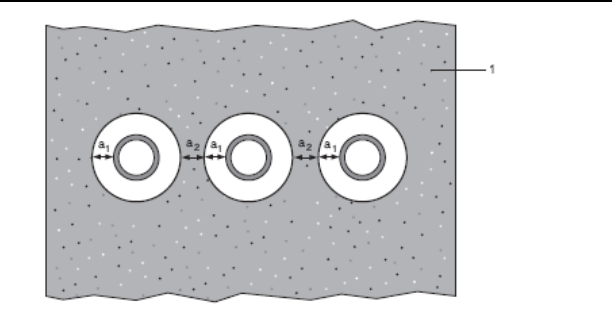
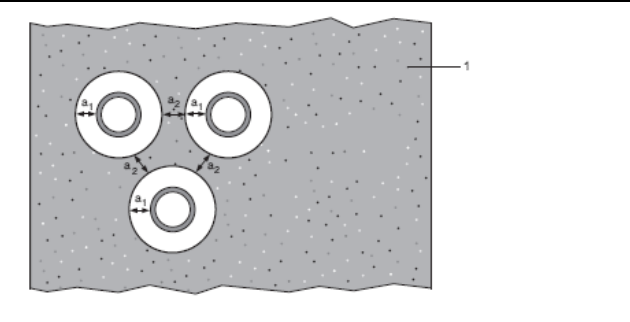
### A.4.2.1

| Services                                                                                                                                 | Seal & Backing width (a1) | Classification   |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                           |                  |
| Maximum 160 mm diameter, wall thickness 4.0-9.5mm                                                                                        | 10-30 mm                  | <b>EI 60 U/C</b> |
| 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 160 mm diameter, wall thickness 4.9-14.6 mm                                                                                      | 10-30 mm                  | <b>EI 30 U/C</b> |
| Maximum 160 mm diameter, wall thickness 14.6 mm                                                                                          | 10-30 mm                  | <b>EI 60 U/C</b> |

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A.4.3 Penetration seals, surfaces mounted in concrete floors

|                                                                                                                                                                                                                                                                                     |                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <p><b>Penetration Seal:</b> Combustible pipes sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the floor backed with Rock mineral wool (minimum 33kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm (a2).</p> |                                                                                                                    |
| <p>Construction details:</p>                                                                                                                                                                       |                                  |
| <p><b>Configuration 1</b></p>                                                                                                                                                                    | <p><b>Configuration 2</b></p>  |
| <p><b>Key</b><br/>1 Supporting construction<br/>a1 Pipe / edge of seal separation (annular space)<br/>a2 Separation between penetration seals</p>                                                                                                                                   |                                                                                                                    |

#### A.4.3.1

| Services                                                                                                                                         | Seal width (a1) | Permitted configuration for seal separation | Classification |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------|----------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1 or PP pipe according to EN 1852-1: 2009 or DIN8077/8078 |                 |                                             |                |
| Maximum diameter 110 mm, wall thickness 1.8-6.6 mm for PVC pipes, fully or partially filled conduits with cables up to 20 mm diameter            | 10-30 mm        | 1 & 2                                       | EI 90 U/C      |
| Maximum diameter 110 mm, wall thickness 2.7 mm for PP pipes, fully or partially filled conduits with cables up to 20 mm diameter                 | 10-30 mm        | 1 & 2                                       | EI 90 U/C      |
| Maximum diameter 110 mm, wall thickness 1.8-6.3 mm for PP pipes, fully or partially filled conduits with cables up to 20 mm diameter             | 10-30 mm        | 1 & 2                                       | EI 30 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 110 mm, wall thickness 2.4-10 mm, fully or partially filled conduits with cables up to 20 mm diameter                           | 10-30 mm        | 1 & 2                                       | EI 60 U/C      |
| PP pipe according to EN 1852-1: 2009 or DIN8077/8078                                                                                             |                 |                                             |                |
| Maximum 40 mm diameter, wall thickness 1.8 mm                                                                                                    | 10-30 mm        | 1 & 2                                       | EI 120 C/C     |
| Maximum 110 mm diameter, wall thickness 1.8-6.3 mm                                                                                               | 10-30 mm        | 1 & 2                                       | EI 30 U/C      |

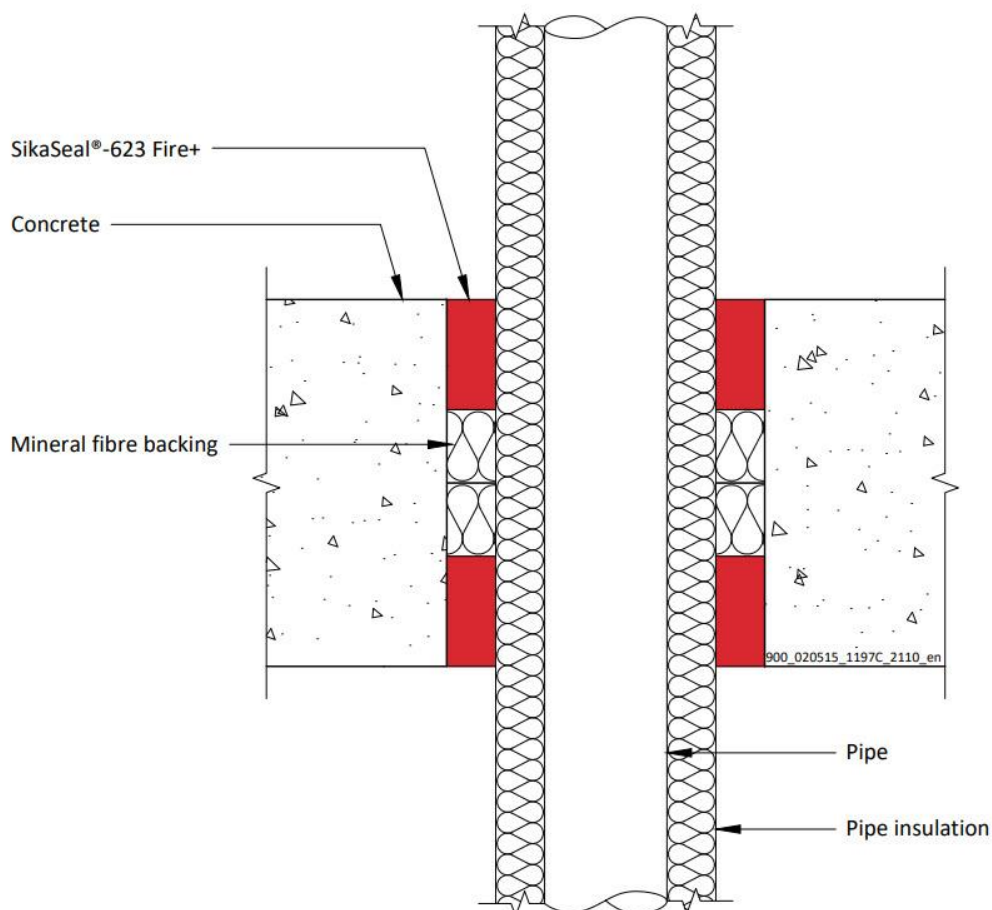
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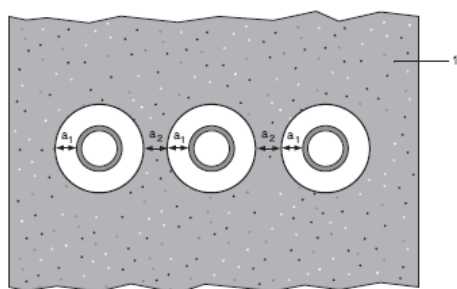
#### A.4.4 Penetration seals, surface mounted in concrete floors

**Penetration Seal:** Metallic pipes insulated with Elastomeric insulation minimum class B-s3, d0, Continuous Sustained (CS), sealed with SikaSeal-623 Fire+, minimum 45 mm deep to both sides of the floor and backed with Mineral Bio Wool (128kg/m<sup>3</sup> density), minimum 30 mm deep. Minimum separation between penetration seals of 30 mm mm (a2).

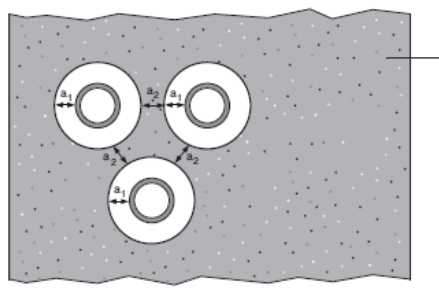
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

1 Supporting construction

a<sub>1</sub> Pipe / edge of seal separation (annular space)

a<sub>2</sub> Separation between penetration seals

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**A.4.4.1**

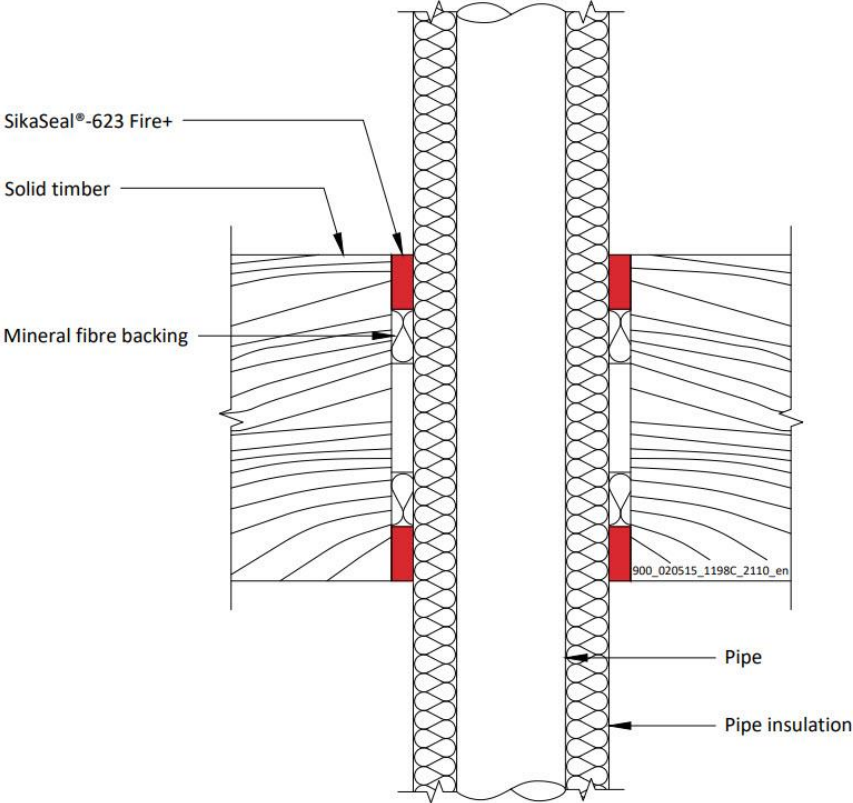
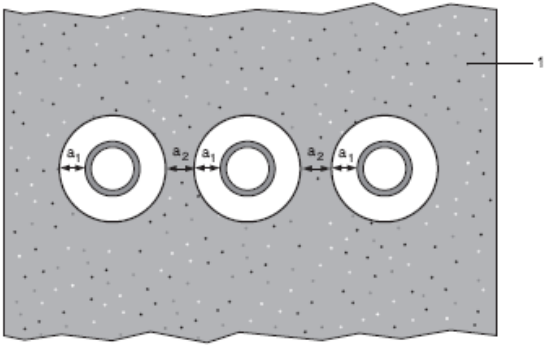
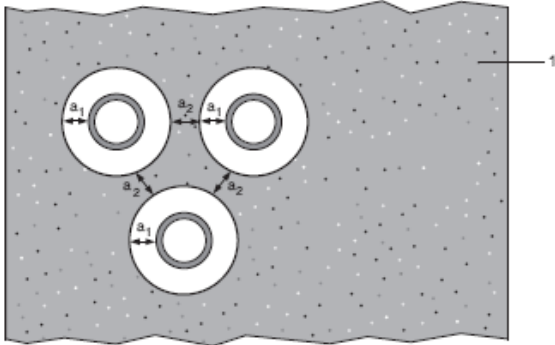
| Services                                                                         | Seal & backing material width (a1) | Permitted configuration for seal separation | Insulation CS                                          | Classification    |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------|
| Mild or stainless steel pipe, with Elastomeric insulation minimum class B-s3, d0 |                                    |                                             |                                                        |                   |
| Maximum 324 mm diameter, wall thickness 1.0-14.2 mm                              | 10-30 mm                           | 1 & 2                                       | 25-50 mm Elastomeric insulation minimum class B-s3, d0 | <b>EI 60 C/U</b>  |
| Maximum 324 mm diameter, wall thickness 6.35-14.2 mm                             | 10-30 mm                           | 1 & 2                                       | 50 mm Elastomeric insulation minimum class B-s3, d0    | <b>EI 120 C/U</b> |

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A.5 Timber floor constructions with floor thickness of minimum 150 mm

A.5.1 Pipe penetration seals, in timber floors

|                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <p><b>Penetration Seal:</b> Metallic pipes insulated with Elastomeric insulation minimum class D-s3,d0, Continuous Sustained (CS), sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the floor and backed with Stonewool (minimum 33kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 0 mm (a2).</p> |                                                                                                                    |
| <p>Construction details:</p>                                                                                                                                                                                                                                                     |                                                                                                                    |
| <p><b>Configuration 1</b></p>                                                                                                                                                                                                                                                    | <p><b>Configuration 2</b></p>  |
| <p><b>Key</b></p> <p>1 Supporting construction</p> <p>a1 Pipe / edge of seal separation (annular space)</p> <p>a2 Separation between penetration seals</p>                                                                                                                                                                                                          |                                                                                                                    |

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### A.5.1.1

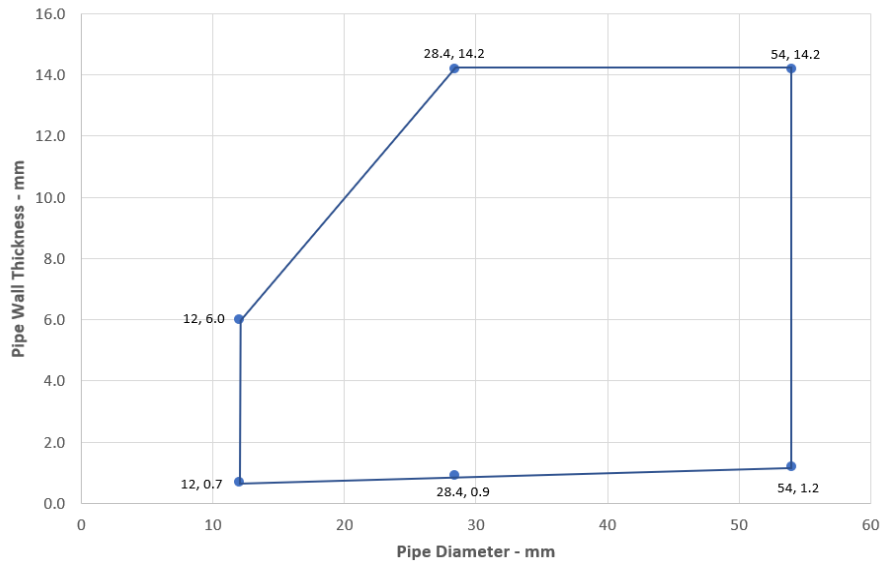
| Services                                                                         | Seal & backing material width (a1) | Permitted configuration for seal separation | Insulation CS                                          | Classification       |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|--------------------------------------------------------|----------------------|
| Copper, mild or stainless steel pipe                                             |                                    |                                             |                                                        |                      |
| Diameter 12 mm, wall thickness 0.7                                               | 10 mm                              | 1                                           | 9 mm Elastomeric insulation minimum class D-s3, d0     | EI 120 C/C           |
| Diameter 12-54 mm, wall thickness*                                               |                                    |                                             |                                                        | E 120 C/C, EI 45 C/C |
| Diameter 12-54 mm, wall thickness*                                               |                                    |                                             | 10-25 mm Elastomeric insulation minimum class D-s3, d0 | E 120 C/C, EI 30 C/C |
| Mild or stainless steel pipe, with Elastomeric insulation minimum class D-s3, d0 |                                    |                                             |                                                        |                      |
| Diameter 12-114 mm, wall thickness*                                              | 10 mm                              | 1                                           | 9-24 mm Elastomeric insulation minimum class D-s3, d0  | E 120 C/C, EI 45 C/C |
| Diameter 12-114 mm, wall thickness*                                              |                                    |                                             | 25 mm Elastomeric insulation minimum class D-s3, d0    | E 120 C/C, EI 60 C/C |
| Diameter 114 mm, wall thickness 1.5-14.2                                         |                                    |                                             | 9-25 mm Elastomeric insulation minimum class D-s3, d0  | E 120 C/U, EI 45 C/U |
| Diameter 114 mm, wall thickness 1.5-14.2                                         |                                    |                                             | 25 mm Elastomeric insulation minimum class D-s3, d0    | E 120 C/U, EI 60 C/U |
| Alupex pipe, with Elastomeric insulation minimum class D-s3, d0                  |                                    |                                             |                                                        |                      |
| Diameter 16 mm, wall thickness 2.25                                              | 10 mm                              | 1                                           | 9 mm Elastomeric insulation minimum class D-s3, d0     | EI 120 C/C           |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             | 9-24 mm Elastomeric insulation minimum class D-s3, d0  | E 120 C/C, EI 60 C/C |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             | 25 mm Elastomeric insulation minimum class D-s3, d0    | E 120 C/C, EI 90 C/C |

\*See below graph for interpolation pipe sizes

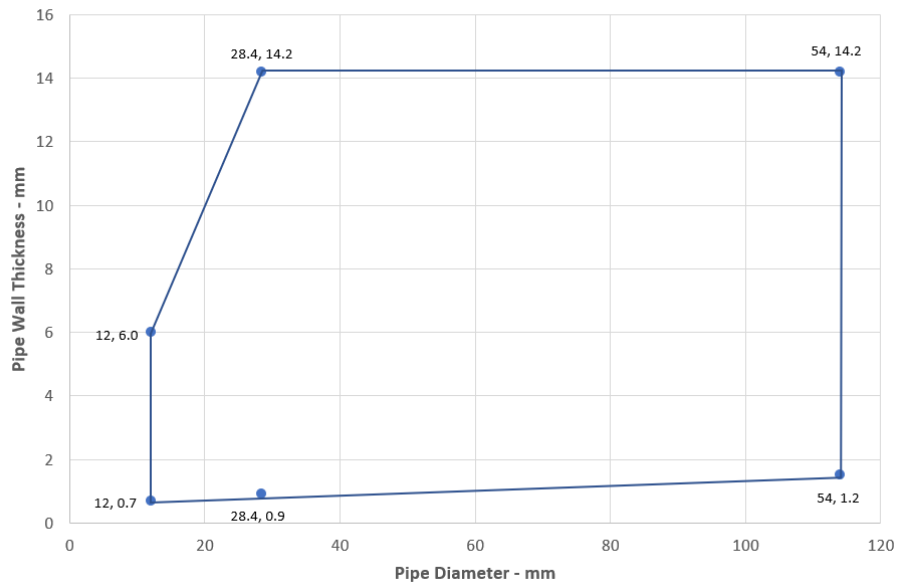
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### Copper or Steel Pipes with Elastomeric Insulation - C/C



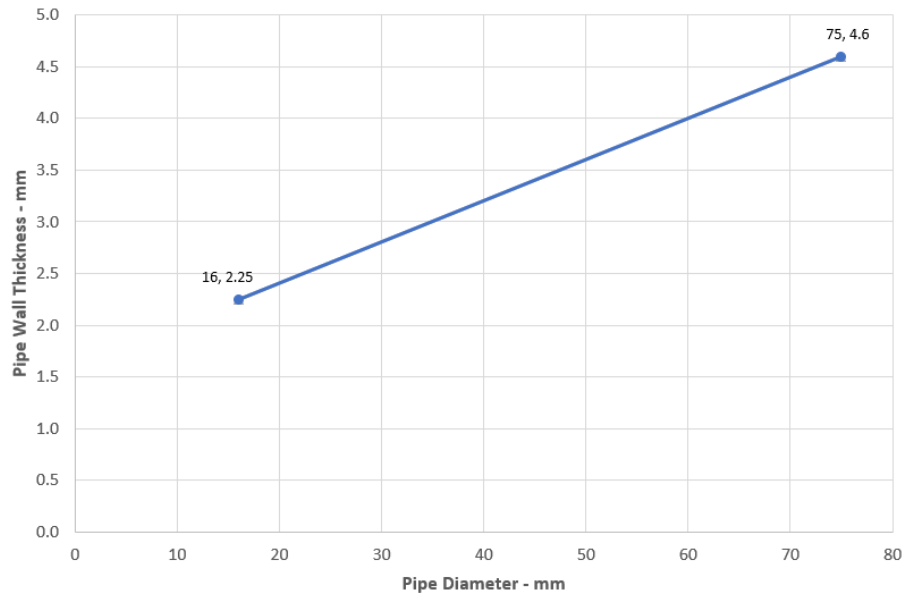
### Steel Pipes with Elastomeric Insulation - C/C



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### Alupex Pipes with Elastomeric Insulation - C/C

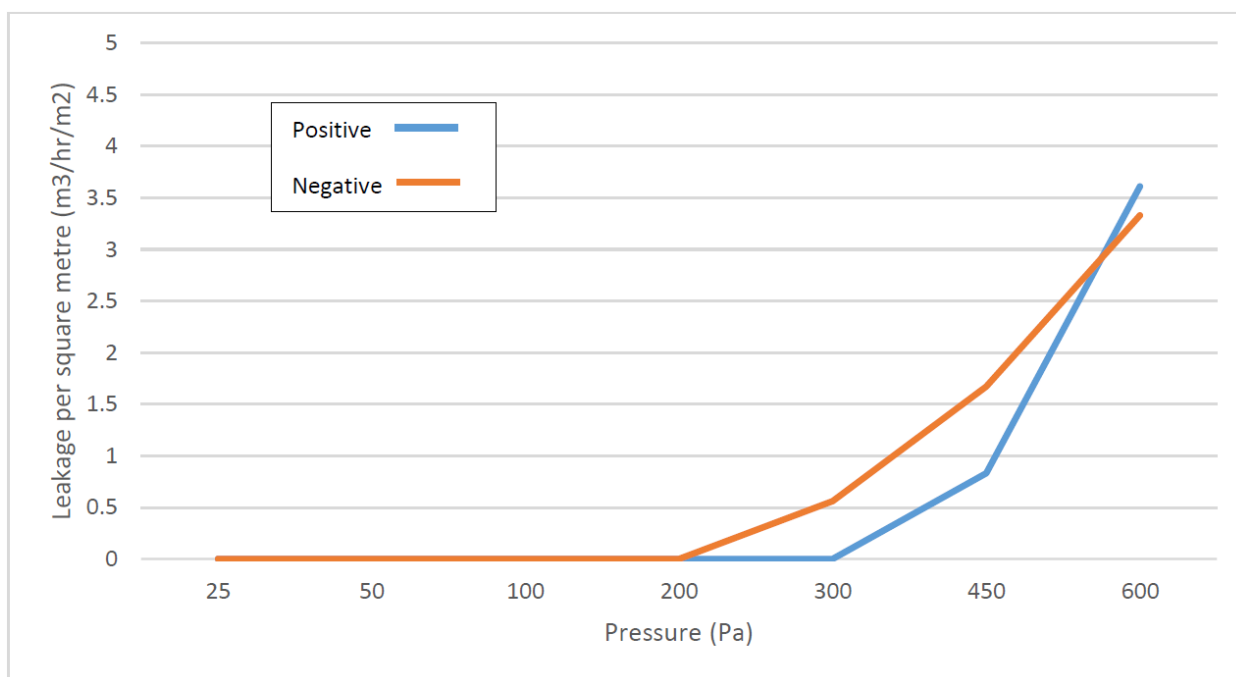


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## ANNEX B – AIR PERMEABILITY – SIKASEAL-623 FIRE+

| Product tested                          | 25mm deep x 30mm wide SikaSeal-623 Fire+ |                             |                                             |
|-----------------------------------------|------------------------------------------|-----------------------------|---------------------------------------------|
| Summary of testing procedure            |                                          |                             | Result                                      |
|                                         | Pressure (Pa)                            | Leakage (m <sup>3</sup> /h) | Leakage (m <sup>3</sup> /m <sup>2</sup> /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                                      | 0.12                        | 3.33                                        |
| 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                                      | 0.03                        | 0.83                                        |
|                                         | 600                                      | 0.13                        | 3.61                                        |



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**8 LÄMPLIG TEKNISK DOKUMENTATION OCH/ELLER  
SÄRSKILD TEKNISK DOKUMENTATION**

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Prestandan för ovanstående produkt överensstämmer med den angivna prestandan.  
Denna prestandadeklaration har utfärdats i enlighet med förordning (EU) nr 305/2011  
på eget ansvar av den tillverkare som anges ovan.

Undertecknad på tillverkarens vägnar av:

---

Namn: Daniel Jonsson  
Funktion: VD  
Spånga den 22 januari 2025



---

Namn: Jörgen Backman  
Funktion: Produktchef  
Spånga den 22 januari 2025



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Slut på information som krävs enligt förordning (EU) nr. 305/2011

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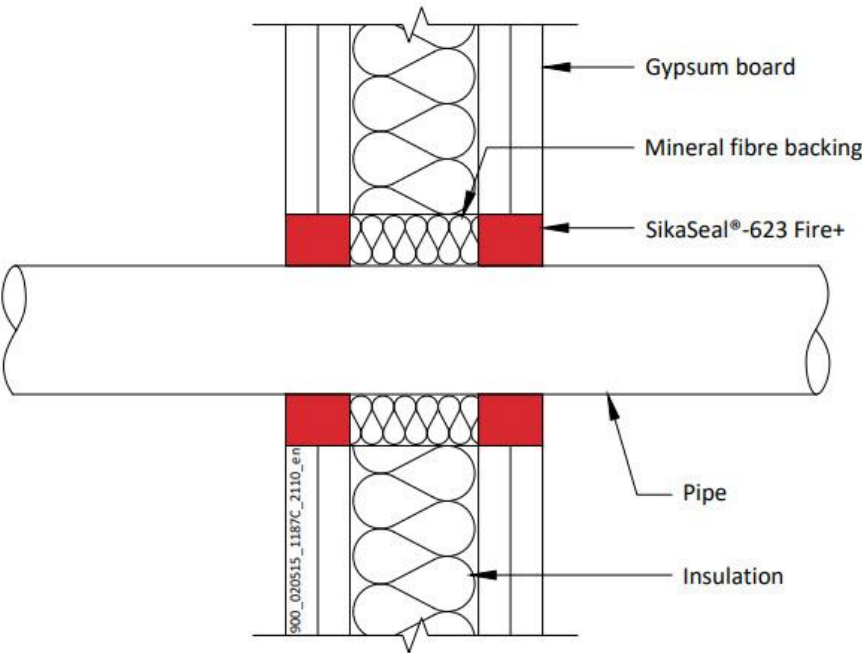
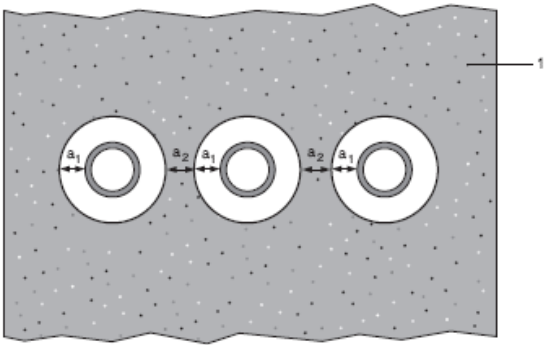
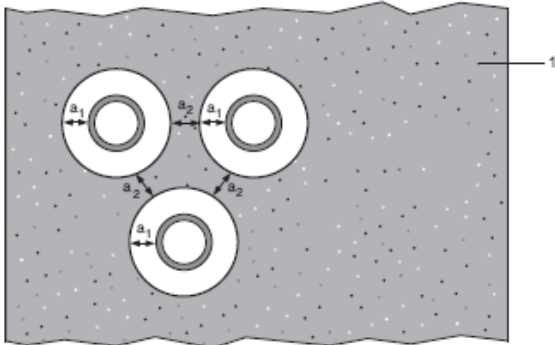
FULL CE MARK

|                                                       |
|-------------------------------------------------------|
| <div>CE</div> <div>21</div>                           |
| Sika Services AG, Zurich, Switzerland                 |
| 54864880                                              |
| Reaction to fire - B - s1, d0                         |
| Resistance to fire - Annex A                          |
| Air permeability – Annex B                            |
| Durability Z <sub>2</sub>                             |
| Airborne sound insulation at 25 mm depth 53 (0;-1) dB |

ANNEX A – RESISTANCE TO FIRE CLASSIFICATION – SIKASEAL-623 FIRE+

A.1 Flexible or Rigid wall constructions with wall thickness of minimum 100 mm

A.1.1 Penetration seals, in drywalls\* and concrete/masonry walls

|                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <p><b>Penetration Seal:</b> Combustible pipes sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the wall backed with Stonewool (minimum 35kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm (a2).</p> <p>Construction details:</p>  |                                                                                                                    |
| <p><b>Configuration 1</b></p>                                                                                                                                                                                                                                                                            | <p><b>Configuration 2</b></p>  |
| <p><b>Key</b></p> <p>1 Supporting construction</p> <p>a<sub>1</sub> Pipe / edge of seal separation (annular space)</p> <p>a<sub>2</sub> Separation between penetration seals</p>                                                                                                                                                                                                            |                                                                                                                    |

\* Partition wall must incorporate a core insulation as support for the backing material.

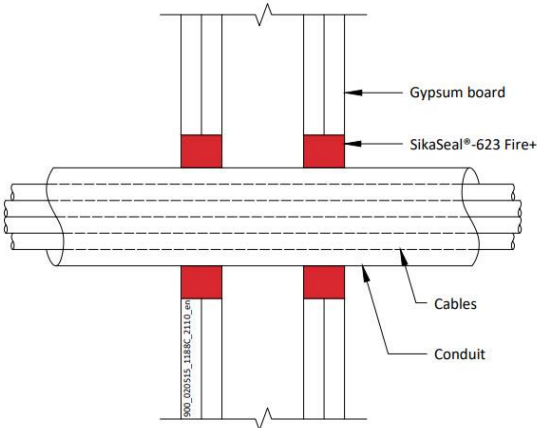
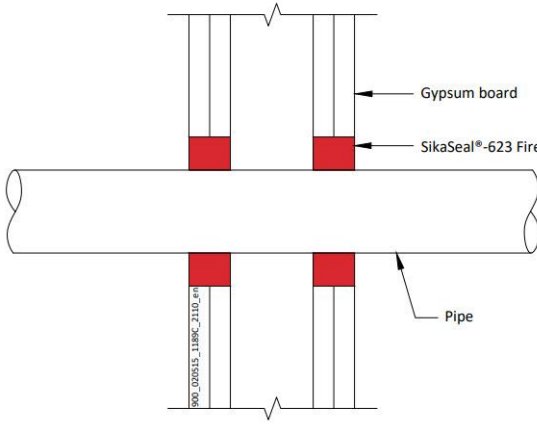
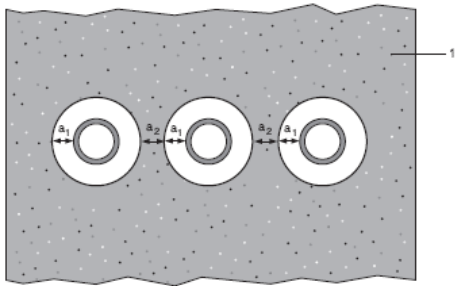
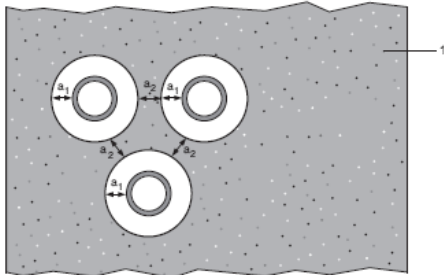
### A.1.1.1

| Services                                                                                                                                 | Seal & Backing width (a1) | Permitted configuration for seal separation | Classification                               |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------|----------------------------------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                           |                                             |                                              |
| Diameter 40 mm, wall thickness 1.9 – 3.7 mm to diameter 110 mm, wall thickness 2.7-6.6 mm                                                | 10-30 mm                  | 1 & 2                                       | EI 120 U/C, EI 120 C/C                       |
| Diameter 40, wall thickness 1.9 – 3.7 mm                                                                                                 |                           | 1 & 2                                       |                                              |
| Diameter 40 mm, wall thickness 1.9 – 3.7 mm to diameter 110 mm, wall thickness 2.7-6.6 mm                                                |                           | 1 & 2                                       | EI 60 U/C, EI 60 C/C                         |
| Diameter 40 mm, wall thickness 1.9 – 3.7 mm to diameter 110 mm, wall thickness 2.7-6.6 mm                                                |                           | 1 & 2                                       | EI 120 U/C, EI 120 C/C                       |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 |                           |                                             |                                              |
| Diameter 40 mm, wall thickness 2.4-3.7 mm                                                                                                | 10-30 mm                  | 1 & 2                                       | EI 120 U/C, EI 120 C/C                       |
| Diameter 40, wall thickness 2.4-3.7 mm to diameter 110 mm, wall thickness 4.3-10 mm                                                      |                           | 1 & 2                                       | EI 60 U/C, EI 60 C/C                         |
| Diameter 110 mm, wall thickness 4.3-10 mm                                                                                                |                           | 1                                           | E 120 U/C, E 120 C/C<br>EI 90 U/C, EI 90 C/C |
| PP pipe according to EN 1852-1: 2009 or DIN8077/8078                                                                                     |                           |                                             |                                              |
| Diameter 110 mm, wall thickness 6.6 mm                                                                                                   | 30 mm                     | 1 & 2                                       | EI 120 U/C, EI 120 C/C                       |
| Diameter 40 mm, wall thickness 1.8 - 5.5 mm                                                                                              | 10 mm                     | 1 & 2                                       | EI 90 U/C                                    |

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A.1.2 Penetration seals with no backing material, in drywalls and concrete/masonry walls

|                                                                                                                                                                                                                                            |                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Penetration Seal:</b> Combustible cable conduit or combustible pipes sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the wall without backing material. Minimum separation between penetration seals of 30 mm (a2). |                                                                                                                   |
| <p>Construction details:</p>                                                                                                                              | <p>Construction details:</p>    |
| <p><b>Configuration 1</b></p>                                                                                                                            | <p><b>Configuration 2</b></p>  |
| <p><b>Key</b></p> <p>1 Supporting construction</p> <p>a1 Pipe / edge of seal separation (annular space)</p> <p>a2 Separation between penetration seals</p>                                                                                 |                                                                                                                   |

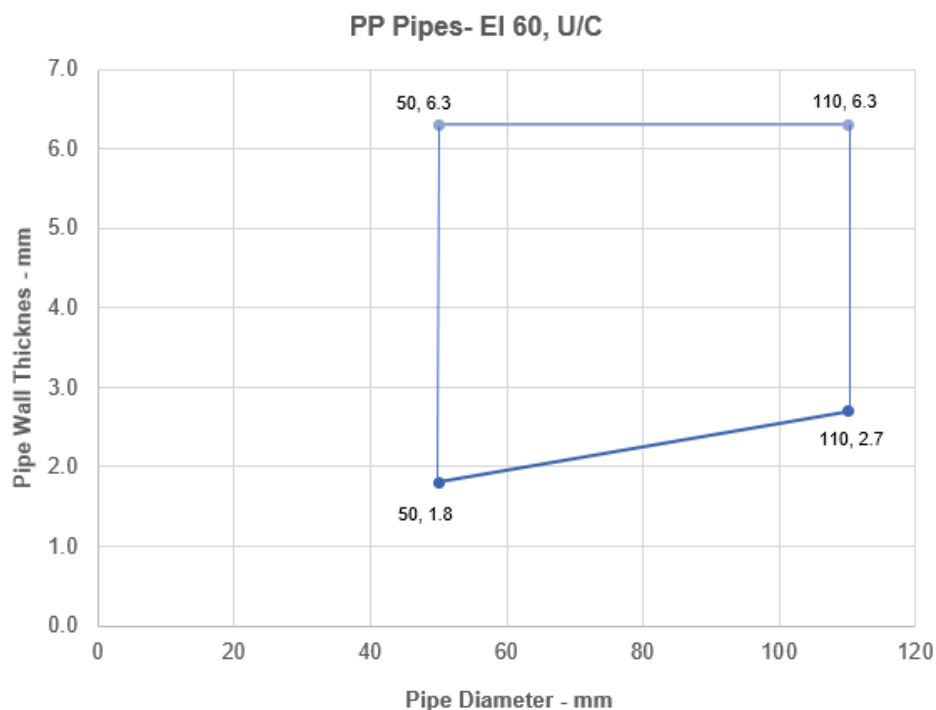
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### A.1.2.1

| Services                                                                                                                                         | Seal width (a1) | Permitted configuration for seal separation | Classification |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------|----------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1 or PP pipe according to EN 1852-1: 2009 or DIN8077/8078 |                 |                                             |                |
| Maximum diameter 110 mm, wall thickness 1.9-6.6 mm for PVC pipes, fully or partially filled conduits with cables up to 20mm diameter             | 10-30 mm        | 1 & 2                                       | EI 90 U/C      |
| Maximum diameter 110 mm, wall thickness 2.7-6.6 mm for PP pipes, fully or partially filled conduits with cables up to 20mm diameter              | 10-30 mm        | 1 & 2                                       | EI 90 U/C      |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1         |                 |                                             |                |
| Maximum diameter 110 mm, wall thickness 2.4-10 mm, fully or partially filled conduits with cables up to 20 mm conduit                            | 10-30 mm        | 1 & 2                                       | EI 60 U/C      |
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                         |                 |                                             |                |
| Maximum 160 mm diameter, wall thickness 3.2-9.5 mm                                                                                               | 10-30 mm        | 1 & 2                                       | EI 30 U/C      |
| Maximum 160 mm diameter, wall thickness 9.5 mm                                                                                                   | 10-30 mm        | 1 & 2                                       | EI 90 U/C      |
| PP pipe according to EN 1852-1: 2009 or DIN8077/8078                                                                                             |                 |                                             |                |
| Maximum 110 mm, wall thickness 2.7 mm                                                                                                            | 10-30 mm        | 1 & 2                                       | EI 60 C/C      |
| Maximum 110 mm*                                                                                                                                  | 10-30 mm        | 1 & 2                                       | EI 60 U/C      |

\*See below graph for interpolation pipe sizes



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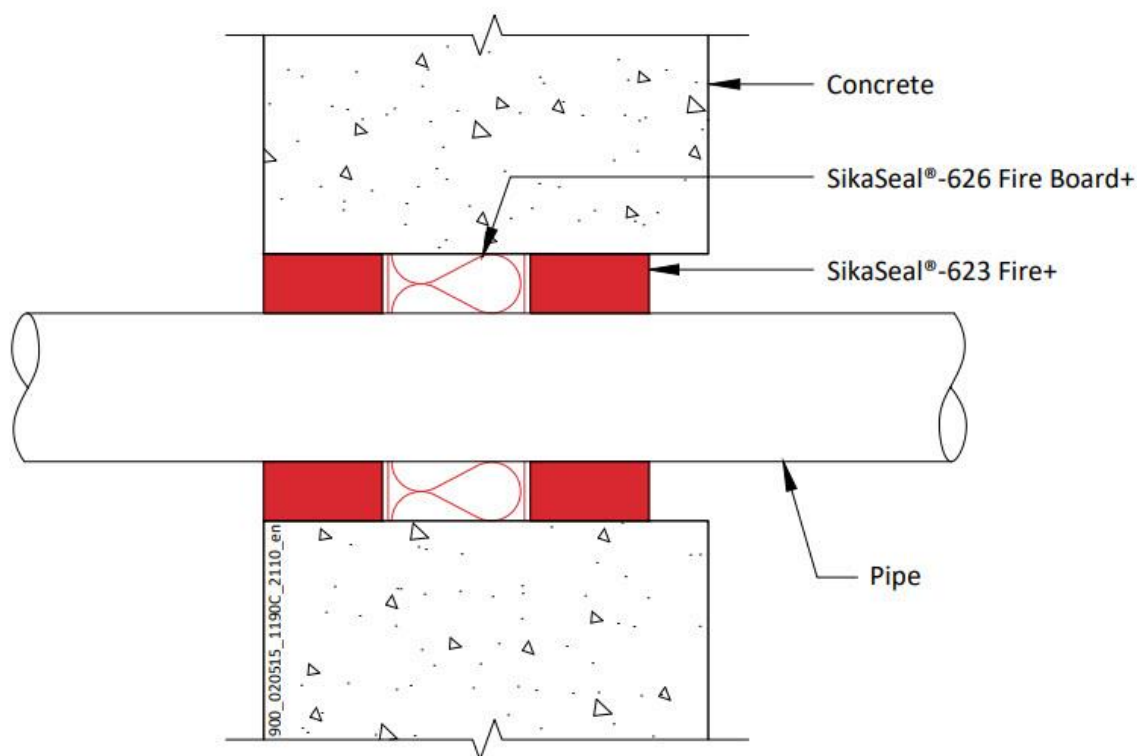
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## A.2 Rigid walls constructions with wall thickness of minimum 150 mm

### A.2.1 Penetration seals for pipes, in concrete/masonry walls

**Penetration Seal:** Combustible pipes sealed with minimum 40 mm deep SikaSeal-623 Fire+, to both sides of the wall backed with SikaSeal-626 Fire Board+ 2S, 50 mm thick. Minimum separation between penetration seals of 30 mm.

Construction details:



#### A.2.1.1

| Services                                                                                                                                 | Seal & Backing width | Classification         |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                      |                        |
| Diameter 48 mm, wall thickness 3.2 mm                                                                                                    | 17 mm                | EI 240 U/C, EI 240 C/C |
| Diameter 68 mm, wall thickness 2 mm                                                                                                      | 41 mm                |                        |
| Diameter 110 mm, wall thickness 3.5 mm                                                                                                   | 22 mm                |                        |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 |                      |                        |
| Diameter 32 mm, wall thickness 3.2 mm                                                                                                    | 25 mm                | EI 240 U/C, EI 240 C/C |
| ABS pipe according to EN 1455-1                                                                                                          |                      |                        |
| Diameter 36 mm, wall thickness 2.3 mm                                                                                                    | 23 mm                | EI 240 U/C, EI 240 C/C |
| Diameter 110 mm, wall thickness 3.5 mm                                                                                                   | 26 mm                |                        |

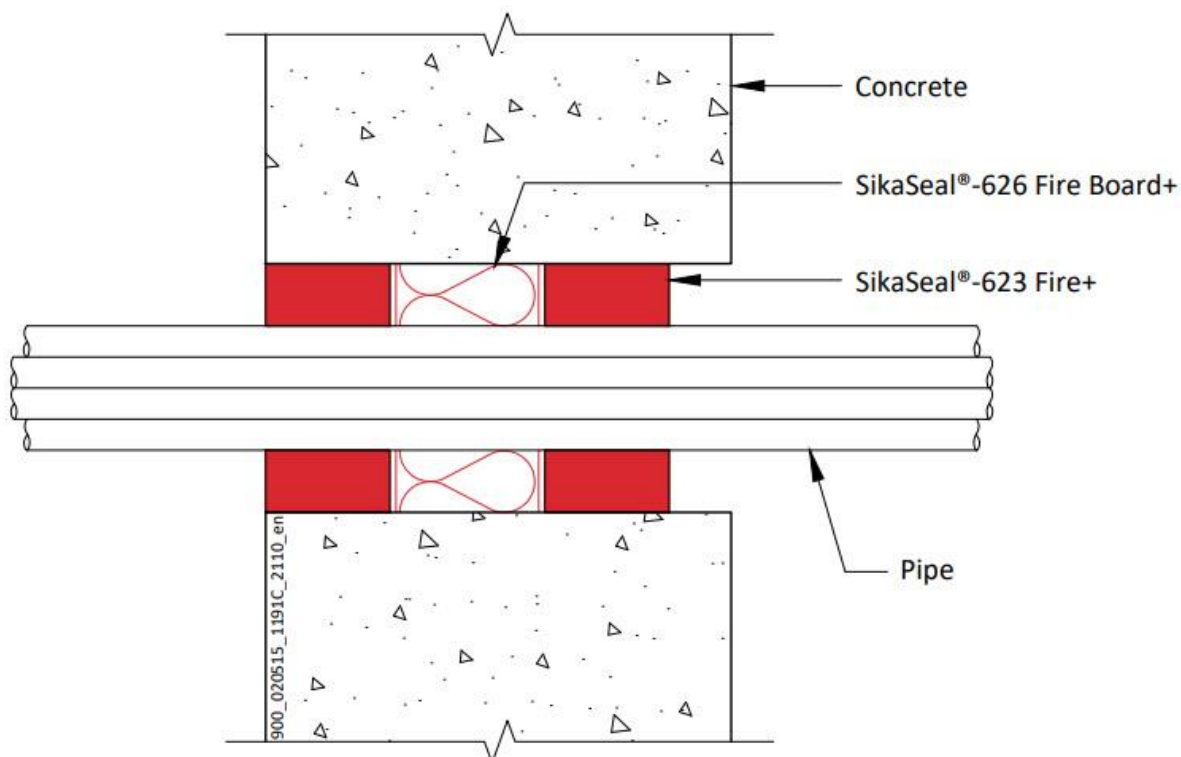
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## A.2.2 Penetration seals for cables, in concrete/masonry walls

**Penetration Seal:** Cables sealed with minimum 40 mm deep SikaSeal-623 Fire+, to both sides of the wall backed with SikaSeal-626 Fire Board+ 2S, 50 mm thick. Minimum separation between penetration seals of 30 mm.

Construction details:



### A.2.2.1

| Services                                                                                                     | Seal size<br>(WxH or diameter) | Classification       |
|--------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------|
| 150 x 25 mm perforated steel cable tray                                                                      | Maximum 200 x 100 mm           | <b>E 240, EI 180</b> |
| 20 mm diameter, single copper core armoured cable                                                            |                                |                      |
| Twin/earth cable                                                                                             |                                |                      |
| Ø 100 mm bundle of up to 4 no. 20mm diameter, single copper core armoured cable and 12 no. twin/earth cables | Maximum 150 mm Ø               | <b>E240, EI 60</b>   |

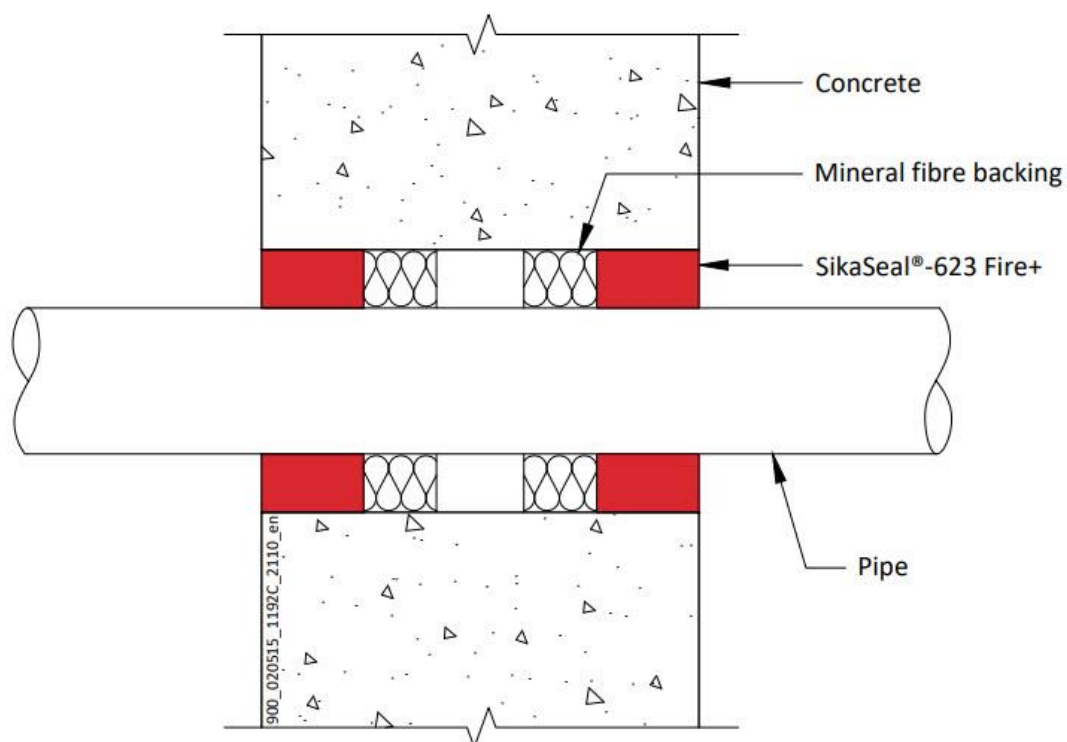
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### A.2.3 Penetration seals for pipes, in concrete/masonry walls

**Penetration Seal:** Combustible pipes sealed with minimum 35 mm deep SikaSeal-623 Fire+, to both sides of the wall backed with Mineral Bio backing material, minimum 25 mm thick. Minimum separation between penetration seals of 30 mm.

Construction details:



#### A.2.3.1

| Services                                                                                                                                 | Seal & Backing width (a1) | Classification    |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                           |                   |
| Maximum 160 mm diameter, wall thickness 4.0-9.5 mm                                                                                       | 10-30 mm                  | EI 90 U/C         |
| Maximum 160 mm diameter, wall thickness 9.5 mm                                                                                           | 10-30 mm                  | E 240, EI 180 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 160 mm diameter, wall thickness 4.9-9.5mm                                                                                        | 10-30 mm                  | EI 30 U/C         |
| PP pipe according to EN 1852-1: 2009 or DIN8077/8078                                                                                     |                           |                   |
| Maximum 160 mm diameter, wall thickness 6.2-9.1 mm                                                                                       | 10 mm                     | EI 30 U/C         |

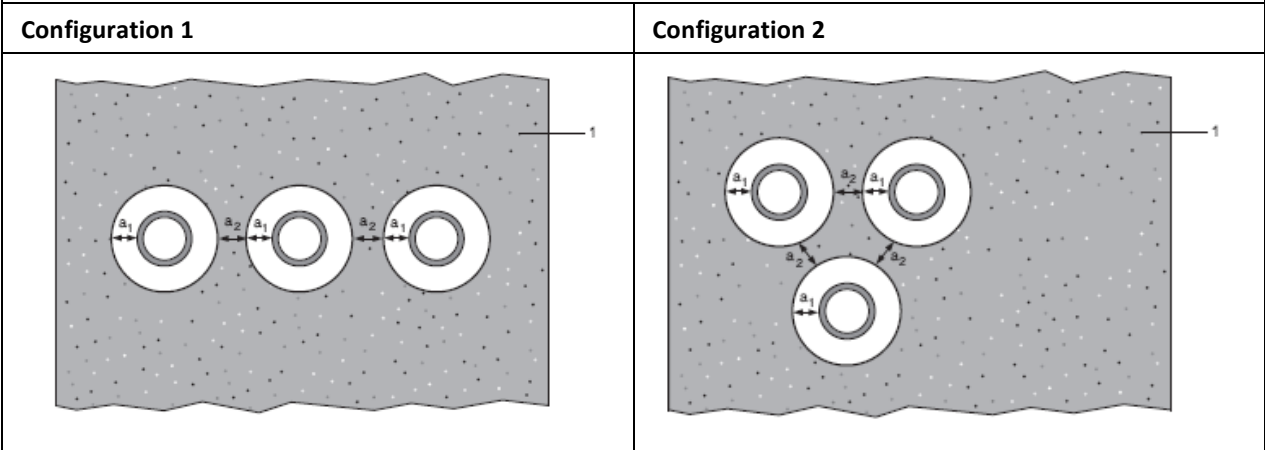
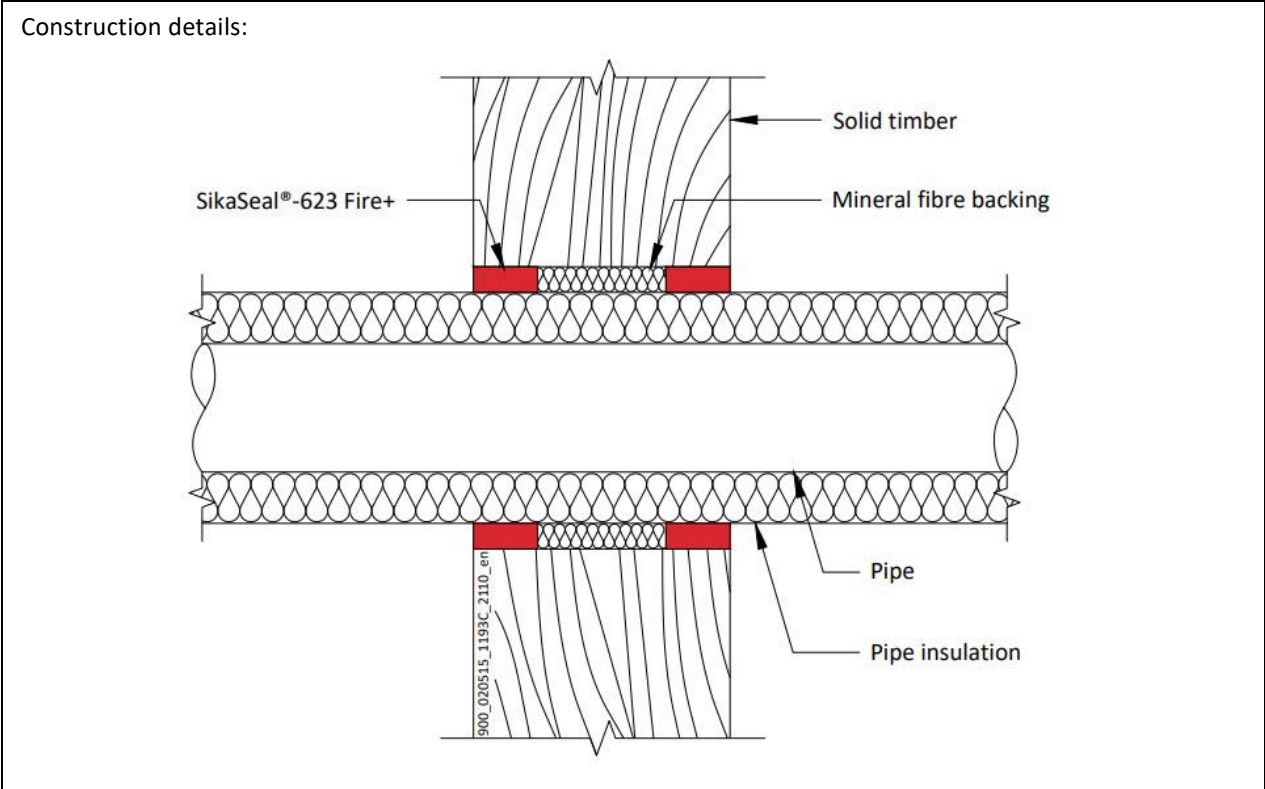
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A.3 Timber wall constructions with wall thickness of minimum 100 mm

A.3.1 Pipe penetration seals, in timber walls

**Penetration Seal:** Metallic pipes insulated with Elastomeric insulation minimum class D-s3,d0, Continuous Sustained (CS), sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the wall and backed with Stonewool (minimum 33kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm (a2).



**Key**  
1 Supporting construction  
a<sub>1</sub> Pipe / edge of seal separation (annular space)  
a<sub>2</sub> Separation between penetration seals

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### A.3.1.1

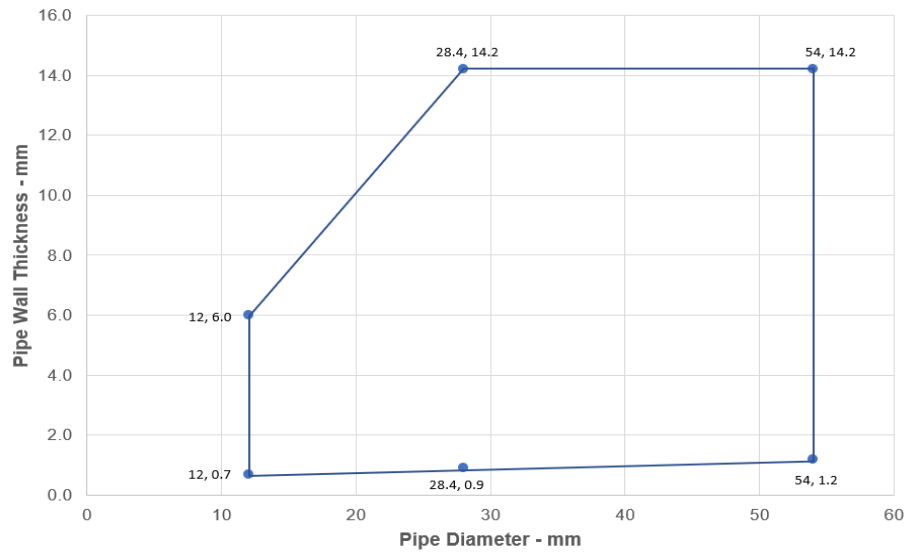
| Services                                                                         | Seal & backing material width (a1) | Permitted configuration for seal separation | Insulation CS                                           | Classification       |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|---------------------------------------------------------|----------------------|
| Copper, mild or stainless steel pipe                                             |                                    |                                             |                                                         |                      |
| Diameter 12 mm, wall thickness 0.7                                               | 10 mm                              | 1                                           | 13 mm Elastomeric insulation minimum class D-s3, d0     | EI 120 C/C           |
| Diameter 12-54 mm, wall thickness*                                               |                                    |                                             |                                                         | E 120 C/C, EI 90 C/C |
| Diameter 12-54 mm, wall thickness*                                               |                                    |                                             | 14-25 mm Elastomeric insulation minimum class D -s3, d0 | E 120 C/C, EI 30 C/C |
| Mild or stainless steel pipe, with Elastomeric insulation minimum class D-s3, d0 |                                    |                                             |                                                         |                      |
| Diameter 12-114 mm, wall thickness*                                              | 10 mm                              | 1                                           | 13 mm Elastomeric insulation minimum class D -s3, d0    | EI 90 C/C            |
| Diameter 12-114 mm, wall thickness*                                              |                                    |                                             | 14-25 mm Elastomeric insulation minimum class D-s3, d0  | E 90 C/C, EI 45 C/C  |
| Diameter 114 mm, wall thickness 1.5-14.2                                         |                                    |                                             | 13 mm Elastomeric insulation minimum class D-s3, d0     | EI 90 C/U            |
| Diameter 114 mm, wall thickness 1.5-14.2                                         |                                    |                                             | 13-25 mm Elastomeric insulation minimum class D-s3, d0  | E 90 C/U, EI 45 C/U  |
| Alupex pipe, with Elastomeric insulation minimum class D-s3, d0                  |                                    |                                             |                                                         |                      |
| Diameter 16 mm, wall thickness 2.25                                              | 10 mm                              | 1                                           | 13 mm Elastomeric insulation minimum class D-s3, d0     | EI 120 C/C           |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             |                                                         | E 120 C/C, EI 45 C/C |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             | 14-24 mm Elastomeric insulation minimum class D-s3, d0  | E 90 C/C, EI 45 C/C  |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             | 25 mm Elastomeric insulation minimum class D -s3, d0    | EI 90 C/C            |

See below graph for interpolation pipe sizes

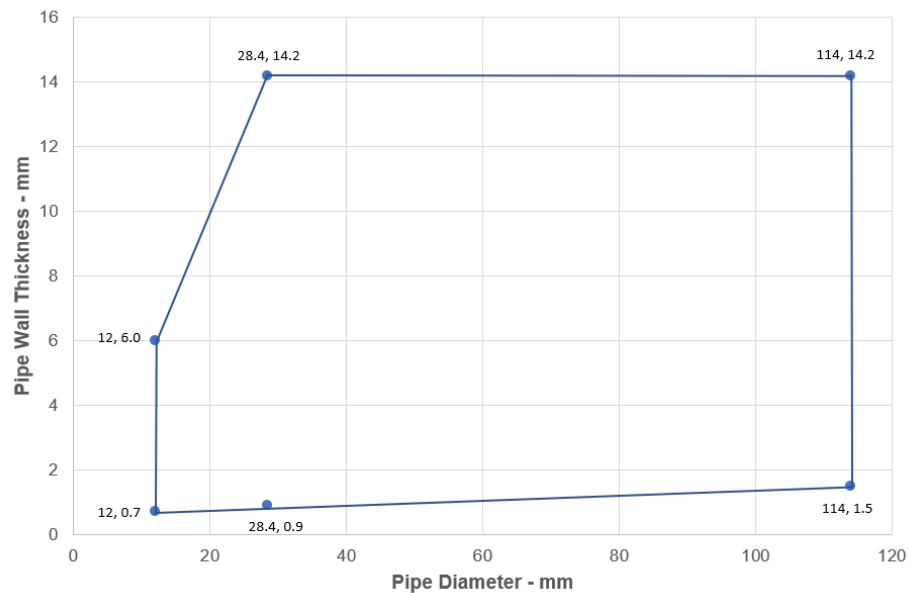
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### Copper or Steel Pipes with Elastomeric Insulation - C/C



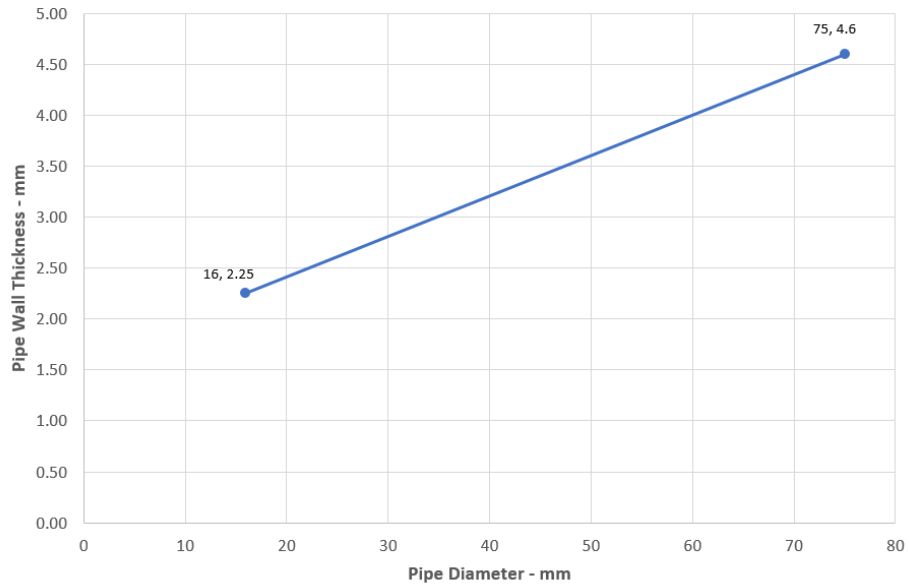
### Steel Pipes with Elastomeric Insulation - C/C



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### Alupex Pipes with Elastomeric Insulation - C/C



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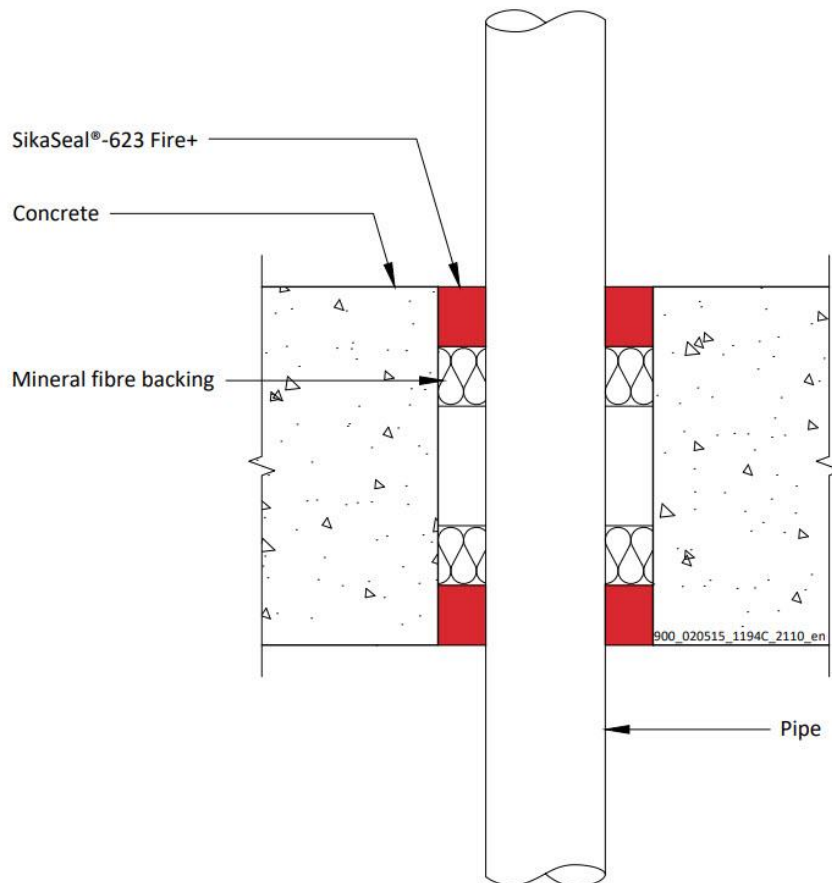
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## A.4 Rigid floor constructions with floor thickness of minimum 150 mm

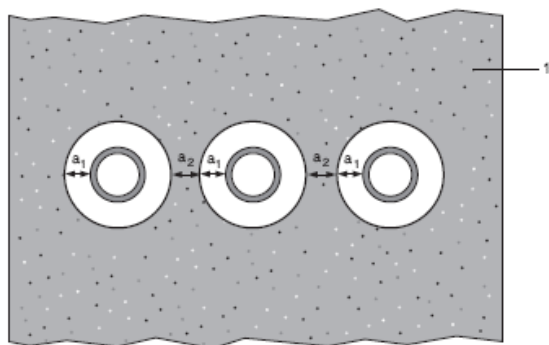
### A.4.1 Penetration seals, surface mounted in concrete floors

**Penetration Seal:** Combustible pipes sealed with SikaSeal-623 Fire+, to both sides of the floor backed with Stonewool (minimum 35kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm.

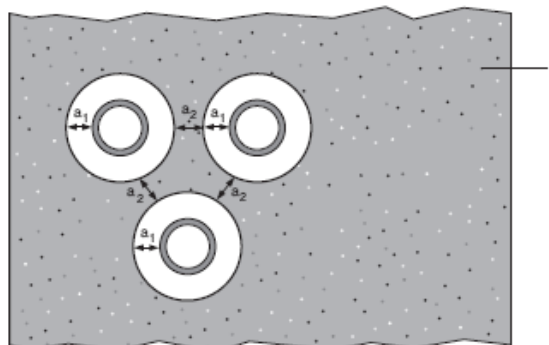
Construction details:



**Configuration 1**



**Configuration 2**



#### Key

1 Supporting construction

a<sub>1</sub> Pipe / edge of seal separation (annular space)

a<sub>2</sub> Separation between penetration seals

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#### A.4.1.1

| Services                                                                                                                                 | Seal & Backing width                       | Permitted configuration for seal separation | Classification                                 |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                                            |                                             |                                                |
| Diameter 40 mm, wall thickness 1.8 – 3.7 mm                                                                                              | 10-30 mm                                   | 1 & 2                                       | EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C |
| Diameter 40 mm, wall thickness 1.8 – 3.7 mm to diameter 110 mm, wall thickness 2.7-6.6 mm                                                |                                            | 1 & 2                                       | EI 90 C/U, EI 90 C/C                           |
| PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1 |                                            |                                             |                                                |
| Diameter 40 mm, wall thickness 2.4-3.7 mm                                                                                                | 10-30 mm                                   | 1 & 2                                       | EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C     |
|                                                                                                                                          |                                            |                                             | EI 240 U/C, EI 240 C/C                         |
| Diameter 40, wall thickness 2.4-3.7 mm to diameter 110 mm, wall thickness 4.3-10 mm                                                      |                                            | 1 & 2                                       | EI 60 U/C, EI 60 C/C                           |
| Diameter 110 mm, wall thickness 4.3-10 mm                                                                                                |                                            | 1 & 2                                       | EI 90 U/C, EI 90 C/C                           |
| Diameter 110 mm, wall thickness 10 mm                                                                                                    | EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C |                                             |                                                |

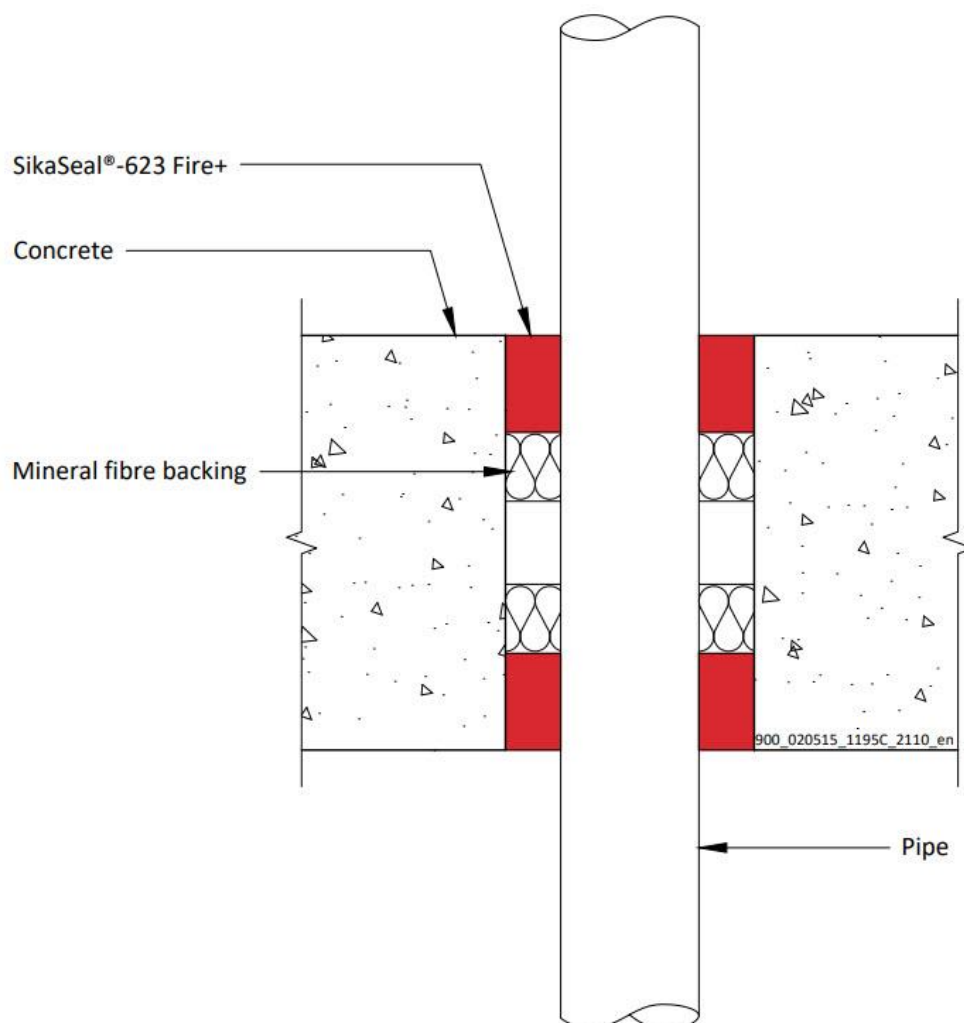
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#### A.4.2 Penetration seals, surface mounted in concrete floors

**Penetration Seal:** Combustible pipes sealed with SikaSeal-623 Fire+, minimum 35 mm deep to both sides of the floor backed with Mineral Bio Wool (128kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm.

Construction details:



##### A.4.2.1

| Services                                                                                                                                 | Seal & Backing width (a1) | Classification   |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1                                                 |                           |                  |
| Maximum 160 mm diameter, wall thickness 4.0-9.5mm                                                                                        | 10-30 mm                  | <b>EI 60 U/C</b> |
| 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 160 mm diameter, wall thickness 4.9-14.6 mm                                                                                      | 10-30 mm                  | <b>EI 30 U/C</b> |
| Maximum 160 mm diameter, wall thickness 14.6 mm                                                                                          | 10-30 mm                  | <b>EI 60 U/C</b> |

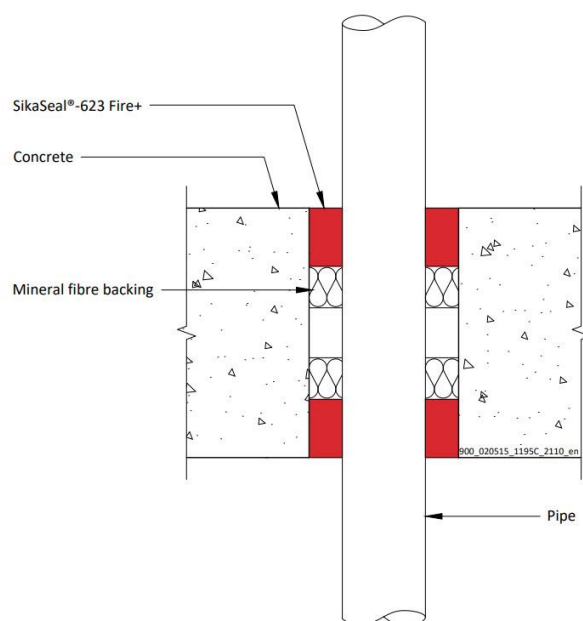
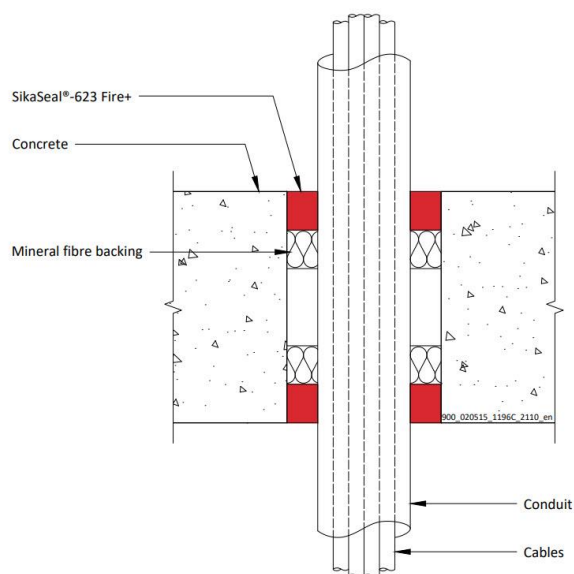
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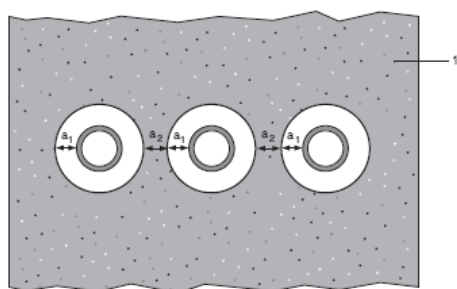
### A.4.3 Penetration seals, surfaces mounted in concrete floors

**Penetration Seal:** Combustible pipes sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the floor backed with Rock mineral wool (minimum 33kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 30 mm (a<sub>2</sub>).

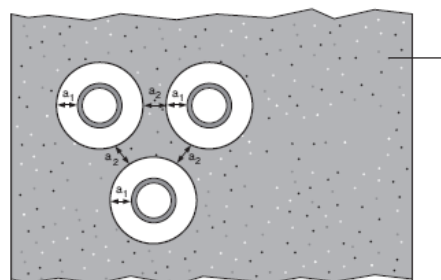
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

1 Supporting construction

a<sub>1</sub> Pipe / edge of seal separation (annular space)

a<sub>2</sub> Separation between penetration seals

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**A.4.3.1**

| Services                                                                                                                                         | Seal width<br>(a1) | Permitted<br>configuration for<br>seal separation | Classification |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|----------------|
| PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1, PVC-C according to EN 1566-1 or PP pipe according to EN 1852-1: 2009 or DIN8077/8078 |                    |                                                   |                |
| Maximum diameter 110 mm, wall thickness 1.8-6.6 mm for PVC pipes, fully or partially filled conduits with cables up to 20 mm diameter            | 10-30 mm           | 1 & 2                                             | EI 90 U/C      |
| Maximum diameter 110 mm, wall thickness 2.7 mm for PP pipes, fully or partially filled conduits with cables up to 20 mm diameter                 | 10-30 mm           | 1 & 2                                             | EI 90 U/C      |
| Maximum diameter 110 mm, wall thickness 1.8-6.3 mm for PP pipes, fully or partially filled conduits with cables up to 20 mm diameter             | 10-30 mm           | 1 & 2                                             | EI 30 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 110 mm, wall thickness 2.4-10 mm, fully or partially filled conduits with cables up to 20 mm diameter                           | 10-30 mm           | 1 & 2                                             | EI 60 U/C      |
| PP pipe according to EN 1852-1: 2009 or DIN8077/8078                                                                                             |                    |                                                   |                |
| Maximum 40 mm diameter, wall thickness 1.8 mm                                                                                                    | 10-30 mm           | 1 & 2                                             | EI 120 C/C     |
| Maximum 110 mm diameter, wall thickness 1.8-6.3 mm                                                                                               | 10-30 mm           | 1 & 2                                             | EI 30 U/C      |

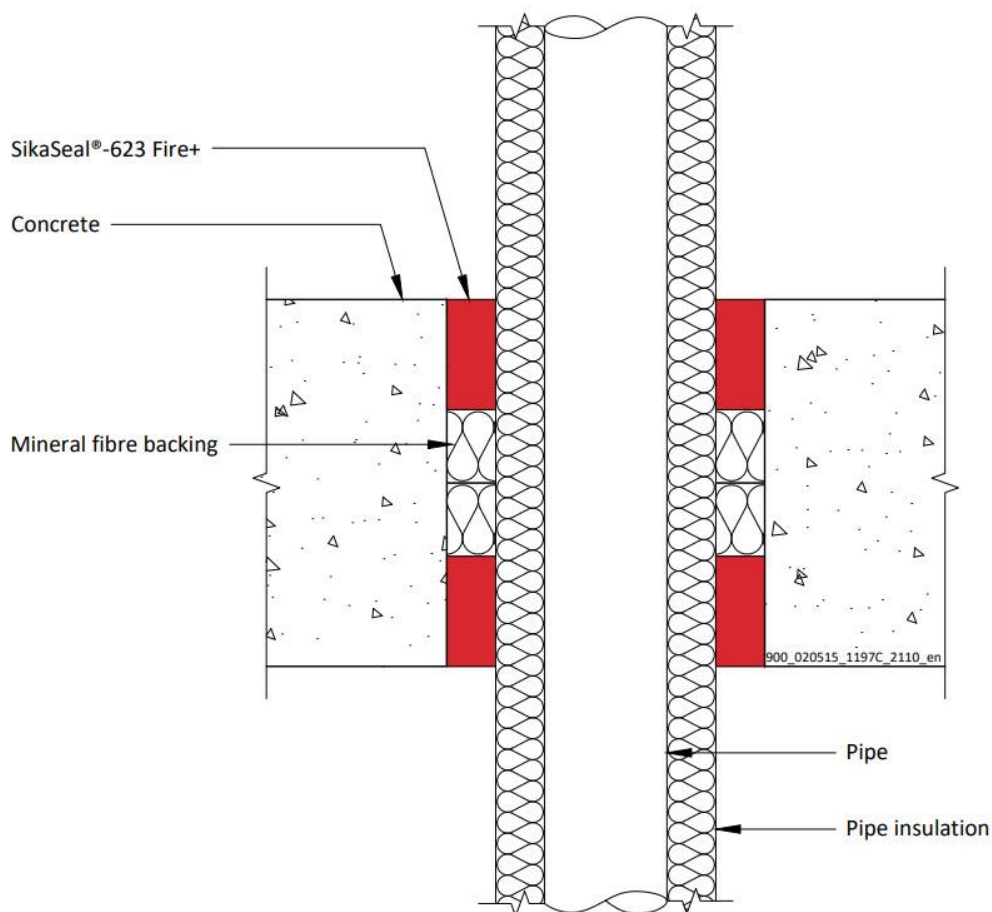
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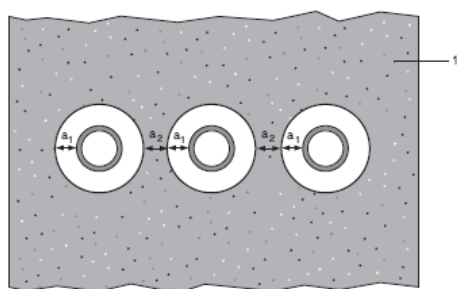
#### A.4.4 Penetration seals, surface mounted in concrete floors

**Penetration Seal:** Metallic pipes insulated with Elastomeric insulation minimum class B-s3, d0, Continuous Sustained (CS), sealed with SikaSeal-623 Fire+, minimum 45 mm deep to both sides of the floor and backed with Mineral Bio Wool (128kg/m<sup>3</sup> density), minimum 30 mm deep. Minimum separation between penetration seals of 30 mm mm (a2).

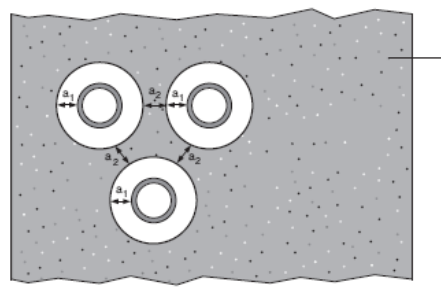
Construction details:



**Configuration 1**



**Configuration 2**



**Key**

1 Supporting construction

a1 Pipe / edge of seal separation (annular space)

a2 Separation between penetration seals

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**A.4.4.1**

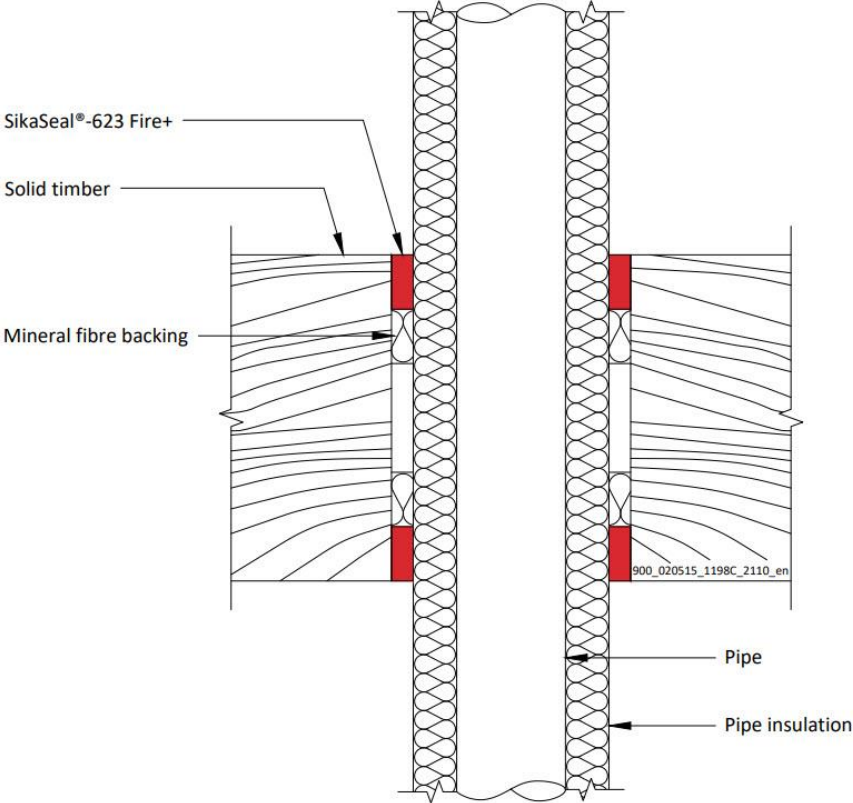
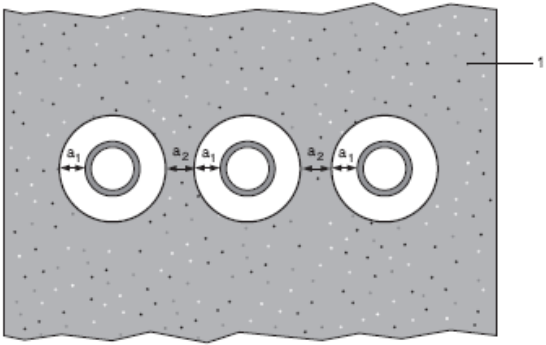
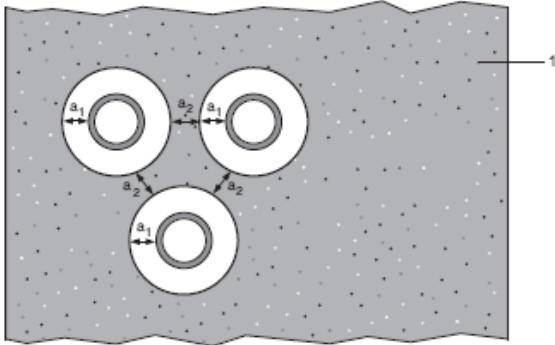
| Services                                                                         | Seal & backing material width (a1) | Permitted configuration for seal separation | Insulation CS                                          | Classification    |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------|
| Mild or stainless steel pipe, with Elastomeric insulation minimum class B-s3, d0 |                                    |                                             |                                                        |                   |
| Maximum 324 mm diameter, wall thickness 1.0-14.2 mm                              | 10-30 mm                           | 1 & 2                                       | 25-50 mm Elastomeric insulation minimum class B-s3, d0 | <b>EI 60 C/U</b>  |
| Maximum 324 mm diameter, wall thickness 6.35-14.2 mm                             | 10-30 mm                           | 1 & 2                                       | 50 mm Elastomeric insulation minimum class B-s3, d0    | <b>EI 120 C/U</b> |

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

**A.5.1 Pipe penetration seals, in timber floors**

|                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <p><b>Penetration Seal:</b> Metallic pipes insulated with Elastomeric insulation minimum class D-s3,d0, Continuous Sustained (CS), sealed with SikaSeal-623 Fire+, minimum 25 mm deep to both sides of the floor and backed with Stonewool (minimum 33kg/m<sup>3</sup> density), minimum 25 mm deep. Minimum separation between penetration seals of 0 mm (a2).</p> |                                                                                                                    |
| <p>Construction details:</p>                                                                                                                                                                                                                                                     |                                                                                                                    |
| <p><b>Configuration 1</b></p>                                                                                                                                                                                                                                                    | <p><b>Configuration 2</b></p>  |
| <p><b>Key</b></p> <p>1 Supporting construction</p> <p>a1 Pipe / edge of seal separation (annular space)</p> <p>a2 Separation between penetration seals</p>                                                                                                                                                                                                          |                                                                                                                    |

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### A.5.1.1

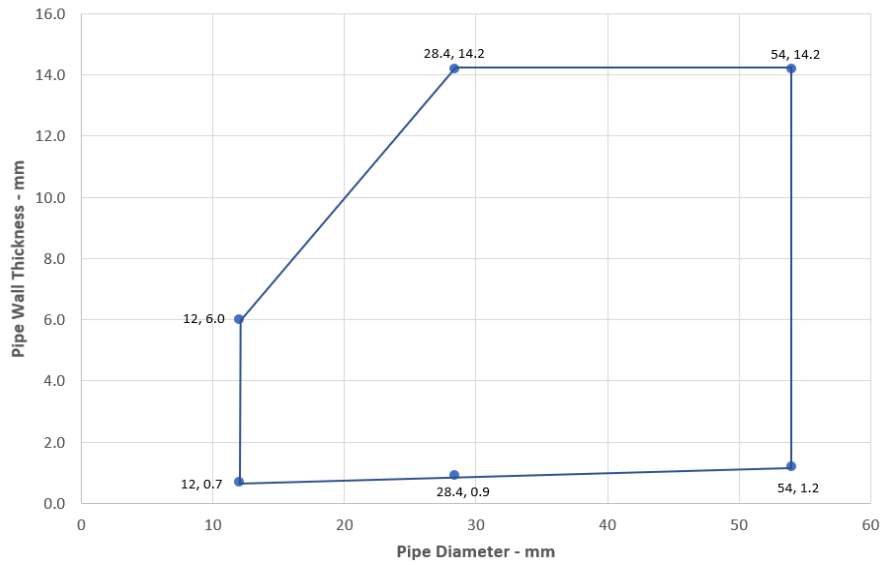
| Services                                                                         | Seal & backing material width (a1) | Permitted configuration for seal separation | Insulation CS                                          | Classification       |
|----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|--------------------------------------------------------|----------------------|
| Copper, mild or stainless steel pipe                                             |                                    |                                             |                                                        |                      |
| Diameter 12 mm, wall thickness 0.7                                               | 10 mm                              | 1                                           | 9 mm Elastomeric insulation minimum class D-s3, d0     | EI 120 C/C           |
| Diameter 12-54 mm, wall thickness*                                               |                                    |                                             |                                                        | E 120 C/C, EI 45 C/C |
| Diameter 12-54 mm, wall thickness*                                               |                                    |                                             | 10-25 mm Elastomeric insulation minimum class D-s3, d0 | E 120 C/C, EI 30 C/C |
| Mild or stainless steel pipe, with Elastomeric insulation minimum class D-s3, d0 |                                    |                                             |                                                        |                      |
| Diameter 12-114 mm, wall thickness*                                              | 10 mm                              | 1                                           | 9-24 mm Elastomeric insulation minimum class D-s3, d0  | E 120 C/C, EI 45 C/C |
| Diameter 12-114 mm, wall thickness*                                              |                                    |                                             | 25 mm Elastomeric insulation minimum class D-s3, d0    | E 120 C/C, EI 60 C/C |
| Diameter 114 mm, wall thickness 1.5-14.2                                         |                                    |                                             | 9-25 mm Elastomeric insulation minimum class D-s3, d0  | E 120 C/U, EI 45 C/U |
| Diameter 114 mm, wall thickness 1.5-14.2                                         |                                    |                                             | 25 mm Elastomeric insulation minimum class D-s3, d0    | E 120 C/U, EI 60 C/U |
| Alupex pipe, with Elastomeric insulation minimum class D-s3, d0                  |                                    |                                             |                                                        |                      |
| Diameter 16 mm, wall thickness 2.25                                              | 10 mm                              | 1                                           | 9 mm Elastomeric insulation minimum class D-s3, d0     | EI 120 C/C           |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             | 9-24 mm Elastomeric insulation minimum class D-s3, d0  | E 120 C/C, EI 60 C/C |
| Diameter 16-75 mm, wall thickness*                                               |                                    |                                             | 25 mm Elastomeric insulation minimum class D-s3, d0    | E 120 C/C, EI 90 C/C |

\*See below graph for interpolation pipe sizes

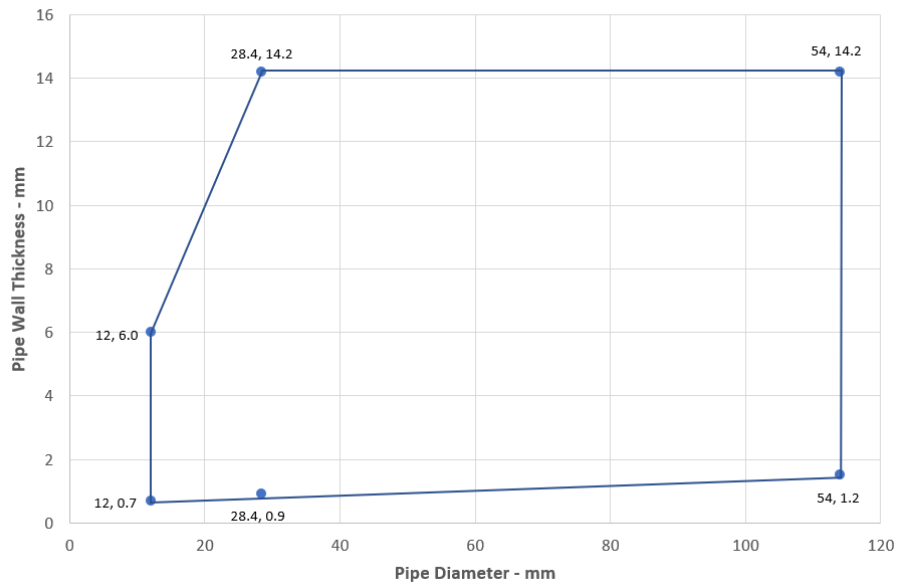
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### Copper or Steel Pipes with Elastomeric Insulation - C/C



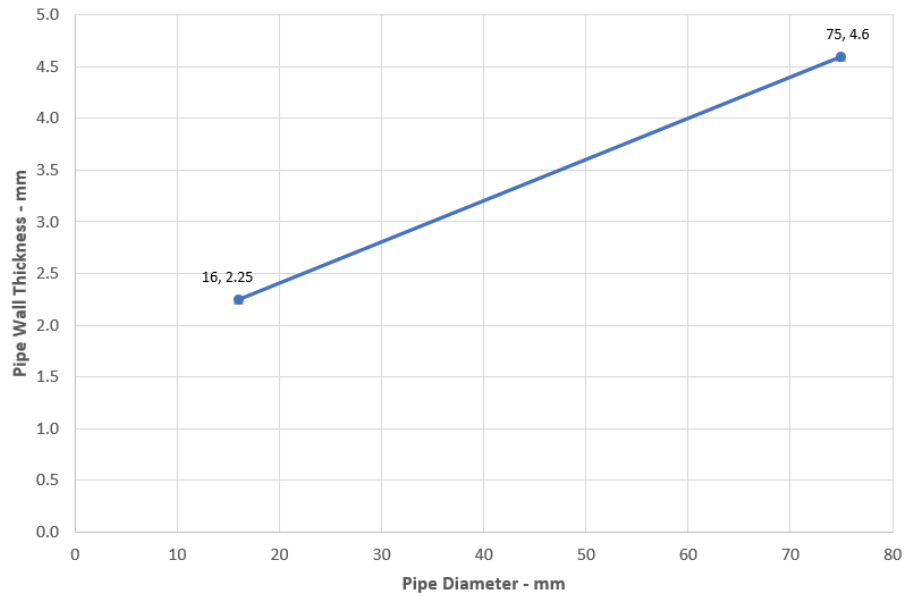
### Steel Pipes with Elastomeric Insulation - C/C



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### Alupex Pipes with Elastomeric Insulation - C/C

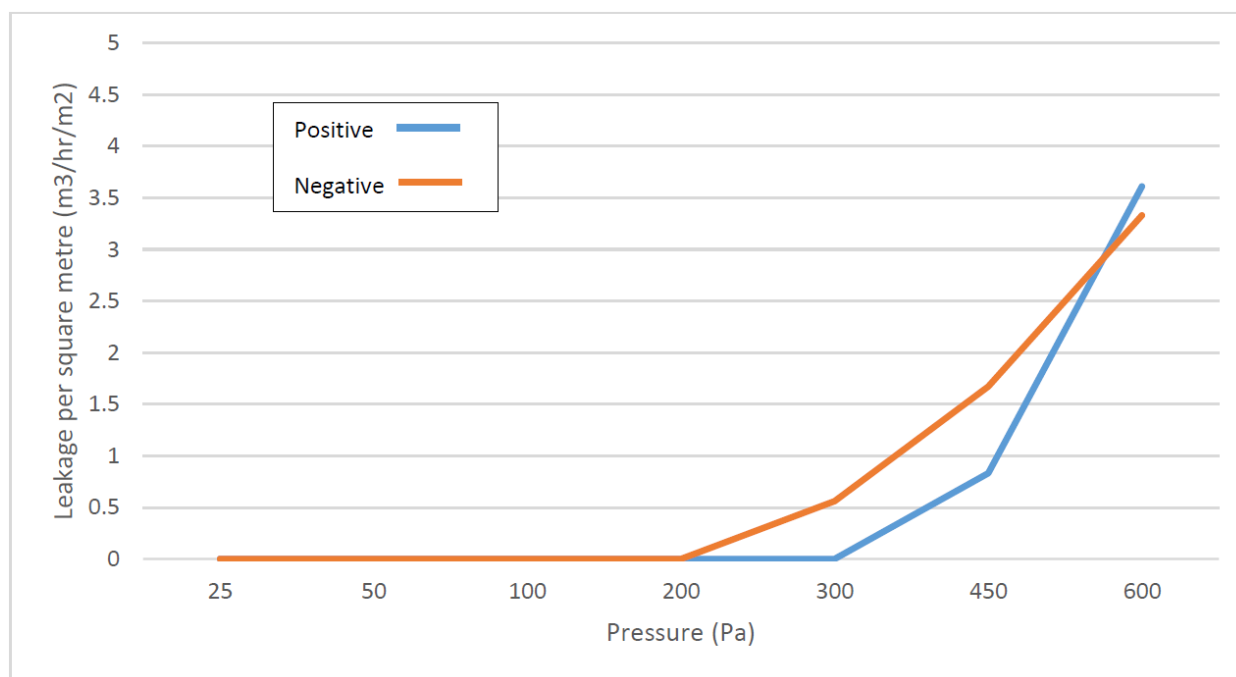


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## ANNEX B – AIR PERMEABILITY – SIKASEAL-623 FIRE+

| Product tested                          | 25mm deep x 30mm wide SikaSeal-623 Fire+ |                             |                                             |
|-----------------------------------------|------------------------------------------|-----------------------------|---------------------------------------------|
| Summary of testing procedure            |                                          |                             | Result                                      |
|                                         | Pressure (Pa)                            | Leakage (m <sup>3</sup> /h) | Leakage (m <sup>3</sup> /m <sup>2</sup> /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                                      | 0.12                        | 3.33                                        |
| 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                                      | 0.03                        | 0.83                                        |
|                                         | 600                                      | 0.13                        | 3.61                                        |



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

<http://dop.sika.com>

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|                                                                                         |
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| <br>21 |
| Sika Services AG, Zurich, Switzerland                                                   |
| 54864880                                                                                |
| For details see accompanying documents                                                  |
| EAD 350454-00-1104:2017                                                                 |
| Notified Body 2531                                                                      |
| Fire Stopping and Sealing Product: Penetration Seals                                    |

<http://dop.sika.com>

## EKOLOGI, HÄLSA OCH SÄKERHETSINFORMATION (REACH)

För information och råd om säker hantering, lagring och avfallshantering av kemiska produkter, ska användarna konsultera det senaste säkerhetsdatabladet (SDB) innehållande fysiska, ekologiska, toxikologiska och annan säkerhetsrelaterad information.

## LAGSTIFTNING

Informationen och i synnerhet rekommendationerna avseende applikation och slutanvändning av Sikaprodukterna lämnas i god tro baserat på Sikas nuvarande kunskap och erfarenhet av produkterna när dessa lagras, hanteras och används under normala förhållanden på ett korrekt sätt. I praktiken kan differenserna i material, underlag och den aktuella platsen variera på sådant sätt att ingen garanti vad gäller användbarhet eller lämplighet för ett visst ändamål kan lämnas. Med hänsyn härtill kan något rättsligt ansvar av vad slag det må vara varken härledas från denna information eller från någon skriftlig rekommendation eller i övrigt beträffande produkten lämnade råd. Hänsyn måste vid användningen även tas till tredje mans ägande och andra eventuella rättigheter. Alla order accepteras under förutsättningen av att Sikas aktuella försäljnings- och leveransbestämmelser är gällande. Användaren skall alltid använda sig av den senaste utgåvan av den aktuella produktens tekniska datablad, vilket kan erhållas vid förfrågan eller på hemsidan [www.sika.se](http://www.sika.se).

Sika Sverige AB  
Domnarvsgatan 15  
163 53 Spånga  
Sverige  
[www.sika.se](http://www.sika.se)

### Declaration of Performance

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2025.01, ver. 1  
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