

Schémas d'applications pour le collier en rouleau CFS-C EL



Applications pour industrie en dalle rigide épaisseur 150 mm

- Tube plastique PE droit IND-RF-PP-0052/53/54/55
- Tube plastique PE incliné IND-RF-PP-0113
- Tube plastique PE (jonction de tube ou tube au mur/
en coin) IND-RF-PP-0115/116/117/118
- Tube plastique PE (sans distance avec autres
systèmes, conlit ou CFS-B) IND-RF-PP-0122/124/125

- Tube plastique ABS et SAN+PVC droit IND-RF-PP-0132/133/134
- Tube plastique ABS et SAN+PVC incliné IND-RF-PP-0137
- Tube plastique ABS et SAN+PVC (jonction de tube
ou tube au mur/en coin) IND-RF-PP-0138/139/140/141/142
- Tube plastique ABS et SAN+PVC (sans distance
avec autres systèmes, conlit ou CFS-B) IND-RF-PP-0147/148/149

*) Tous les schémas sont également disponibles sur demande en format DWG pour faciliter l'insertion sur des plans.



CONTENTS

Straight plastic pipe in a floor

ID

IND-RF-PP-0052

FIRESTOP COLLAR ENDLESS

0052_01

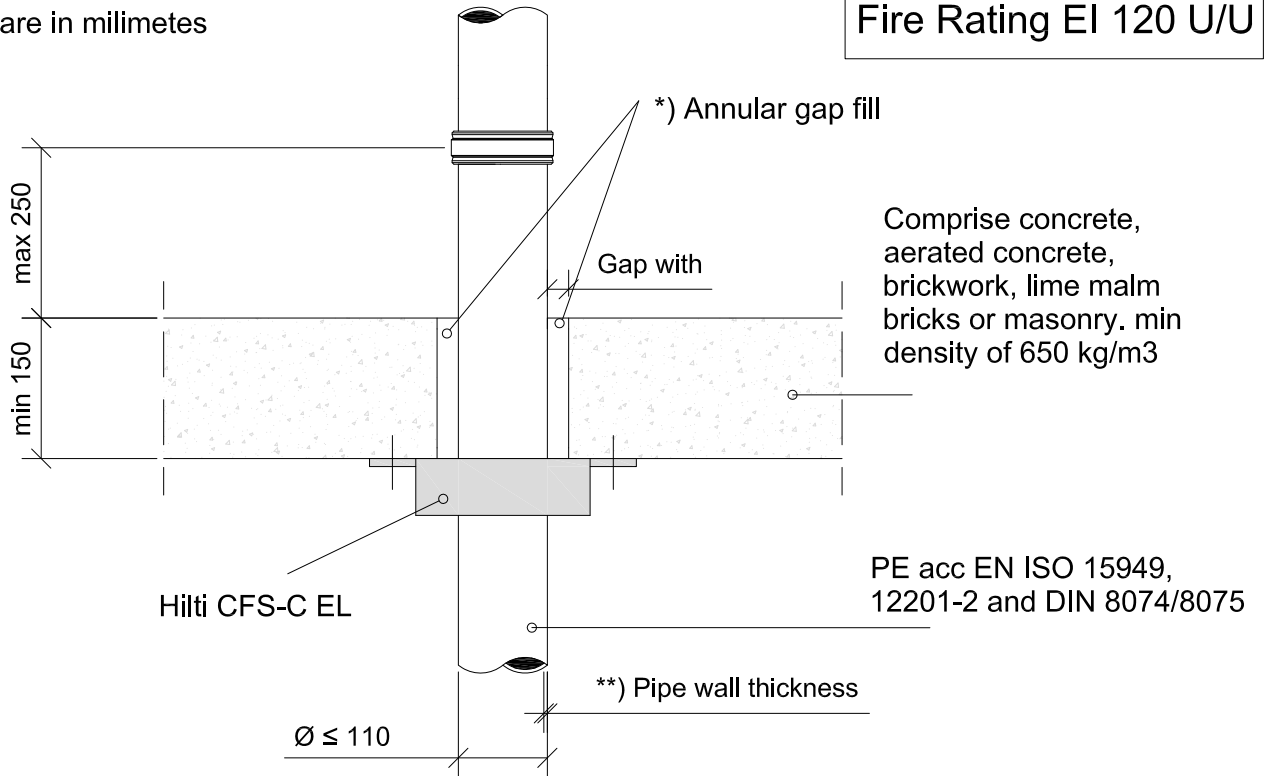
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U

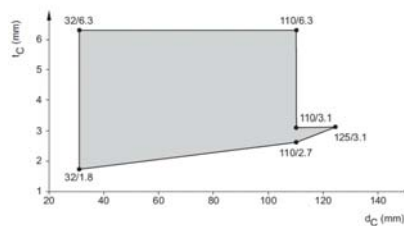


*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Straight plastic pipe in a floor

ID

IND-RF-PP-0053

FIRESTOP COLLAR ENDLESS

0053_01

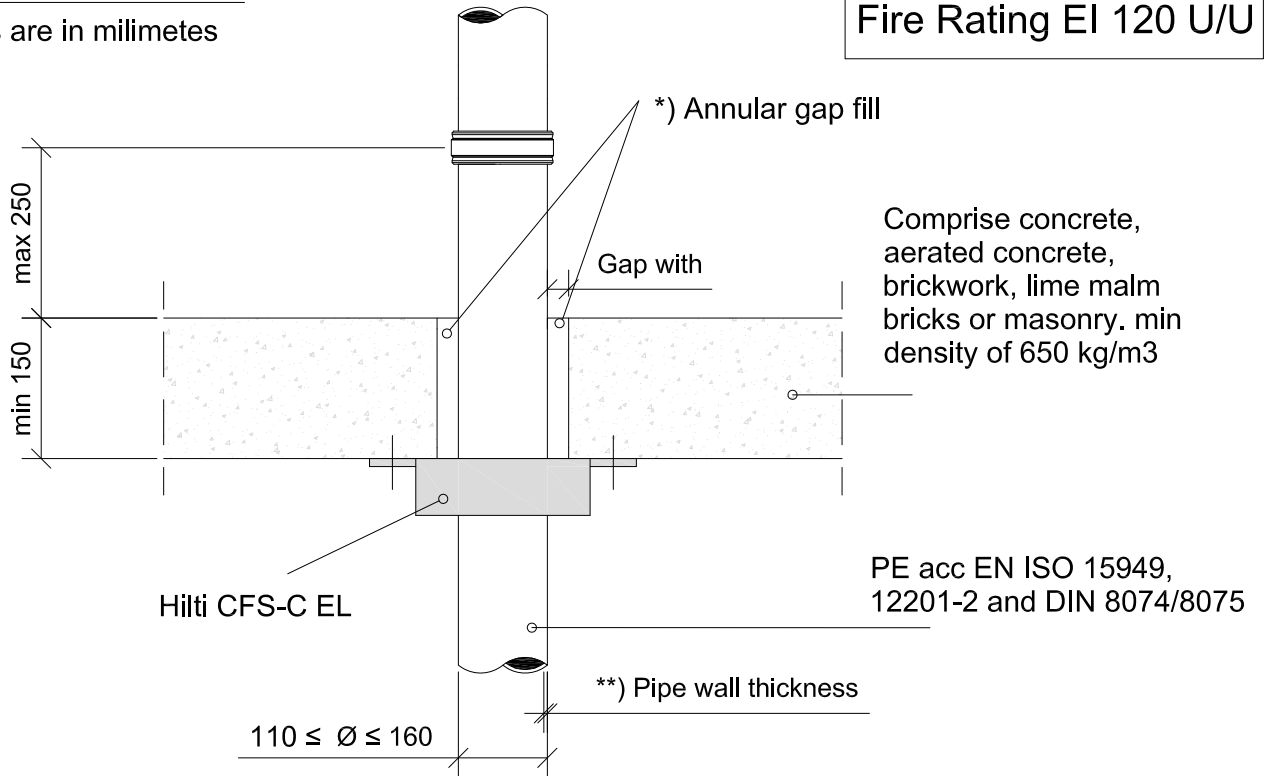
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U

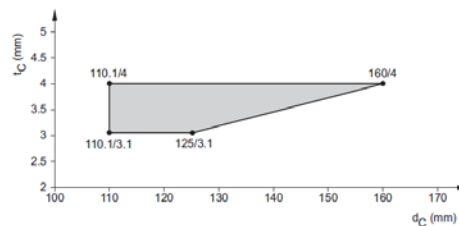


*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Straight plastic pipe in a floor

ID

IND-RF-PP-0054

FIRESTOP COLLAR ENDLESS

0054_01

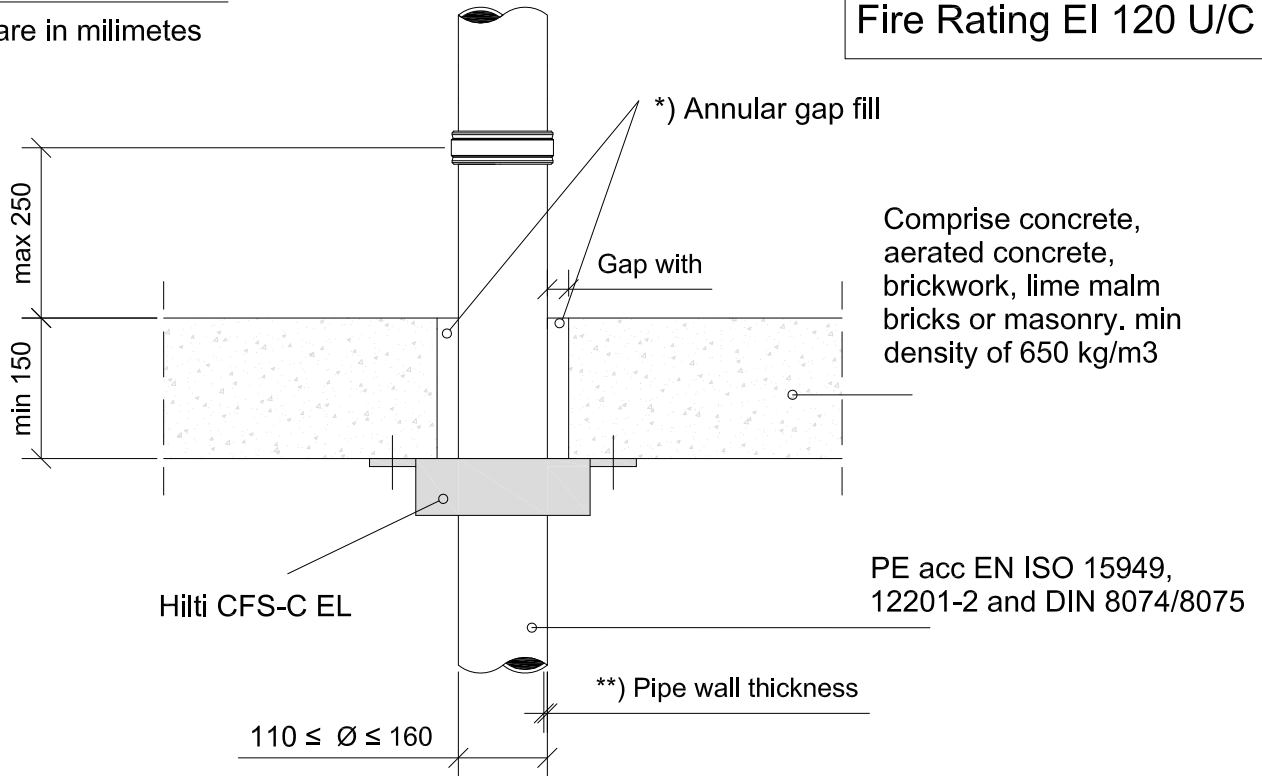
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C

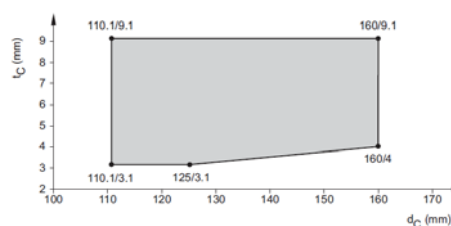


*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Straight plastic pipe in a floor

ID

IND-RF-PP-0055

FIRESTOP COLLAR ENDLESS

0055_01

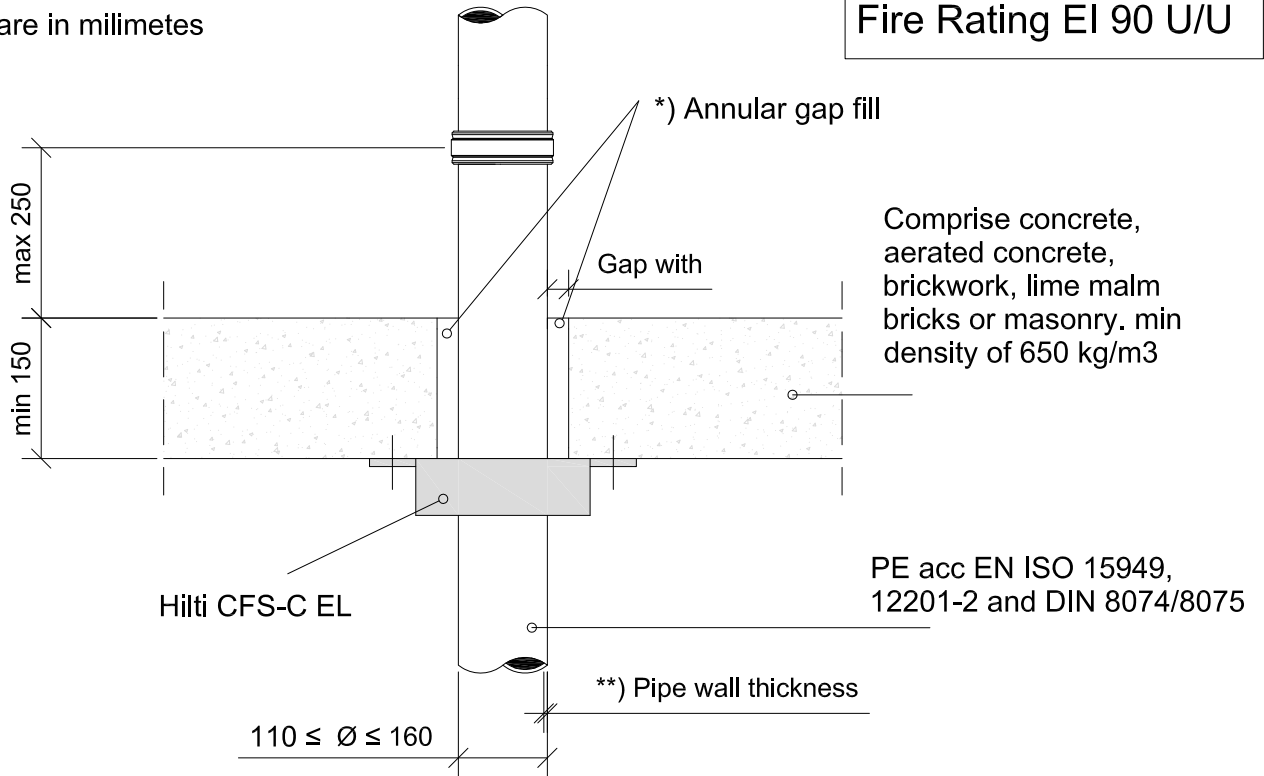
REV

00

No scale

All units are in milimetres

Fire Rating EI 90 U/U

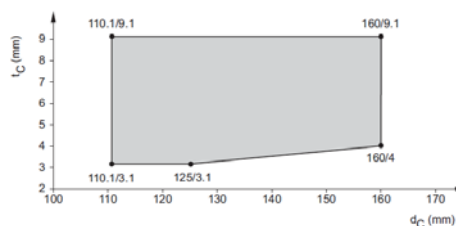


*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**). The pipe wall thickness approved can be found in this graphic





CONTENTS

Inclined plastic pipe in a floor

ID

IND-RF-PP-0113

FIRESTOP COLLAR ENDLESS

0113_01

REV

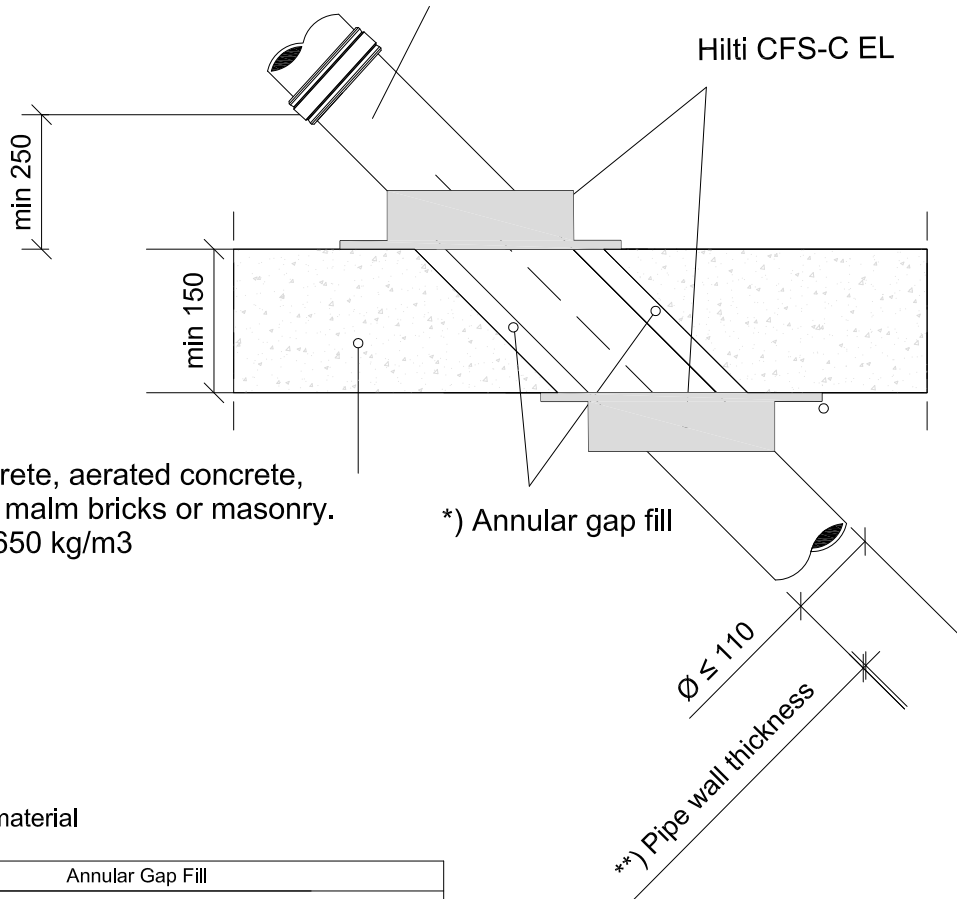
00

No scale

All units are in millimetres

PE acc EN ISO 15949,
12201-2 and DIN 8074/8075

Fire Rating EI 120 U/U



Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³

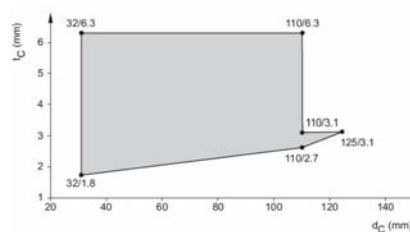
*) Annular gap fill

*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Plastic pipe in a rigid floor

ID

IND-RF-PP-0115

FIRESTOP COLLAR ENDLESS

0115_01

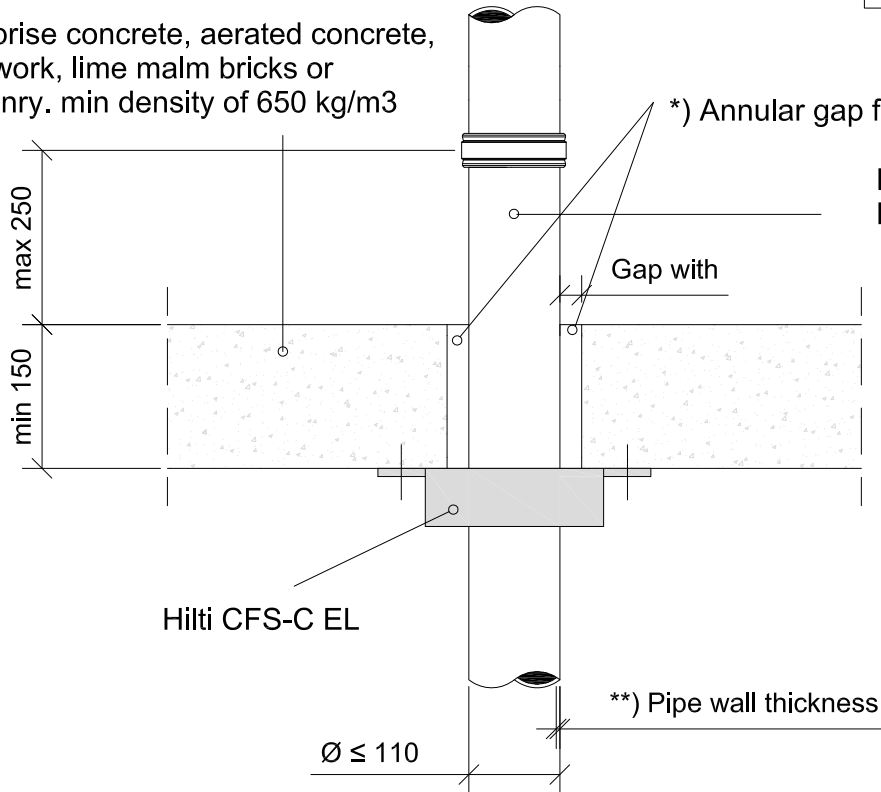
REV
00

No scale

All units are in millimetres

Fire Rating EI 120 U/U

Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³



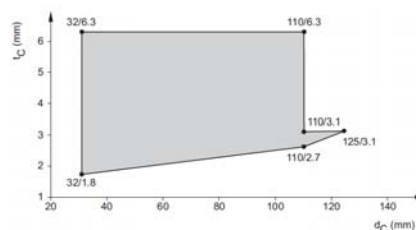
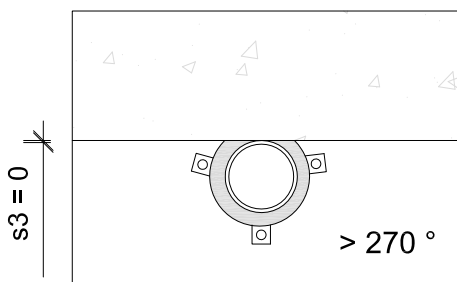
PP acc EN 1451-1 and
DIN 8077/78

*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Plastic pipe junction in floors
(Manifold)

ID

IND-RF-PP-0116

FIRESTOP COLLAR ENDLESS

0116_01

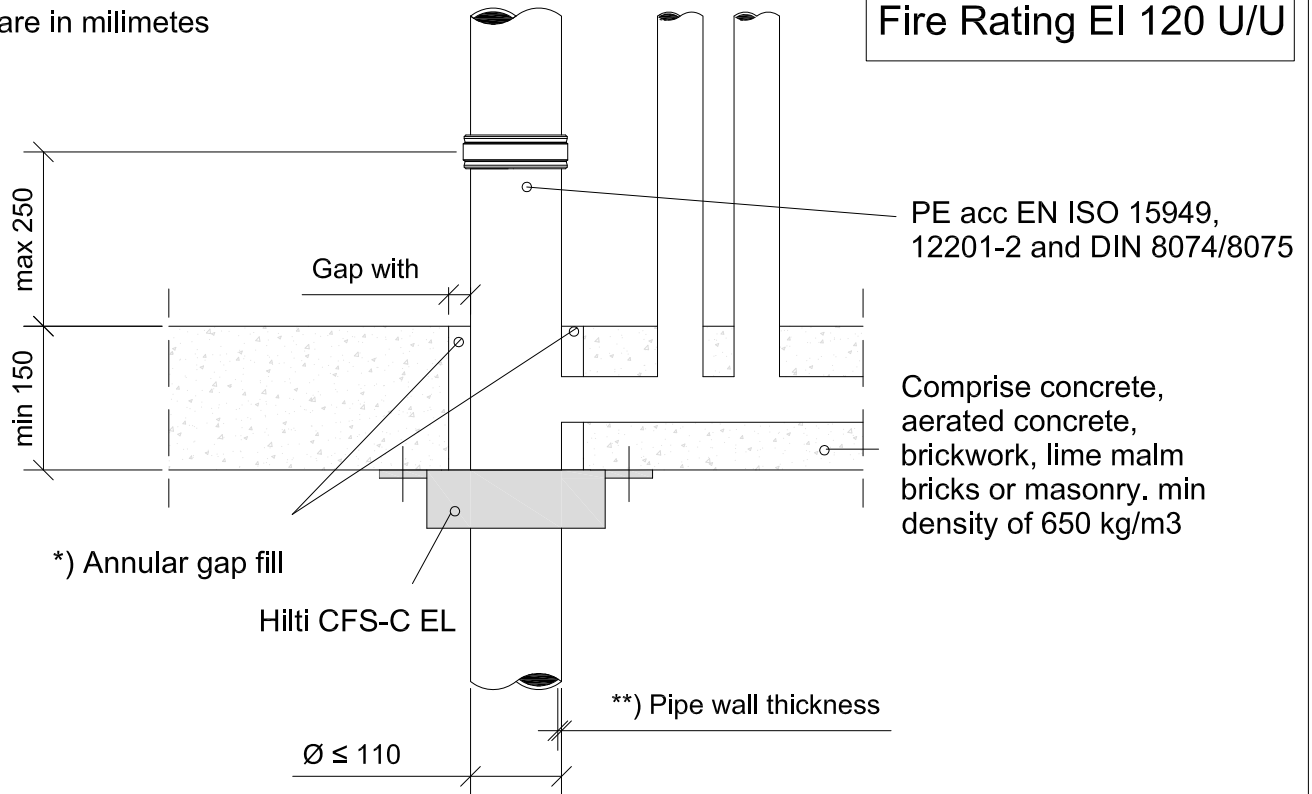
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U



*) Annular gap fill

Hilti CFS-C EL

***) Pipe wall thickness

$\varnothing \le 110$

*) Annular gap fill material

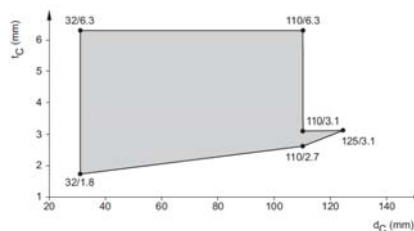
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

DESCRIPTION

Inside the floor there are one or more pipe junctions/manifolds into the central waste water pipe, where horizontal running minor pipes flow to. Those minor pipes have a U/C end configuration and can be installed in line on an unlimited amount. The CFS-C EL shall be installed only on the bottom part of the central waste water pipe.

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Plastic pipe junction in floors
(Manifold)

ID

IND-RF-PP-0117

FIRESTOP COLLAR ENDLESS

0117_01

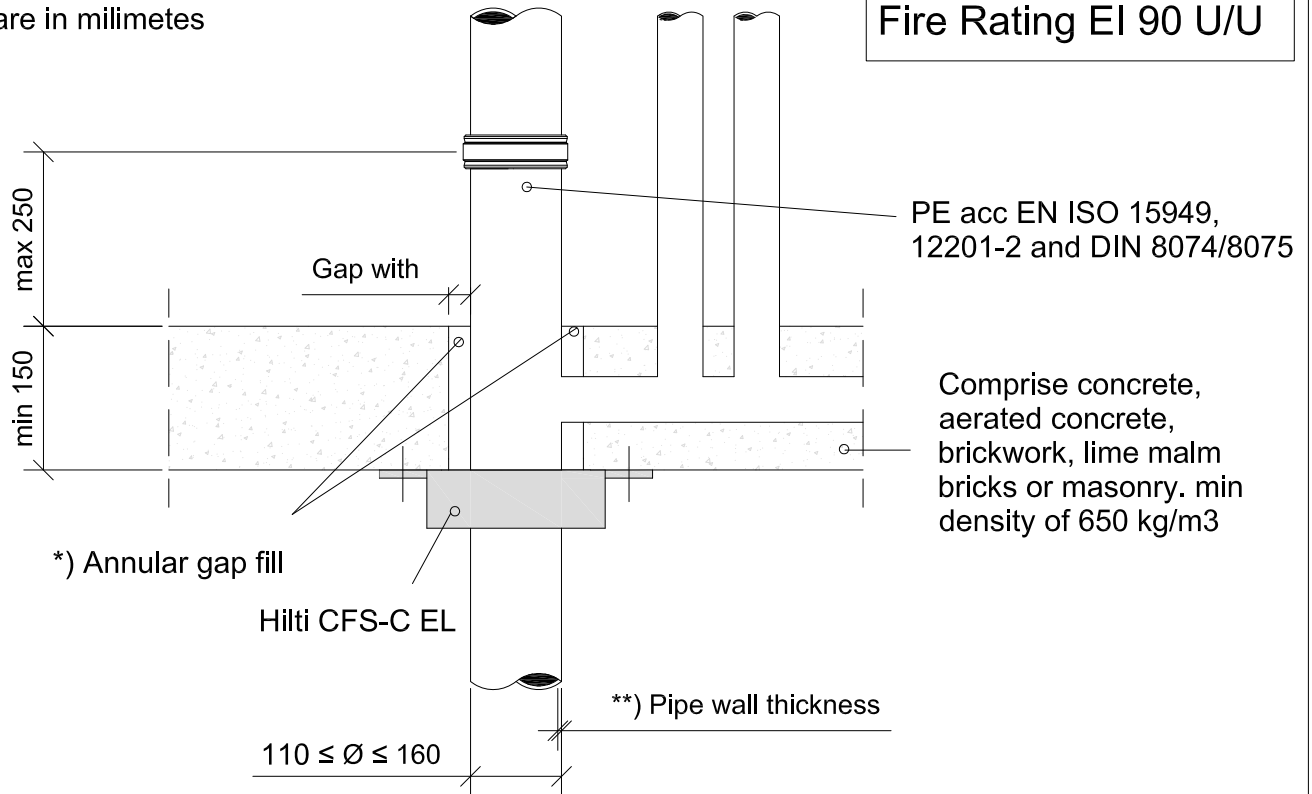
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 U/U



*) Annular gap fill material

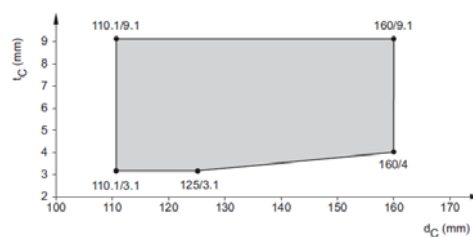
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

DESCRIPTION

Inside the floor there are one or more pipe junctions/manifolds into the central waste water pipe, where horizontal running minor pipes flow to. Those minor pipes have a U/C end configuration and can be installed in line on an unlimited amount. The CFS-C EL shall be installed only on the bottom part of the central waste water pipe.

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Plastic pipe junction in floors
(Manifold)

ID

IND-RF-PP-0118

FIRESTOP COLLAR ENDLESS

0118_01

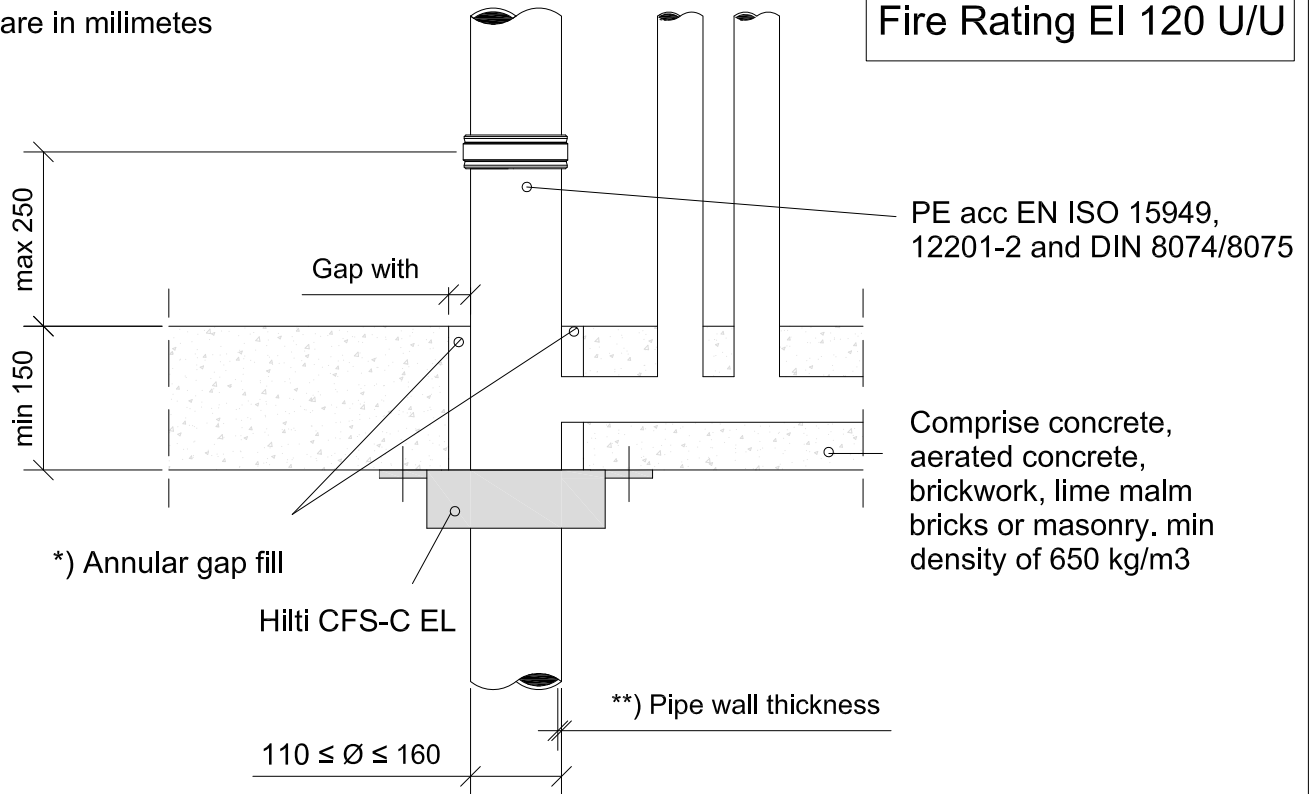
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U



*) Annular gap fill

Hilti CFS-C EL

**) Pipe wall thickness

$110 \leq \varnothing \leq 160$

*) Annular gap fill material

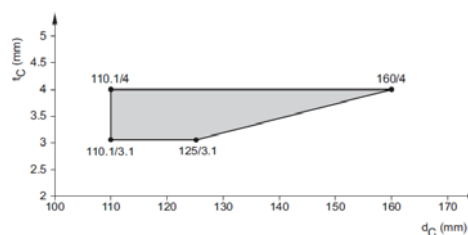
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

DESCRIPTION

Inside the floor there are one or more pipe junctions/manifolds into the central waste water pipe, where horizontal running minor pipes flow to. Those minor pipes have a U/C end configuration and can be installed in line on an unlimited amount. The CFS-C EL shall be installed only on the bottom part of the central waste water pipe.

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Zero distance to other system,
Conlit or CFS-B

ID

IND-RF-PP-0122

FIRESTOP COLLAR ENDLESS

0122_01

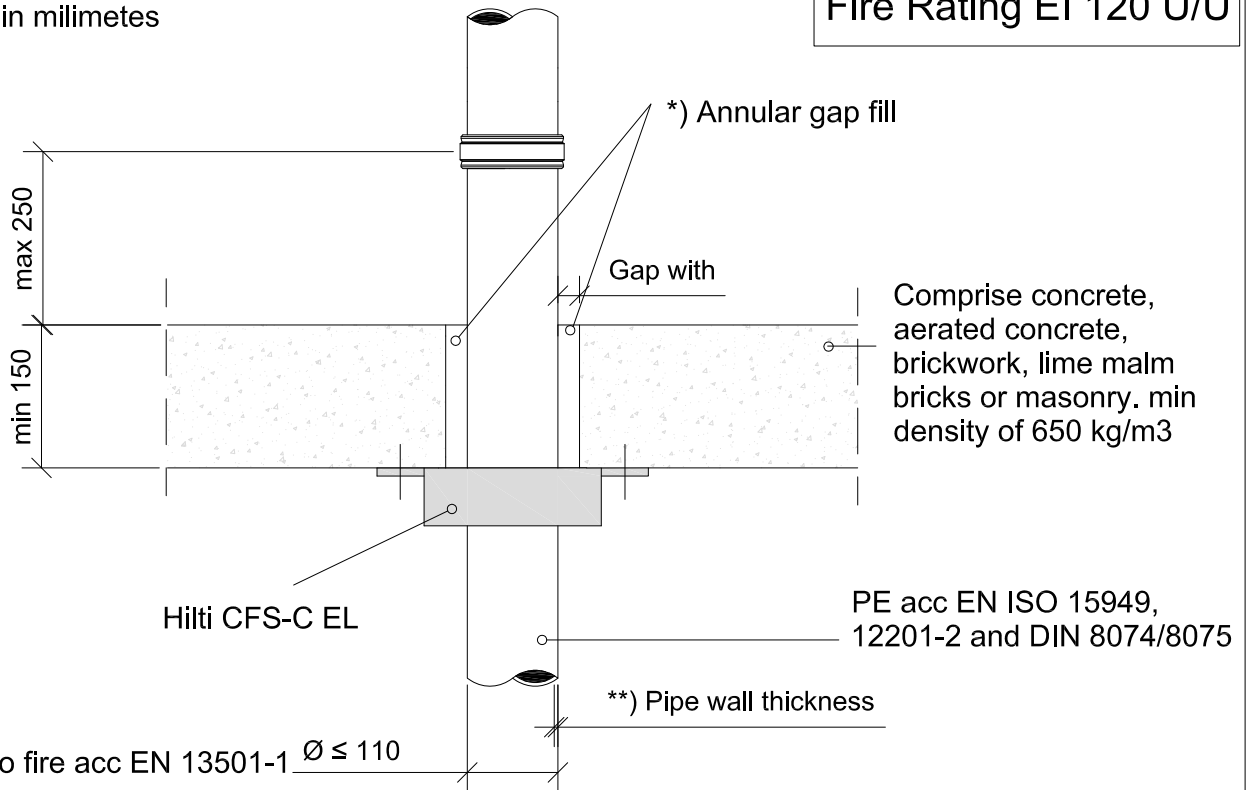
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U



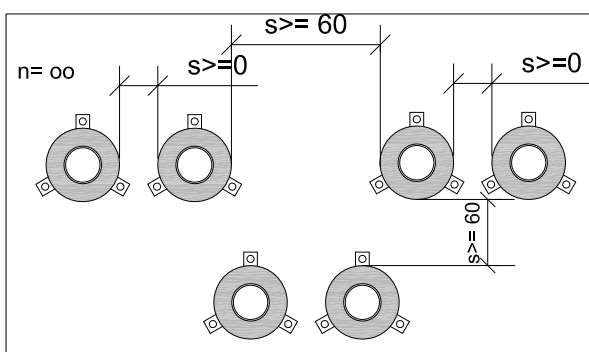
- Reaction to fire acc EN 13501-1 $\varnothing \leq 110$
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions
- Approval ETA-14/0085 of 23/04/2014

Approved pipes and insulation to be used with Conlit 150, Rockwool 800 and CFS-B

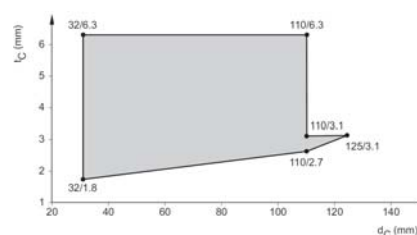
Pipes types	Copper, unalloyed steel, alloyed steel, cast iron, stainless steel
Pipe outside diameter	dm < 42 mm
Pipe thickness	1.2 mm < tm < 14.2 mm
Elastomeric foamed thermal insulation	CS with minimum length (ld>250mm) on both sides of the wall.
Elastomeric foamed thermal insulation thickness	9 mm < De < 35 mm
Incombustible thermal insulation, based on mineral wool (combustibility class A1 or A2 in acc EN 13501	- Conlit 150 inside the wall/floor only with Insulation thickness (td>19 mm) - Rockwool 800, covering the metal pipe outside the wall/floor with Insulation thickness td> 20 mm

*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.



**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Zero distance to other system

ID

IND-RF-PP-0124

FIRESTOP COLLAR ENDLESS

0124_01

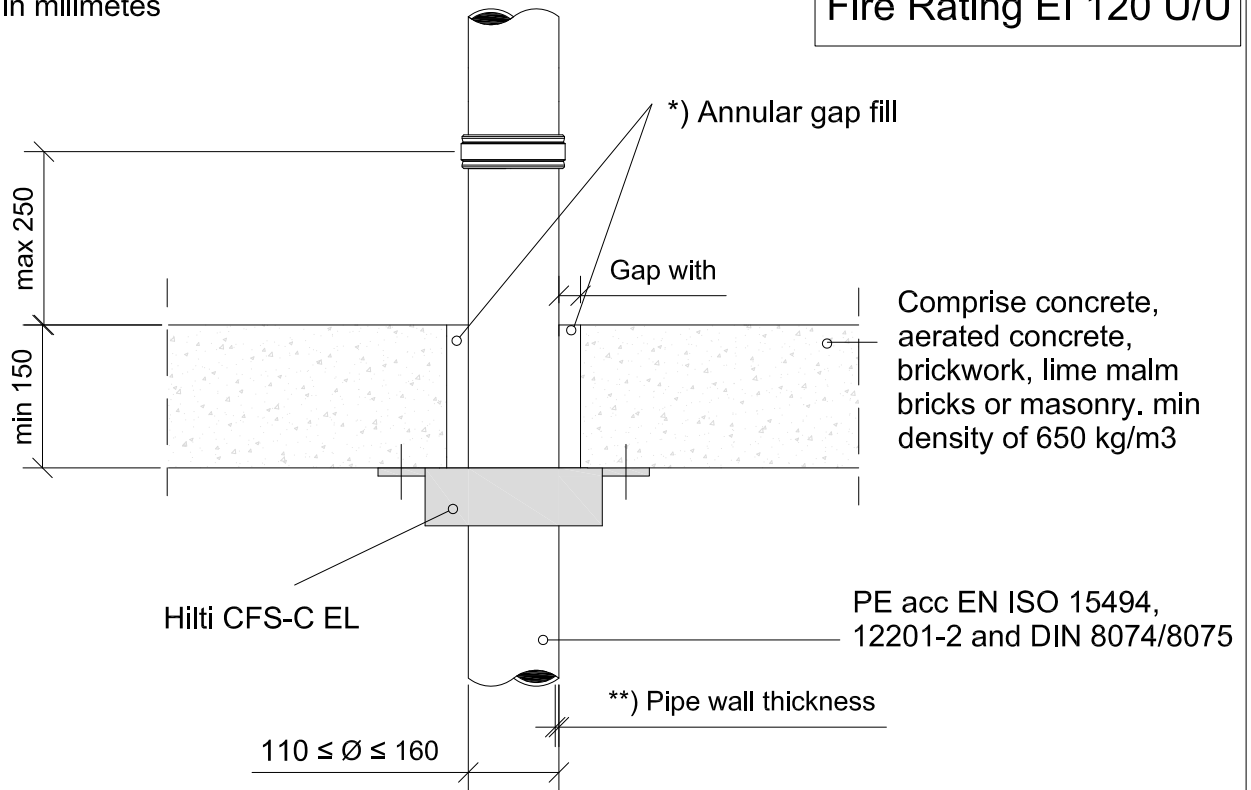
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U

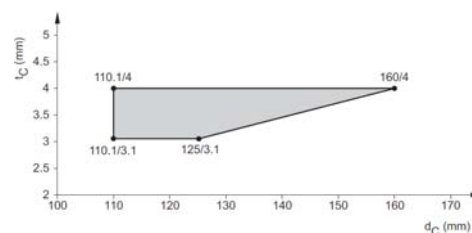
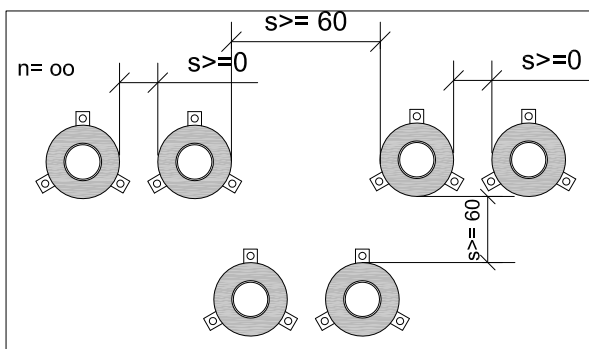


*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

***) The pipe wall thickness approved can be found in this graphic





CONTENTS

Zero distance to CFS-B

ID

IND-RF-PP-0125

FIRESTOP COLLAR ENDLESS

0125_01

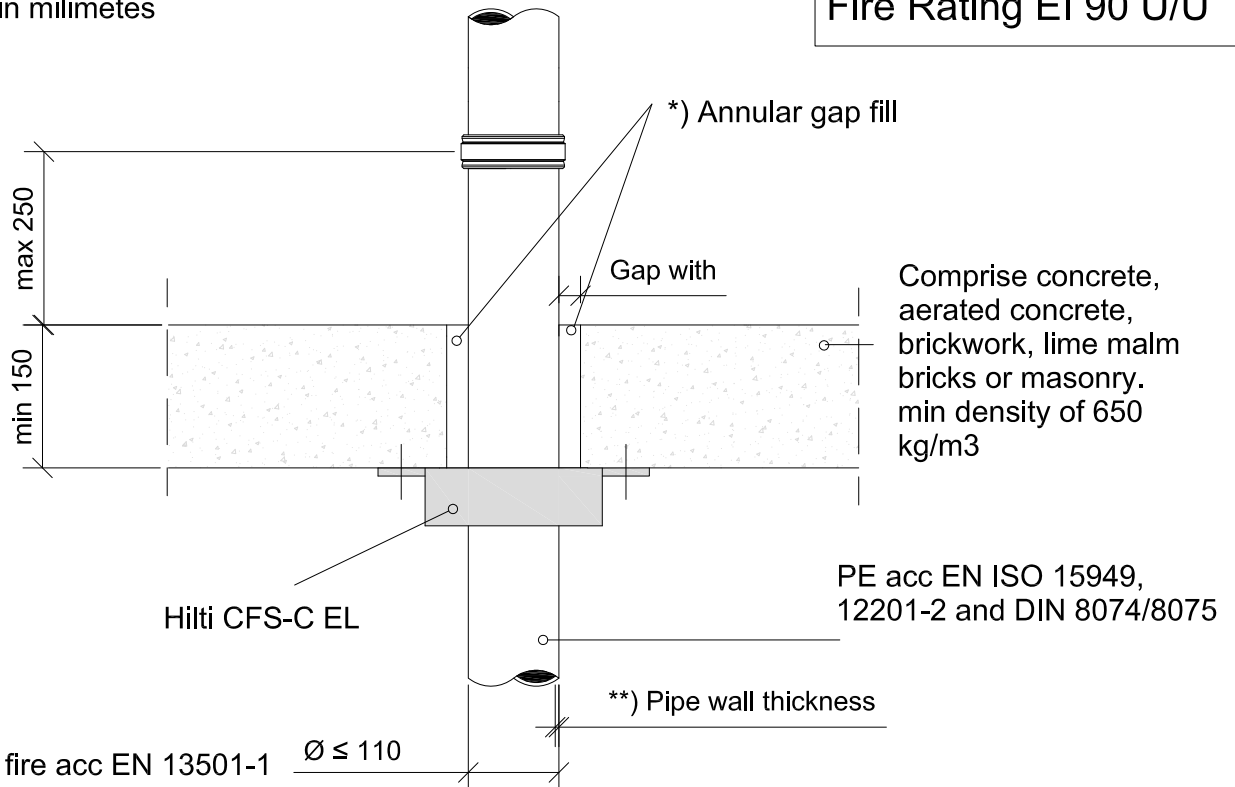
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 U/U



Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³

PE acc EN ISO 15949, 12201-2 and DIN 8074/8075

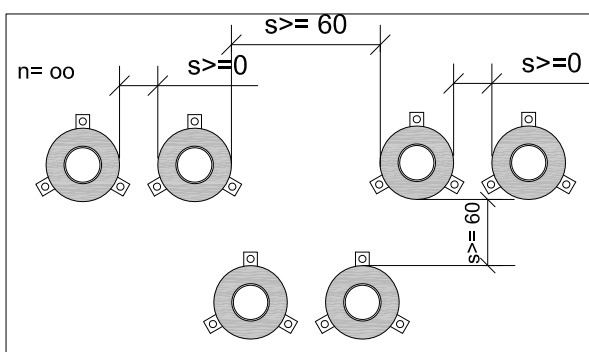
- Reaction to fire acc EN 13501-1 $\varnothing \leq 110$
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions
- Approval ETA-14/0085 of 23/04/2014

Approved pipes and insulation to be used with CFS-B

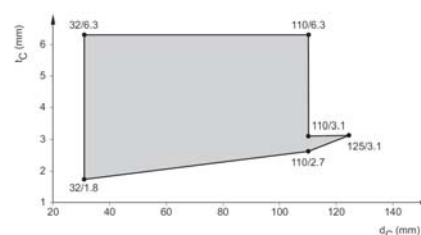
*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

Pipes types	Copper, unalloyed steel, alloyed steel, cast iron, stainless steel
Pipe outside diameter	dm < 42 mm
Pipe thickness	1.2 mm < tm < 14.2 mm
Elastomeric foamed thermal insulation	CS with minimum length (ld>250mm) on both sides of the floor.
Elastomeric foamed thermal insulation thickness	9 mm < De < 35 mm



**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Straight plastic pipe in a floor

ID

IND-RF-PP-0132

FIRESTOP COLLAR ENDLESS

0132_01

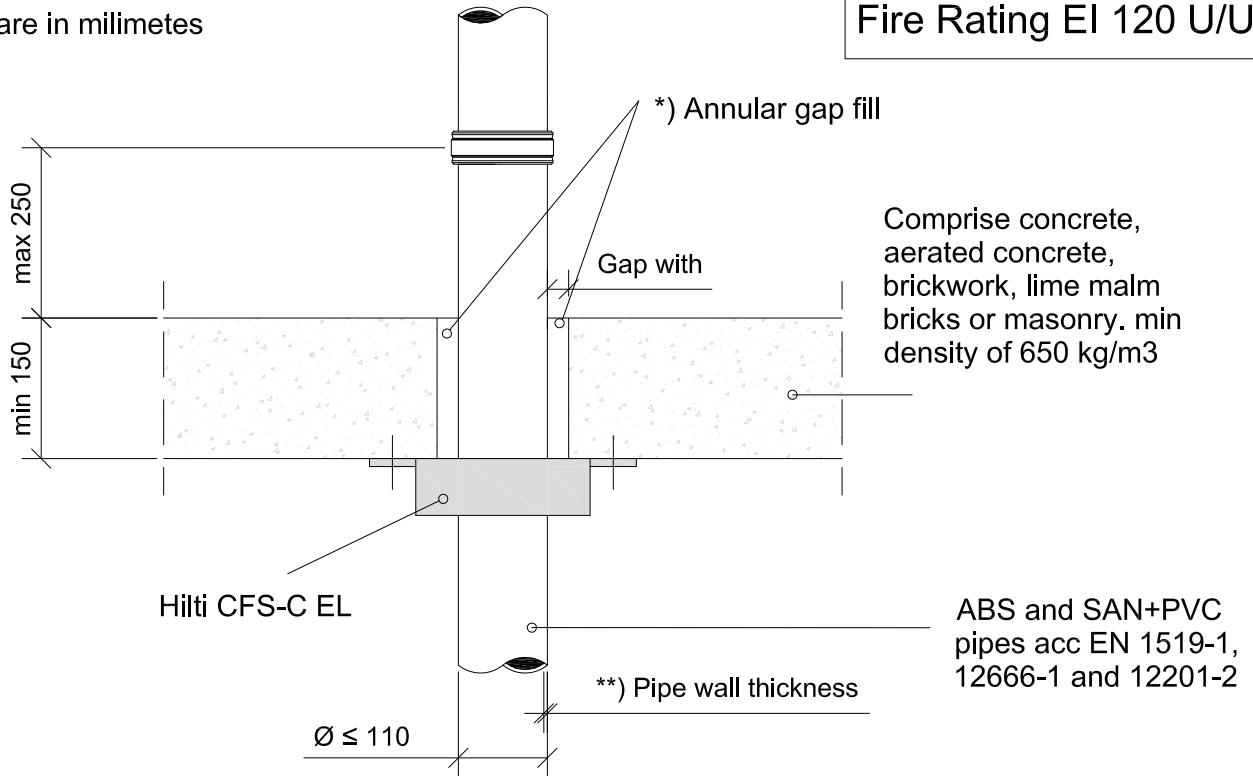
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U

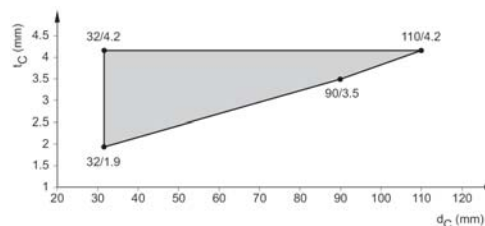


*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

***) The pipe wall thickness approved can be found in this graphic





CONTENTS

Straight plastic pipe in a floor

ID

IND-RF-PP-0133

FIRESTOP COLLAR ENDLESS

0133_01

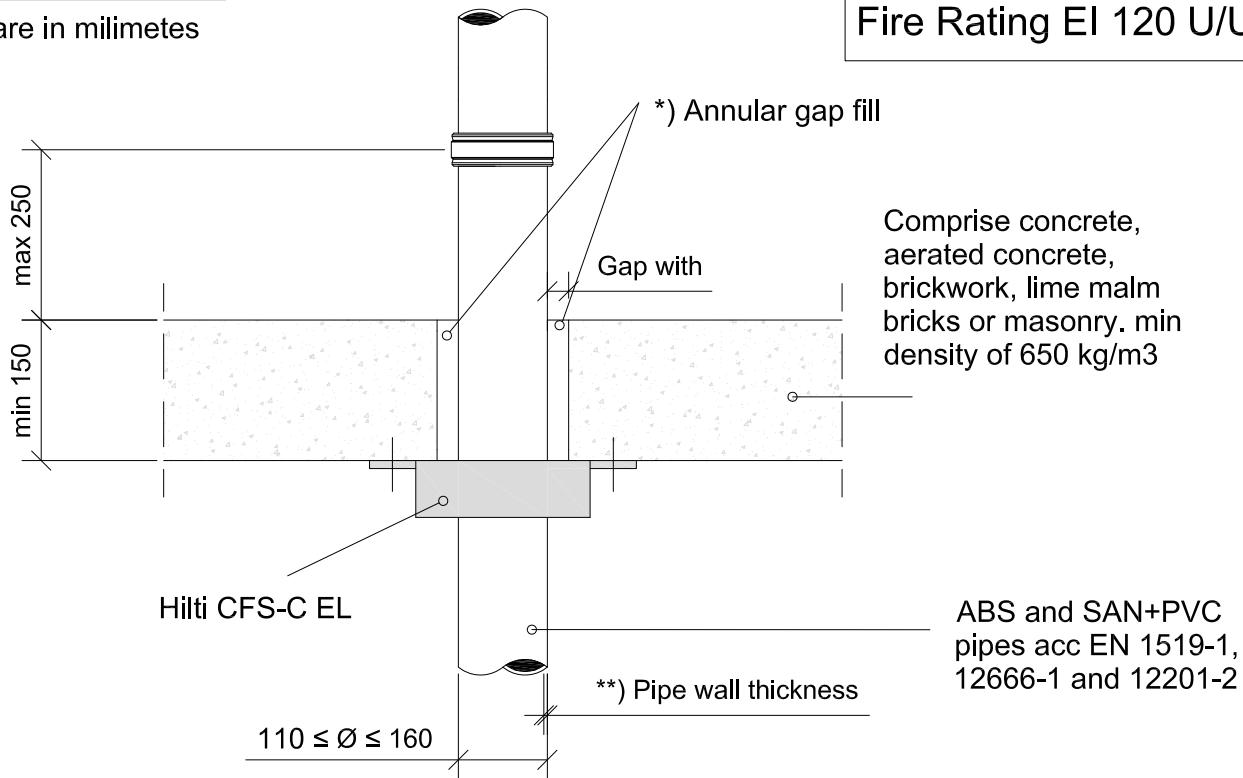
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U

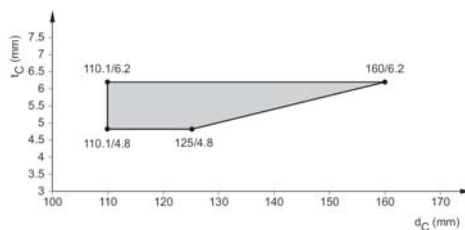


*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Straight plastic pipe in a floor

ID

IND-RF-PP-0134

FIRESTOP COLLAR ENDLESS

0134_01

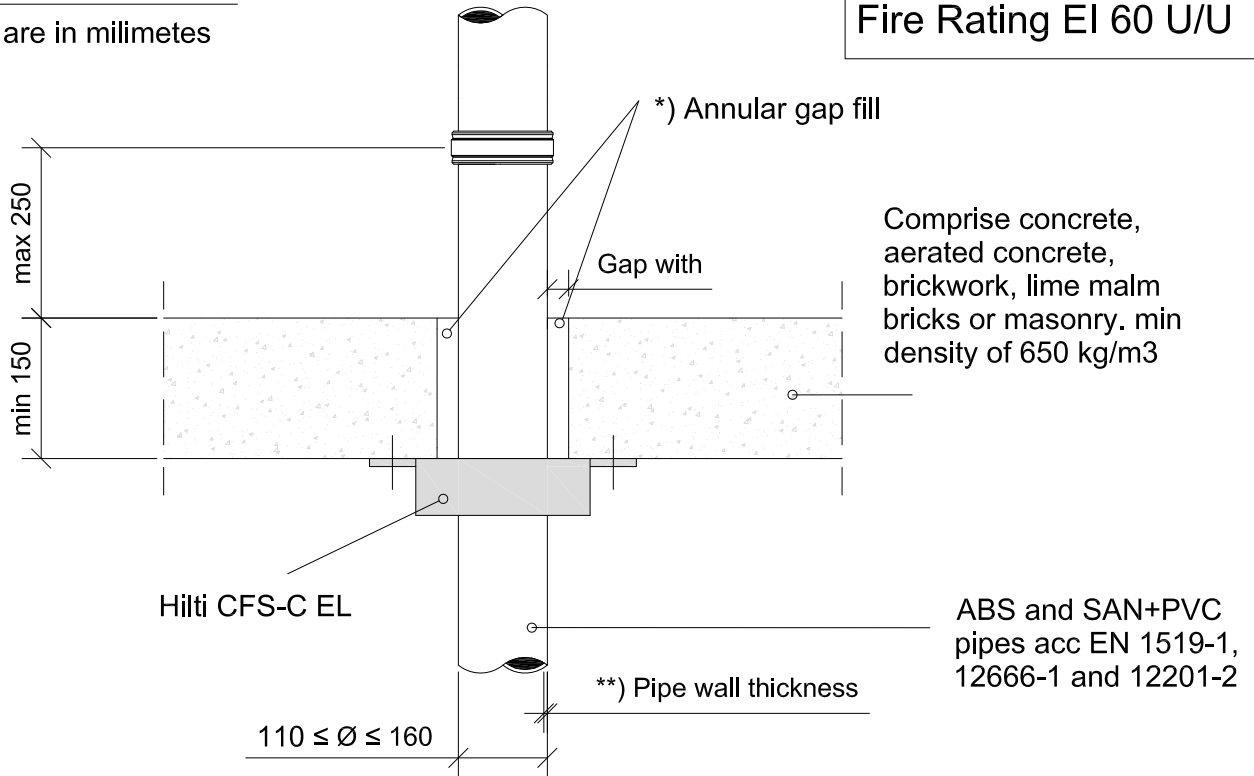
REV

00

No scale

All units are in millimetres

Fire Rating EI 60 U/U



Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³

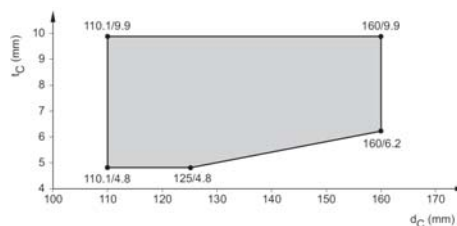
ABS and SAN+PVC pipes acc EN 1519-1, 12666-1 and 12201-2

***) Annular gap fill material**

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

****) The pipe wall thickness approved can be found in this graphic**





CONTENTS

Inclined plastic pipe in a rigid floor

ID

IND-RF-PP-0137

FIRESTOP COLLAR ENDLESS

0137_01

REV

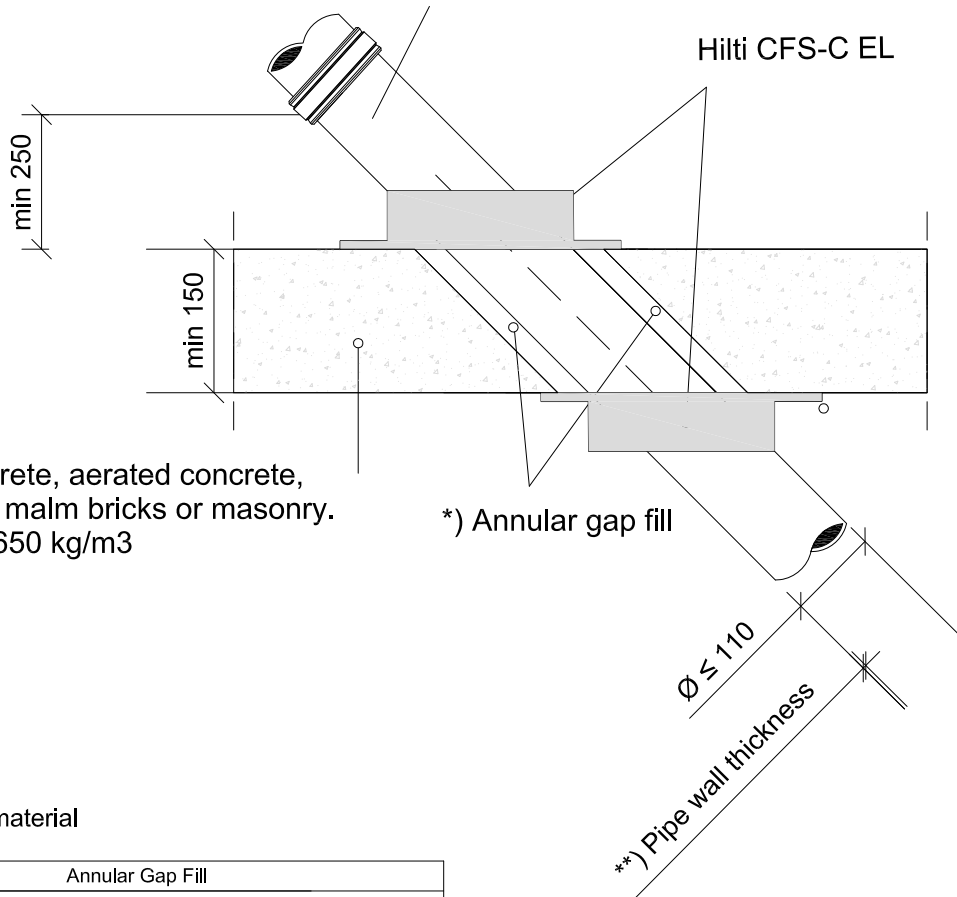
00

No scale

All units are in millimetres

ABS and SAN+PVC pipes acc EN 1519-1, 12666-1 and 12201-2

Fire Rating EI 120 U/U



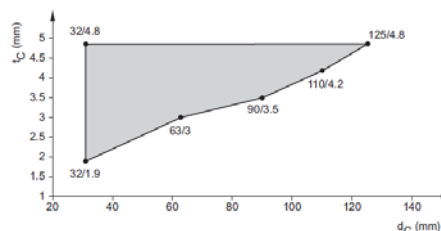
Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³

*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**) The pipe wall thickness approved can be found in this graphic



HUOM! Mikäli dokumentin sisältöä muokataan, tulee hyväksynnän kattavuus tarkistaa.

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CONTENTS

Plastic pipe on the wall

ID

IND-RF-PP-0138

FIRESTOP COLLAR ENDLESS

0138_01

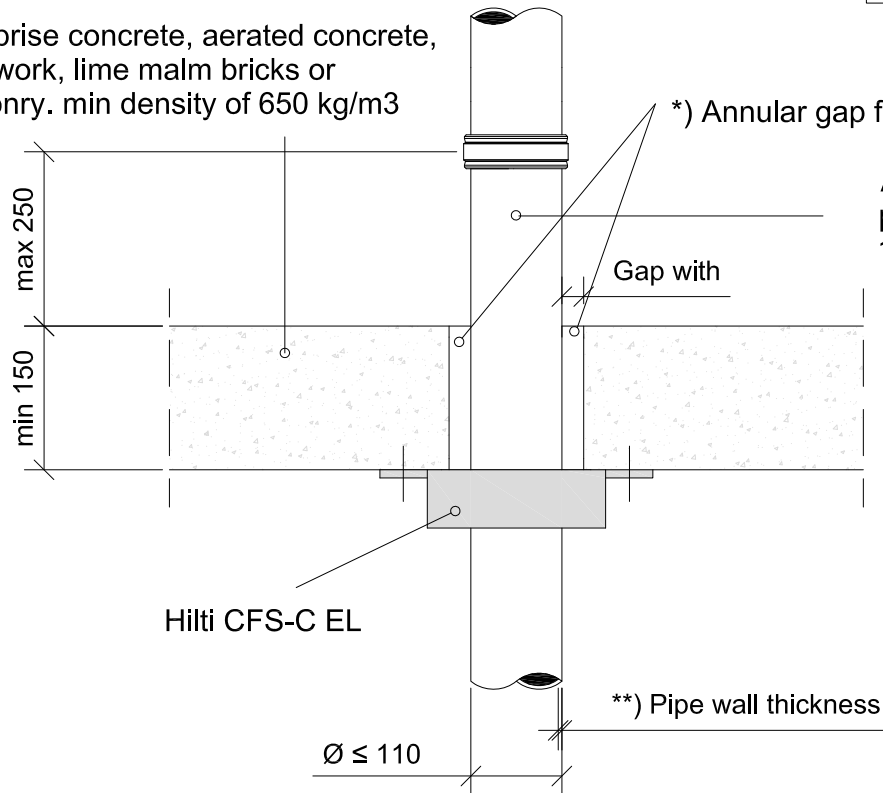
REV 00

No scale

All units are in millimetres

Fire Rating EI 120 U/U

Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³



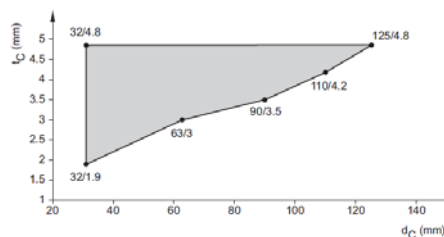
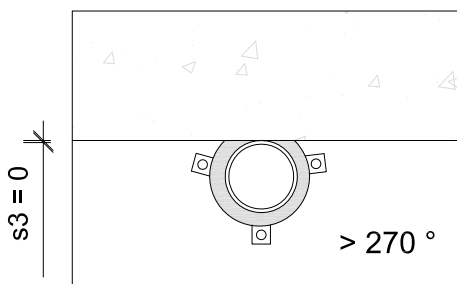
ABS and SAN+PVC pipes acc EN 1519-1, 12666-1 and 12201-2

*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Plastic pipe on the corner in a rigid floor

ID

IND-RF-PP-0139

FIRESTOP COLLAR ENDLESS

0139_01

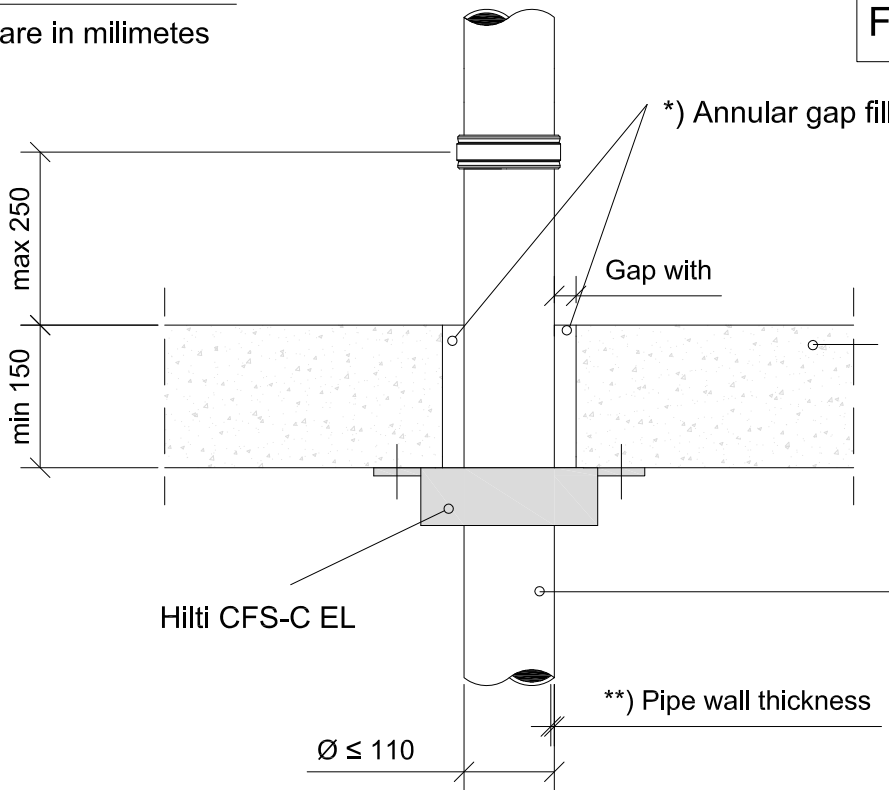
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 U/U



Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³

ABS and SAN+PVC pipes acc EN 1519-1, 12666-1 and 12201-2

Hilti CFS-C EL

** Pipe wall thickness

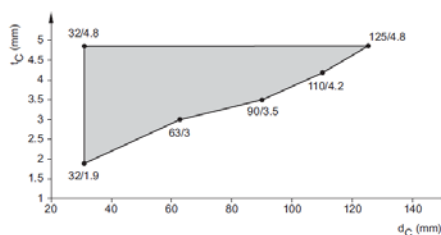
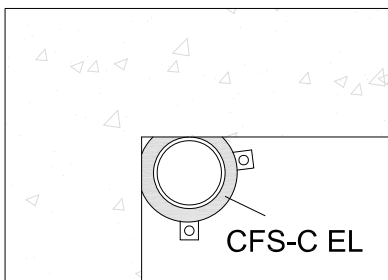
$\varnothing \le 110$

*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

** The pipe wall thickness approved can be found in this graphic





CONTENTS

Plastic pipe junction in floors
(Manifold)

ID

IND-RF-PP-0140

FIRESTOP COLLAR ENDLESS

0140_01

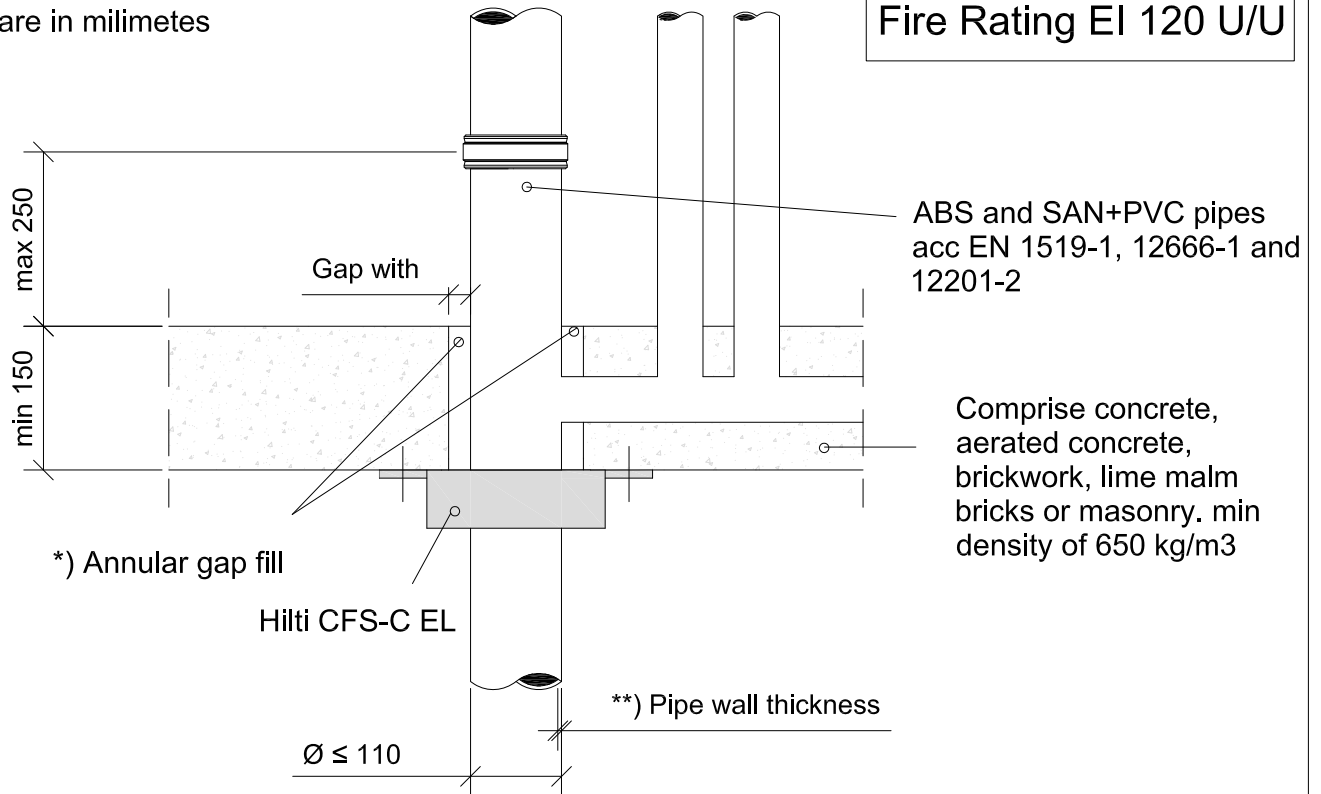
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U



Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³

*) Annular gap fill

Hilti CFS-C EL

**) Pipe wall thickness

$\varnothing \leq 110$

*) Annular gap fill material

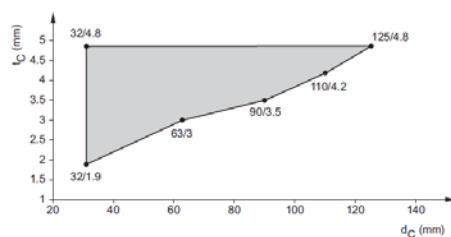
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

DESCRIPTION

Inside the floor there are one or more pipe junctions/manifolds into the central waste water pipe, where horizontal running minor pipes flow to. Those minor pipes have a U/C end configuration and can be installed in line on an unlimited amount. The CFS-C EL shall be installed only on the bottom part of the central waste water pipe.

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Plastic pipe junction in floors
(Manifold)

ID

IND-RF-PP-0141

FIRESTOP COLLAR ENDLESS

0141_01

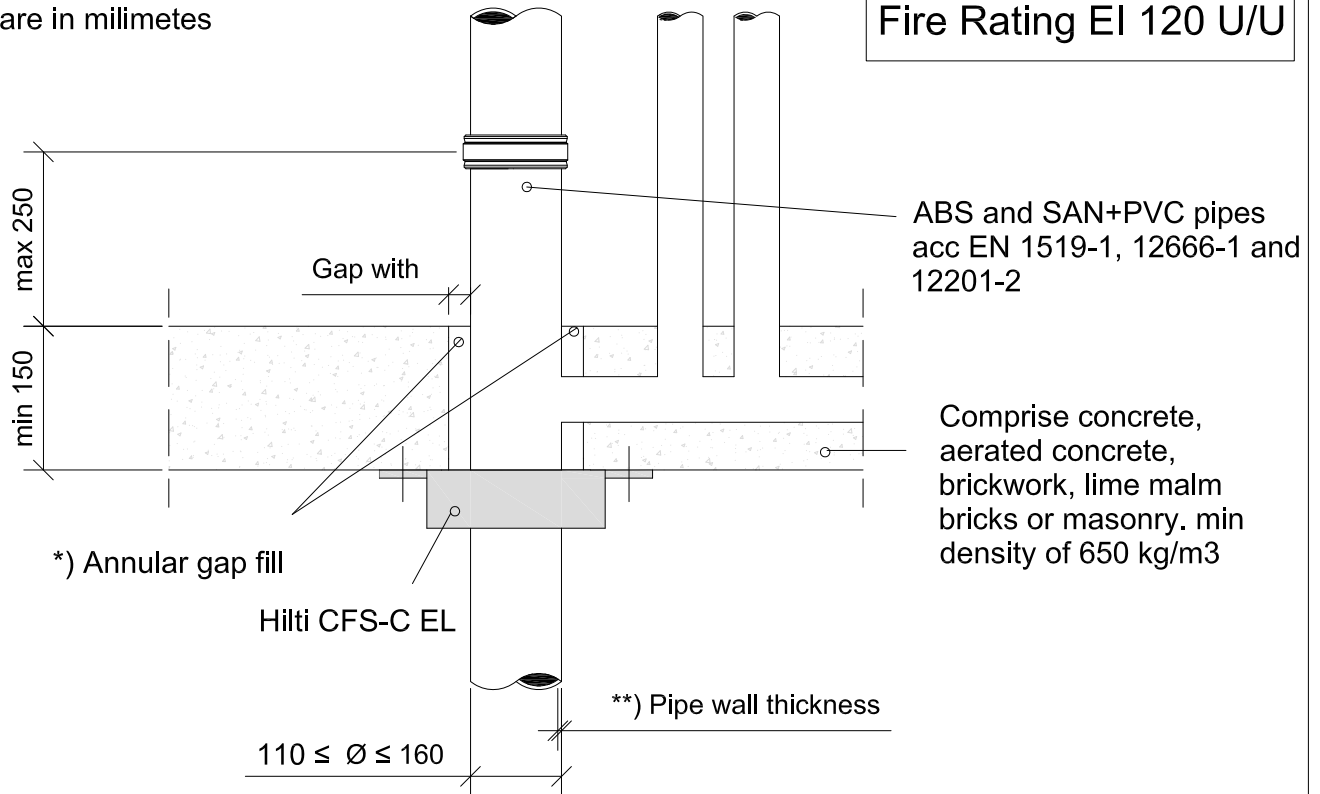
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U



*) Annular gap fill

Hilti CFS-C EL

**) Pipe wall thickness

$110 \leq \varnothing \leq 160$

*) Annular gap fill material

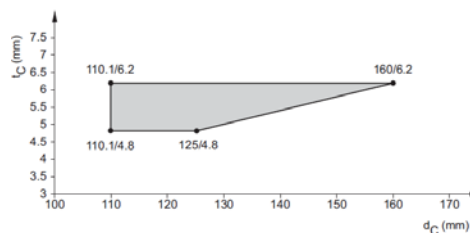
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

DESCRIPTION

Inside the floor there are one or more pipe junctions/manifolds into the central waste water pipe, where horizontal running minor pipes flow to. Those minor pipes have a U/C end configuration and can be installed in line on an unlimited amount. The CFS-C EL shall be installed only on the bottom part of the central waste water pipe.

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Plastic pipe junction in floors
(Manifold)

ID

IND-RF-PP-0142

FIRESTOP COLLAR ENDLESS

0142_01

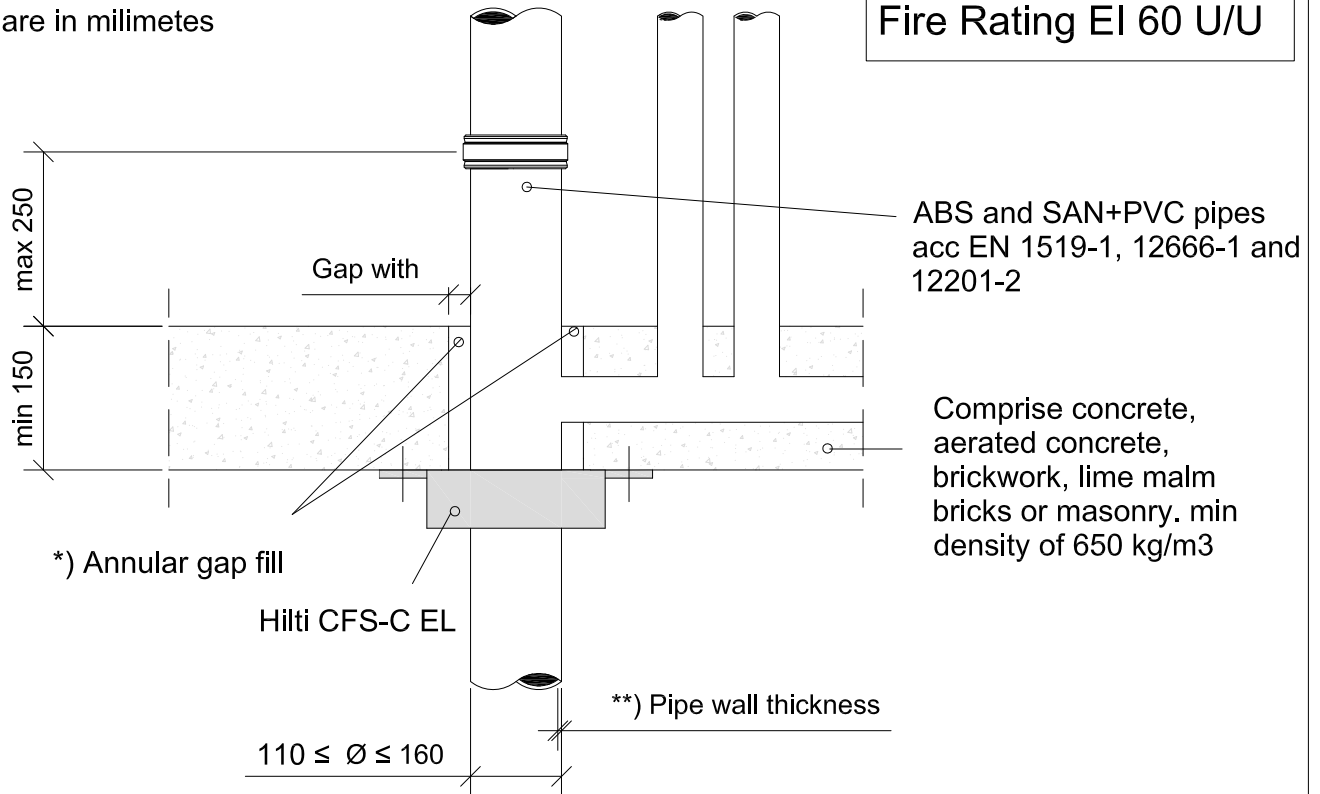
REV

00

No scale

All units are in millimetres

Fire Rating EI 60 U/U



*) Annular gap fill material

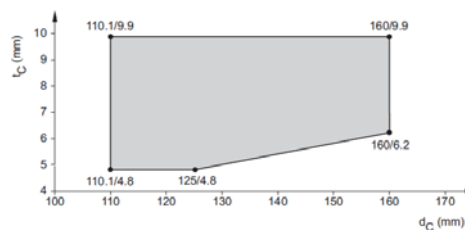
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

DESCRIPTION

Inside the floor there are one or more pipe junctions/manifolds into the central waste water pipe, where horizontal running minor pipes flow to. Those minor pipes have a U/C end configuration and can be installed in line on an unlimited amount. The CFS-C EL shall be installed only on the bottom part of the central waste water pipe.

**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Zero distance to other system
and Conlit

ID

IND-RF-PP-0147

FIRESTOP COLLAR ENDLESS

0147_01

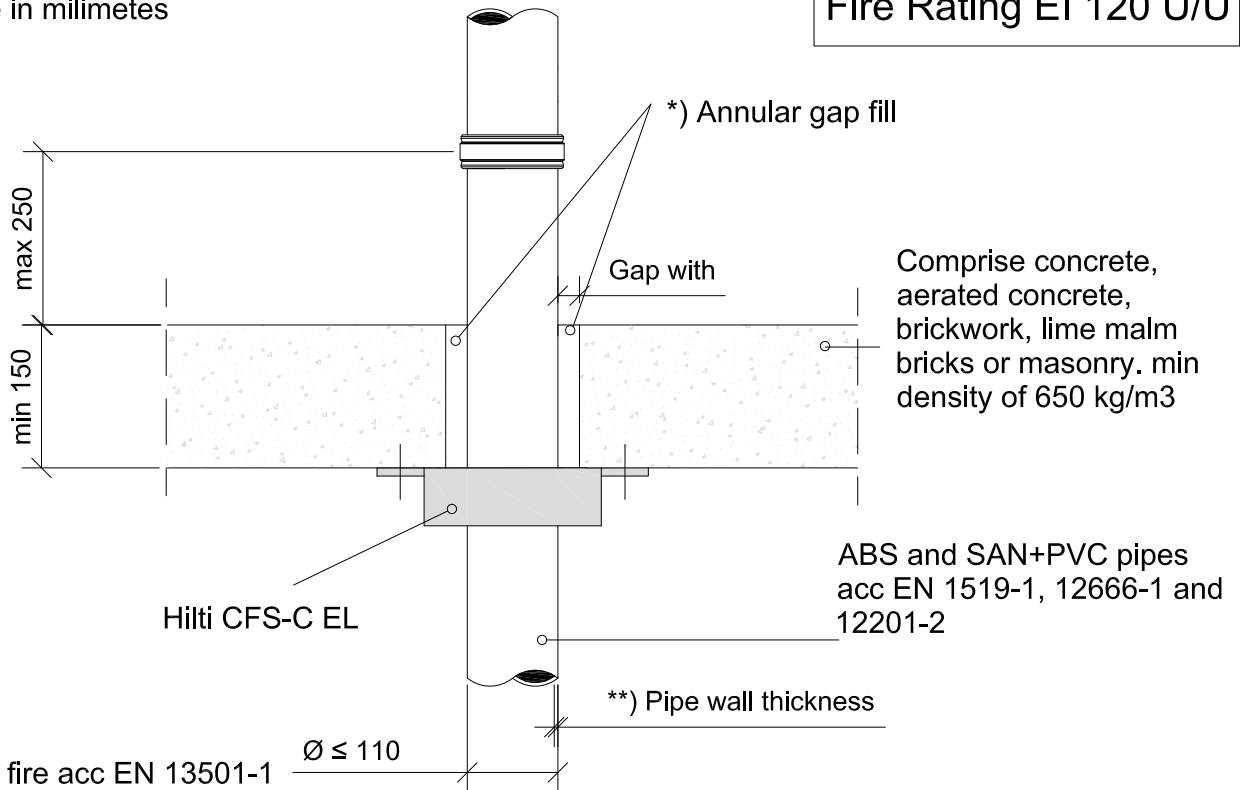
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/U



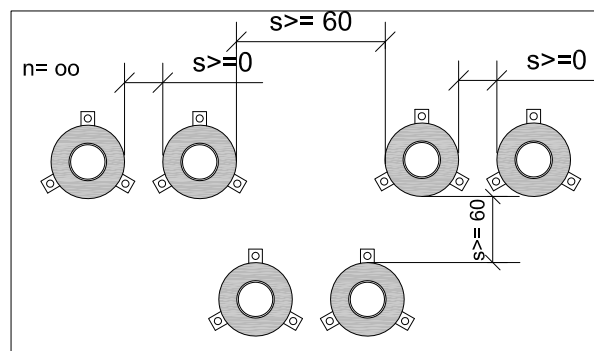
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions
- Approval ETA-14/0085 of 23/04/2014

Approved pipes and insulation to be used with Conlit 150, Rockwool 800 and CFS-B

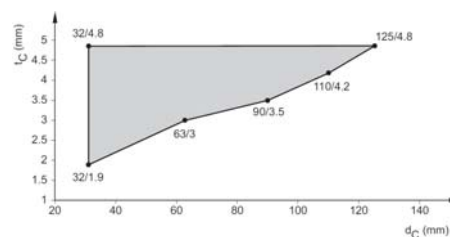
Pipes types	Copper, unalloyed steel, alloyed steel, cast iron, stainless steel
Pipe outside diameter	dm < 42 mm
Pipe thickness	1.2 mm < tm < 14.2 mm
Elastomeric foamed thermal insulation	CS with minimum length (ld>250mm) on both sides of the wall.
Elastomeric foamed thermal insulation thickness	9 mm < De < 35 mm
Incombustible thermal insulation, based on mineral wool (combustibility class A1 or A2 in acc EN 13501	- Conlit 150 inside the wall/floor only with Insulation thickness (td>19 mm) - Rockwool 800, covering the metal pipe outside the wall/floor with Insulation thickness td> 20 mm

*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.



***) The pipe wall thickness approved can be found in this graphic





CONTENTS

Zero distance to CFS-B

ID

IND-RF-PP-0148

FIRESTOP COLLAR ENDLESS

0148_01

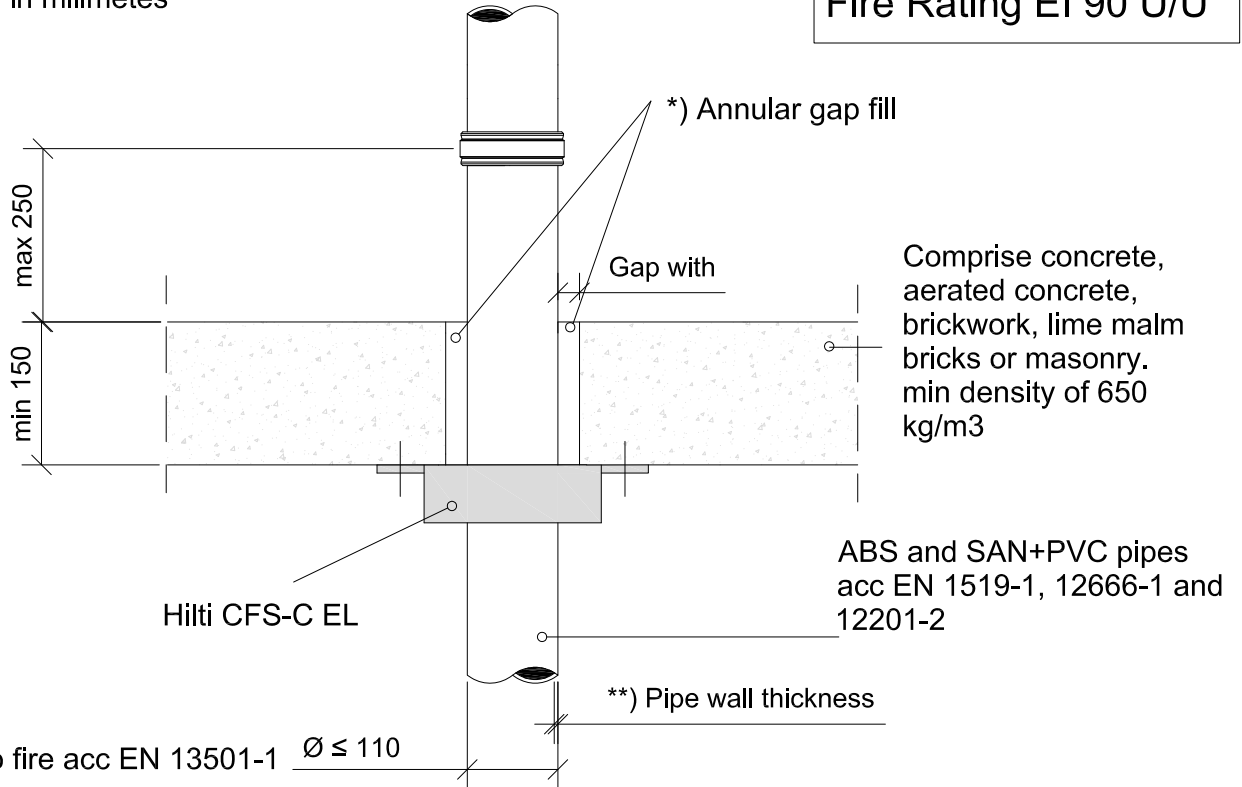
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 U/U



Comprise concrete, aerated concrete, brickwork, lime malm bricks or masonry. min density of 650 kg/m³

ABS and SAN+PVC pipes acc EN 1519-1, 12666-1 and 12201-2

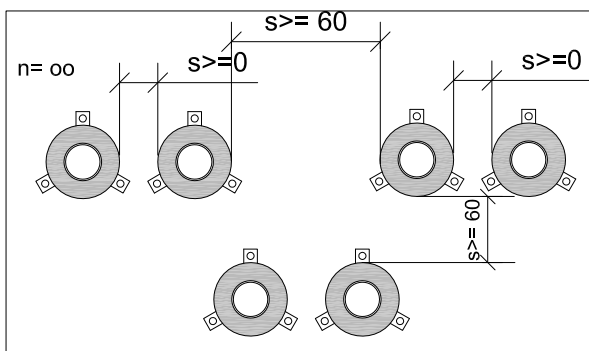
- Reaction to fire acc EN 13501-1 $\text{Ø} \leq 110$
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions
- Approval ETA-14/0085 of 23/04/2014

*) Annular gap fill material

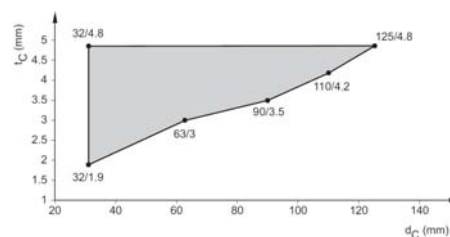
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementitious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

Approved pipes and insulation to be used with CFS-B

Pipes types	Copper, unalloyed steel, alloyed steel, cast iron, stainless steel
Pipe outside diameter	$d_m < 42 \text{ mm}$
Pipe thickness	$1.2 \text{ mm} < t_m < 14.2 \text{ mm}$
Elastomeric foamed thermal insulation	CS with minimum length ($l_d > 250 \text{ mm}$) on both sides of the floor.
Elastomeric foamed thermal insulation thickness	$9 \text{ mm} < De < 35 \text{ mm}$



**) The pipe wall thickness approved can be found in this graphic





CONTENTS

Zero distance to other system

ID

IND-RF-PP-0149

FIRESTOP COLLAR ENDLESS

0149_01

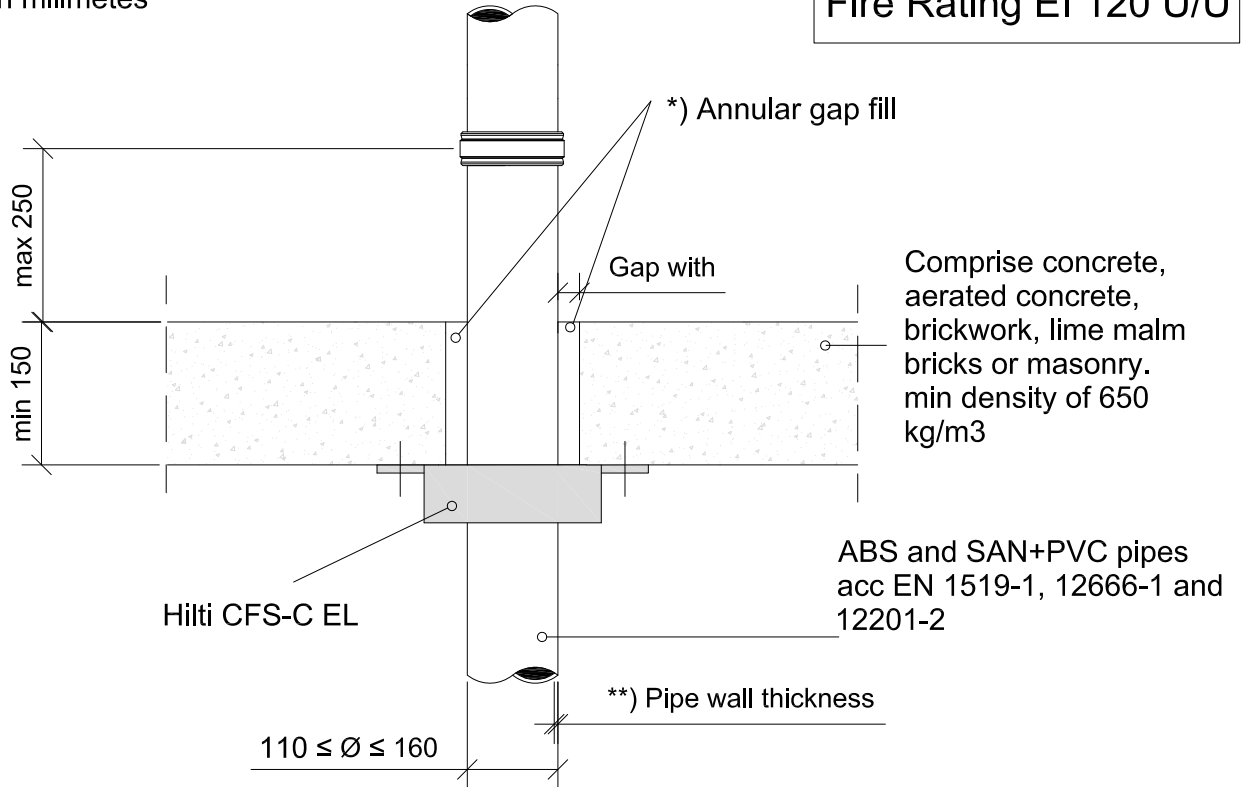
REV

00

No scale

All units are in millimetres

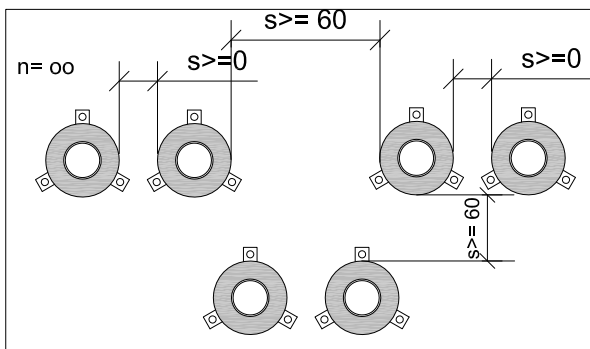
Fire Rating EI 120 U/U



*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-40	Hilti Firestop Acrylic Sealant CFS-S ACR on top side of floor only with depth > 25 mm, backfilled with mineral wool
0-40	Cementious mortar acc. EN 998-2 group M10 over the entire thickness of the wall.

- Approval ETA-14/0085 of 23/04/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



***) The pipe wall thickness approved can be found in this graphic

