

# Schémas d'applications pour la bande CFS-W



## Applications pour eaux usées

- Tube plastique PE en cloison épaisseur 100 mm WW-FW-PP-0006/7/9
- Tube plastique PE-HD en cloison épaisseur 100 mm WW-FW-PP-0010
- Tube plastique PE en voile rigide épaisseur 175 mm WW-RW-PP-0031
- Tube plastique PE en voile rigide épaisseur 150 mm WW-RW-PP-0032
- Tube plastique PE en voile rigide épaisseur 100 mm WW-RW-PP-0040/41/42
- Tube plastique PE-HD en voile rigide épaisseur 150 mm WW-RW-PP-0043
- Tube plastique PE-HD en voile rigide épaisseur 100 mm WW-RW-PP-0044
- Tube plastique PE en dalle rigide épaisseur 200 mm WW-RF-PP-0072/74
- Tube plastique PE en dalle rigide épaisseur 150 mm WW-RF-PP-0081
- Tube plastique PE-HD en dalle rigide épaisseur 150 mm WW-RF-PP-0083
  
- Tube plastique PVC en cloison épaisseur 100 mm WW-FW-PP-0028/29/30
- Tube plastique PVC en voile rigide épaisseur 175 mm WW-RW-PP-0064
- Tube plastique PVC en voile rigide épaisseur 150 mm WW-RW-PP-0065
- Tube plastique PVC en voile rigide épaisseur 100 mm WW-RW-PP-0069/70/71
- Tube plastique PVC en dalle rigide épaisseur 150 mm WW-RF-PP-0106/113
- Tube plastique PVC en dalle rigide épaisseur 200 mm WW-RF-PP-0108/112/117

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



CONTENTS

Straight plastic pipe in a flexible wall

ID

WW-FW-PP-0006

FIRESTOP WRAP

0006\_01

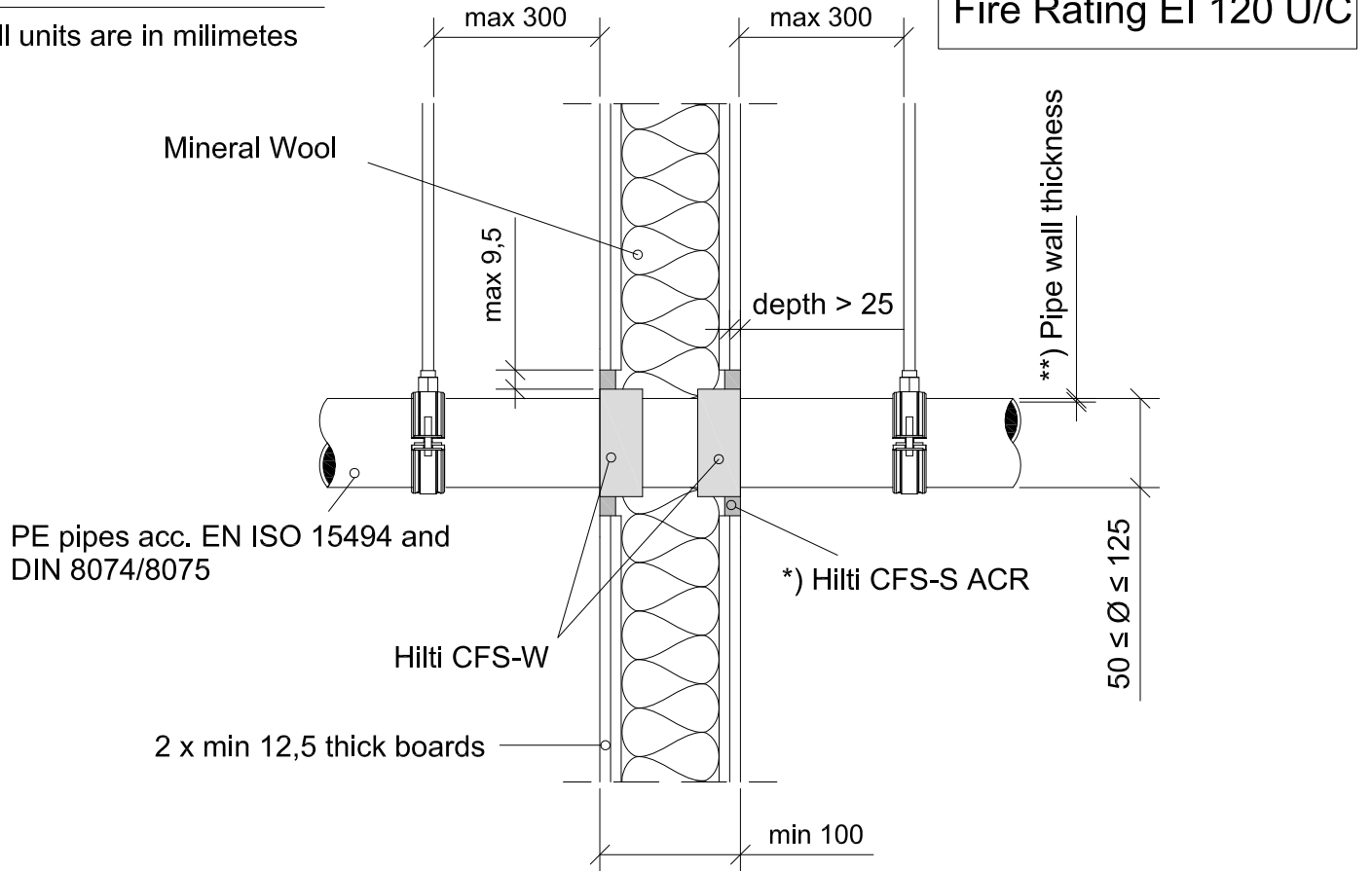
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



PE pipes acc. EN ISO 15494 and DIN 8074/8075

2 x min 12,5 thick boards

\*) Hilti CFS-S ACR

Hilti CFS-W

\*\*.) Pipe wall thickness

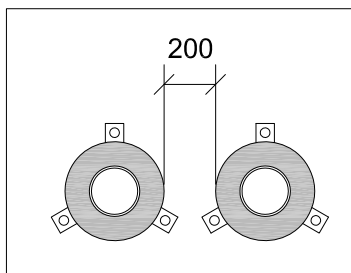
50 ≤ Ø ≤ 125

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall, backfilled with mineral wool, min 100 kg/m<sup>3</sup> in the gap between the wall lining around the opening with a depth > 100 mm

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*.) Pipe wall thickness



Minimum distance between annular gap

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	1.9 - 6.8	CFS-W SG	50/1.5"
63	1.9 - 6.8	CFS-W SG	63/2"
75	1.9 - 6.8	CFS-W SG	75/2.5"
90	3.2 - 7.1	CFS-W SG	90/3"
110	3.2 - 7.1	CFS-W SG	110/4"
125	3.2 - 7.1	CFS-W SG	125/5"
≤ 75	1.9 - 6.8	CFS-W EL	1



CONTENTS

Straight plastic pipe in a flexible wall

ID

WW-FW-PP-0007

FIRESTOP WRAP

0007\_01

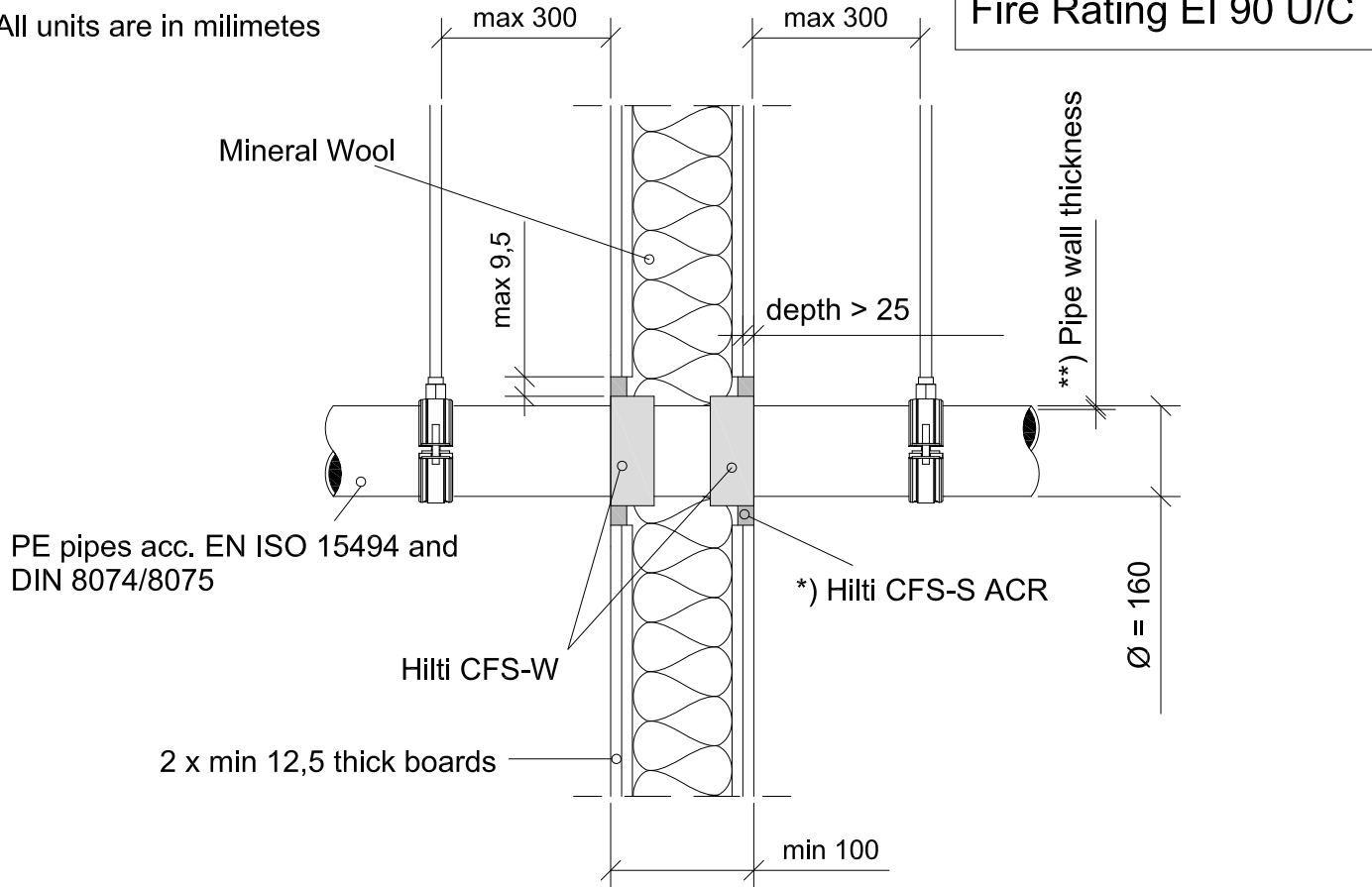
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 U/C



PE pipes acc. EN ISO 15494 and DIN 8074/8075

\*) Hilti CFS-S ACR

Hilti CFS-W

2 x min 12,5 thick boards

min 100

Ø = 160

\*\*.) Pipe wall thickness

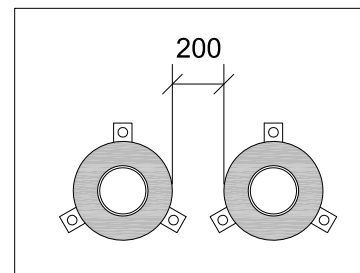
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall, backfilled with mineral wool, min 100 kg/m<sup>3</sup> in the gap between the wall lining around the opening with a depth > 100 mm

\*\*.) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	9.1	CFS-W SG	160/6"
160		CFS-W EL	3



Minimum distance between annular gap



CONTENTS

Straight plastic pipe in a flexible wall

ID

WW-FW-PP-0009

FIRESTOP WRAP

0009\_01

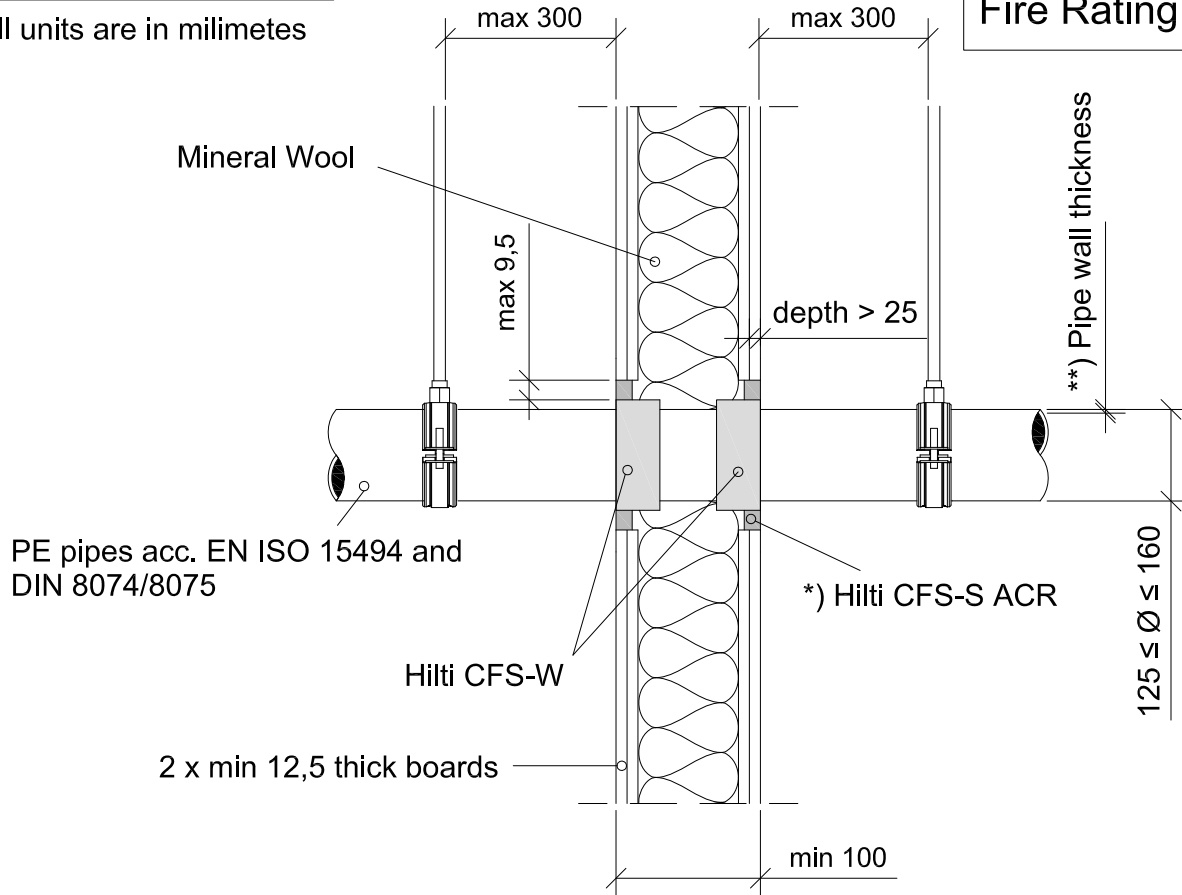
REV

00

No scale

All units are in millimetres

Fire Rating EI 60 U/C



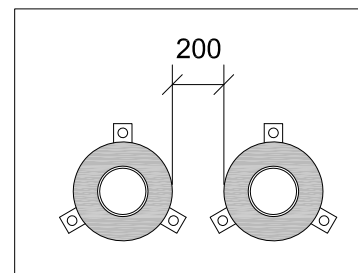
- Approval ETA-10/0405
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall, backfilled with mineral wool, min 100 kg/m<sup>3</sup> in the gap between the wall lining around the opening with a depth > 100 mm

\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	4.0 - 9.1	CFS-W SG	160/6"
125 ≤ Ø ≤ 160	4.0 - 9.1	CFS-W EL	3



Minimum distance between annular gap



CONTENTS

Straight plastic pipe in a flexible wall

ID

WW-FW-PP-0010

FIRESTOP WRAP

0010\_01

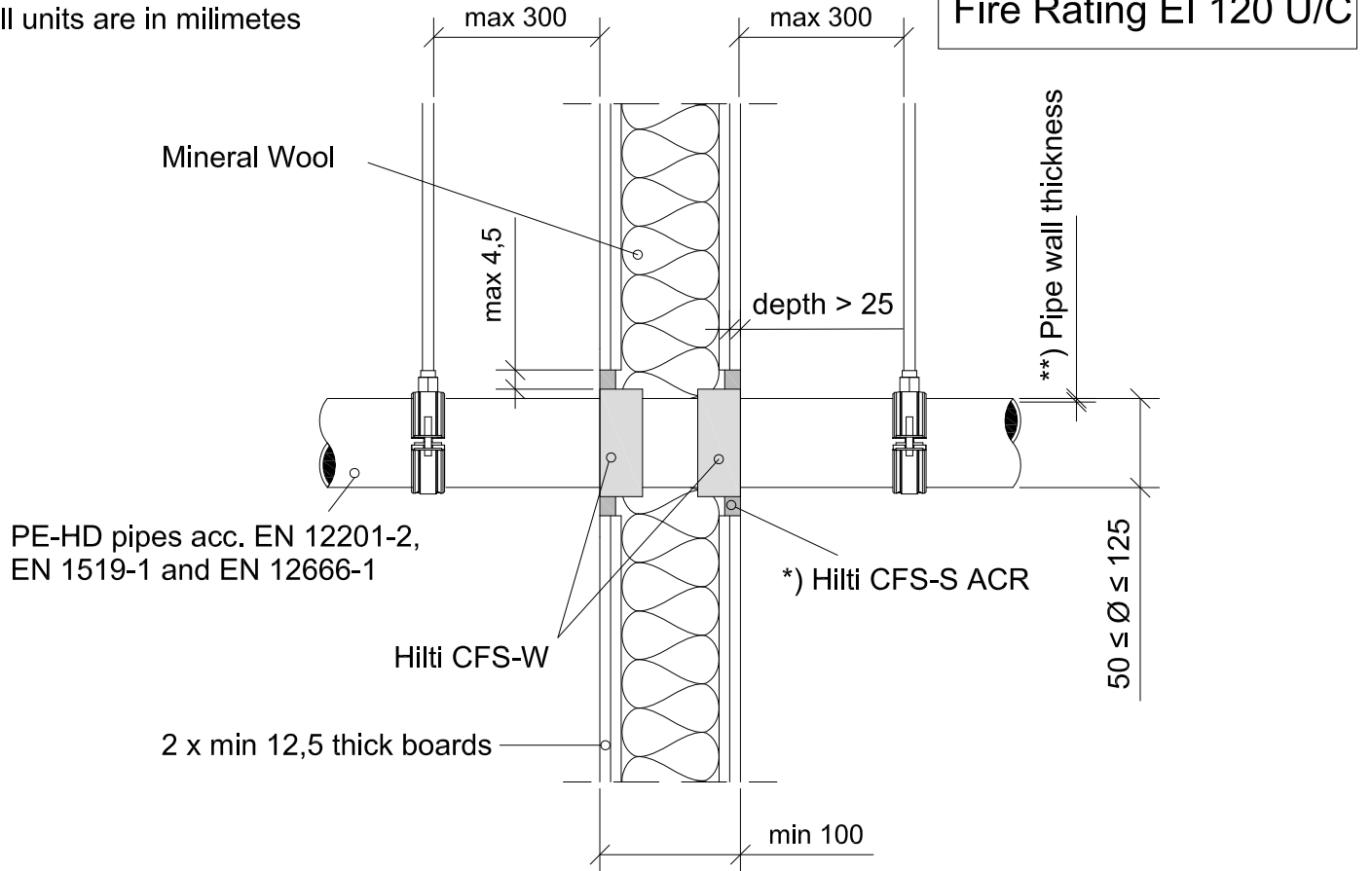
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C

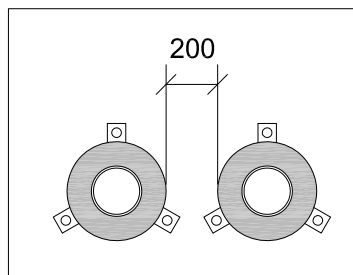


\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall, backfilled with mineral wool, min 100 kg/m<sup>3</sup> in the gap between the wall lining around the opening with a depth > 100 mm

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*) Pipe wall thickness



Minimum distance between annular gap

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	3.0	CFS-W SG	50/1.5"
63	3.0	CFS-W SG	63/2"
75	3.0	CFS-W SG	75/2.5"
90	4.8	CFS-W SG	90/3"
90	4.8	CFS-W SG	110/4"
110	4.8	CFS-W SG	125/5"
≤ 75	3.0	CFS-W EL	1
75 ≤ Ø ≤ 125	4.8	CFS-W EL	2



CONTENTS

Straight plastic pipe in a flexible wall

ID

WW-FW-PP-0028

FIRESTOP WRAP

0028\_01

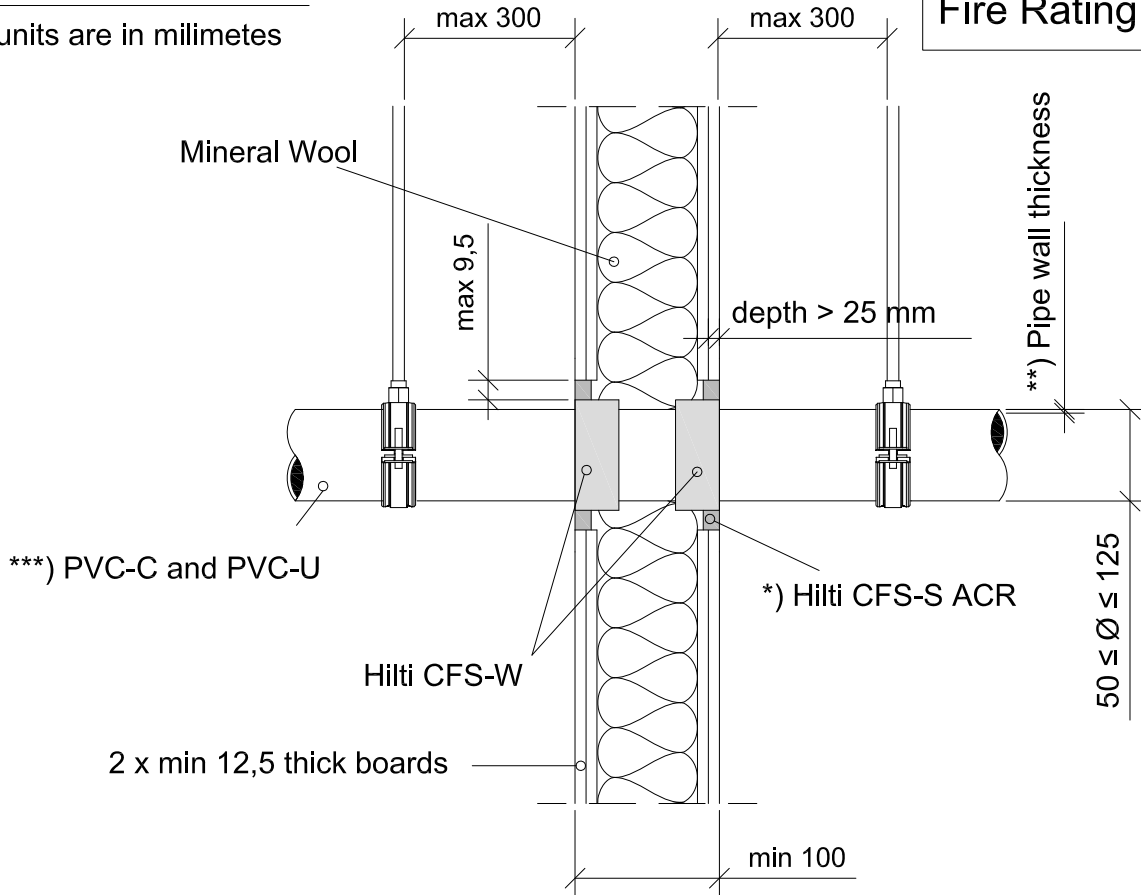
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



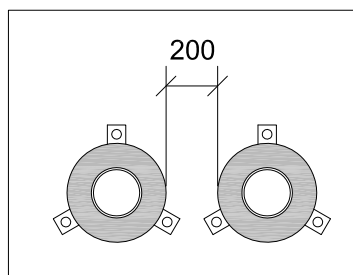
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall, backfilled with mineral wool, min 100 kg/m<sup>3</sup> in the gap between the wall lining around the opening with a depth > 100 mm

\*\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	2.2 - 3.6	CFS-W SG	50/1.5"
63	2.2 - 3.6	CFS-W SG	63/2"
75	2.2 - 3.6	CFS-W SG	75/2.5"
90	3.7	CFS-W SG	90/3"
110	3.7	CFS-W SG	110/4"
125	3.7	CFS-W SG	125/5"
≤ 75	2.2 - 3.6	CFS-W EL	1
75 ≤ Ø ≤ 125	3.7	CFS-W EL	2



Minimum distance between annular gap

\*\*\*) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1



CONTENTS

Straight plastic pipe in a flexible wall

ID

WW-FW-PP-0029

FIRESTOP WRAP

0029\_01

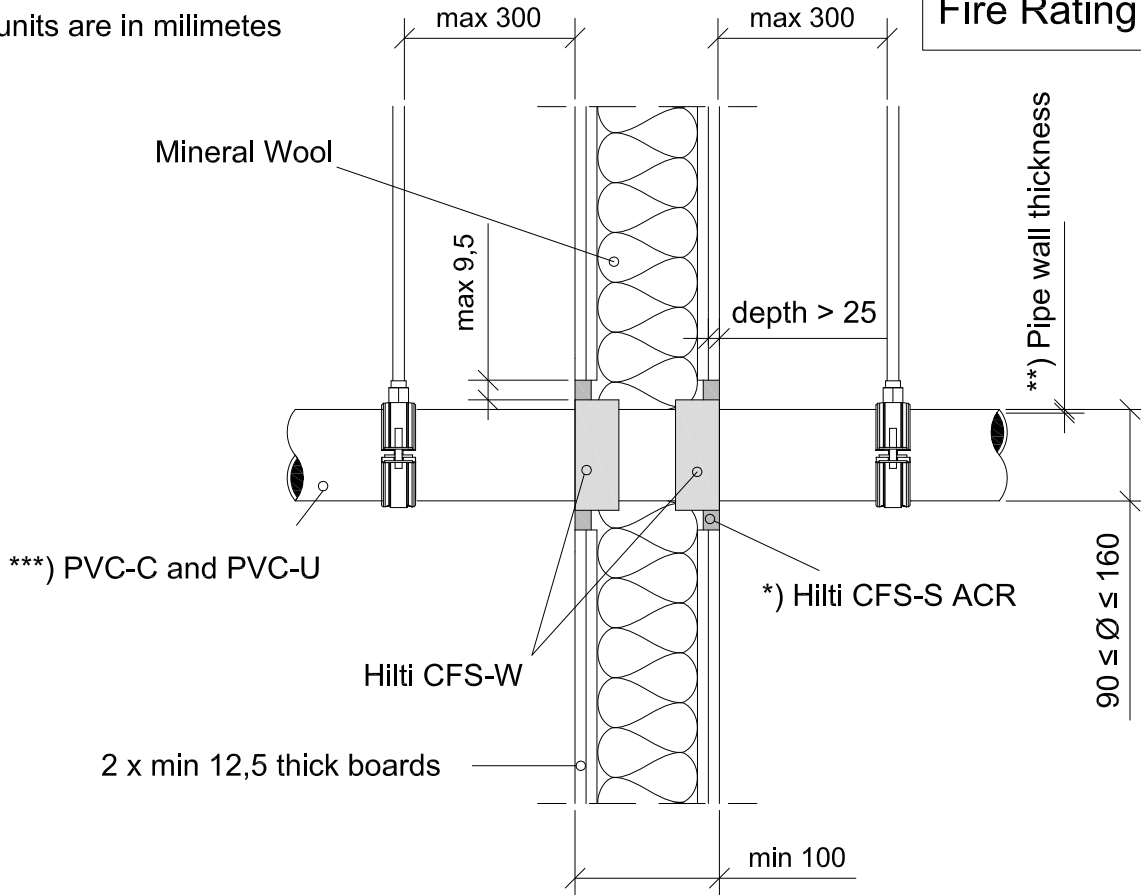
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 U/C



\*\*\*) PVC-C and PVC-U

\*) Hilti CFS-S ACR

Hilti CFS-W

2 x min 12,5 thick boards

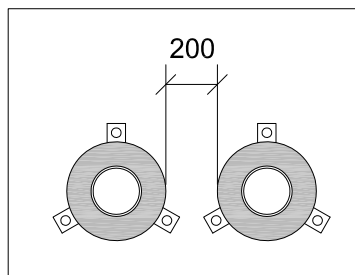
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall, backfilled with mineral wool, min 100 kg/m<sup>3</sup> in the gap between the wall lining around the opening with a depth > 100 mm

\*\* ) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
90	3.7 - 6.0	CFS-W SG	90/3"
110	3.7 - 6.0	CFS-W SG	110/4"
125	3.7 - 6.0	CFS-W SG	125/5"
160	11.8	CFS-W SG	160/6"
75 ≤ Ø ≤ 125	3.7 - 6.0	CFS-W EL	2
160	11.8	CFS-W EL	3



Minimum distance between annular gap

\*\*\*) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1



CONTENTS

Straight plastic pipe in a flexible wall

ID

WW-FW-PP-0030

FIRESTOP WRAP

0030\_01

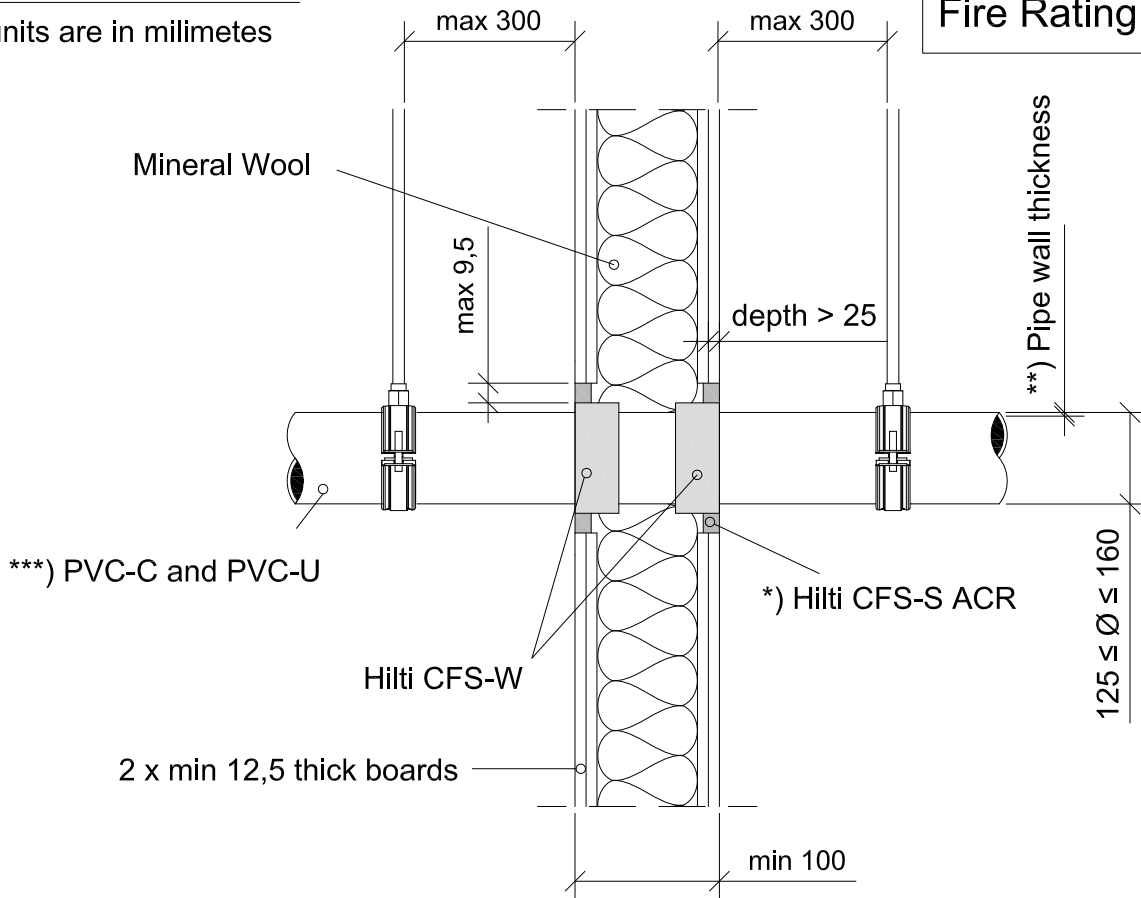
REV

00

No scale

All units are in millimetres

Fire Rating EI 60 U/C



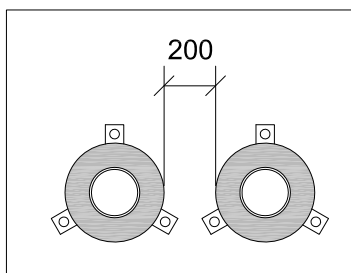
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall, backfilled with mineral wool, min 100 kg/m<sup>3</sup> in the gap between the wall lining around the opening with a depth > 100 mm

\*\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	2.5 - 11.8	CFS-W SG	160/3"
125 ≤ Ø ≤ 160	2.5 - 11.8	CFS-W EL	3



Minimum distance between annular gap

\*\*\*)) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1





CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0031

FIRESTOP WRAP

0031\_01

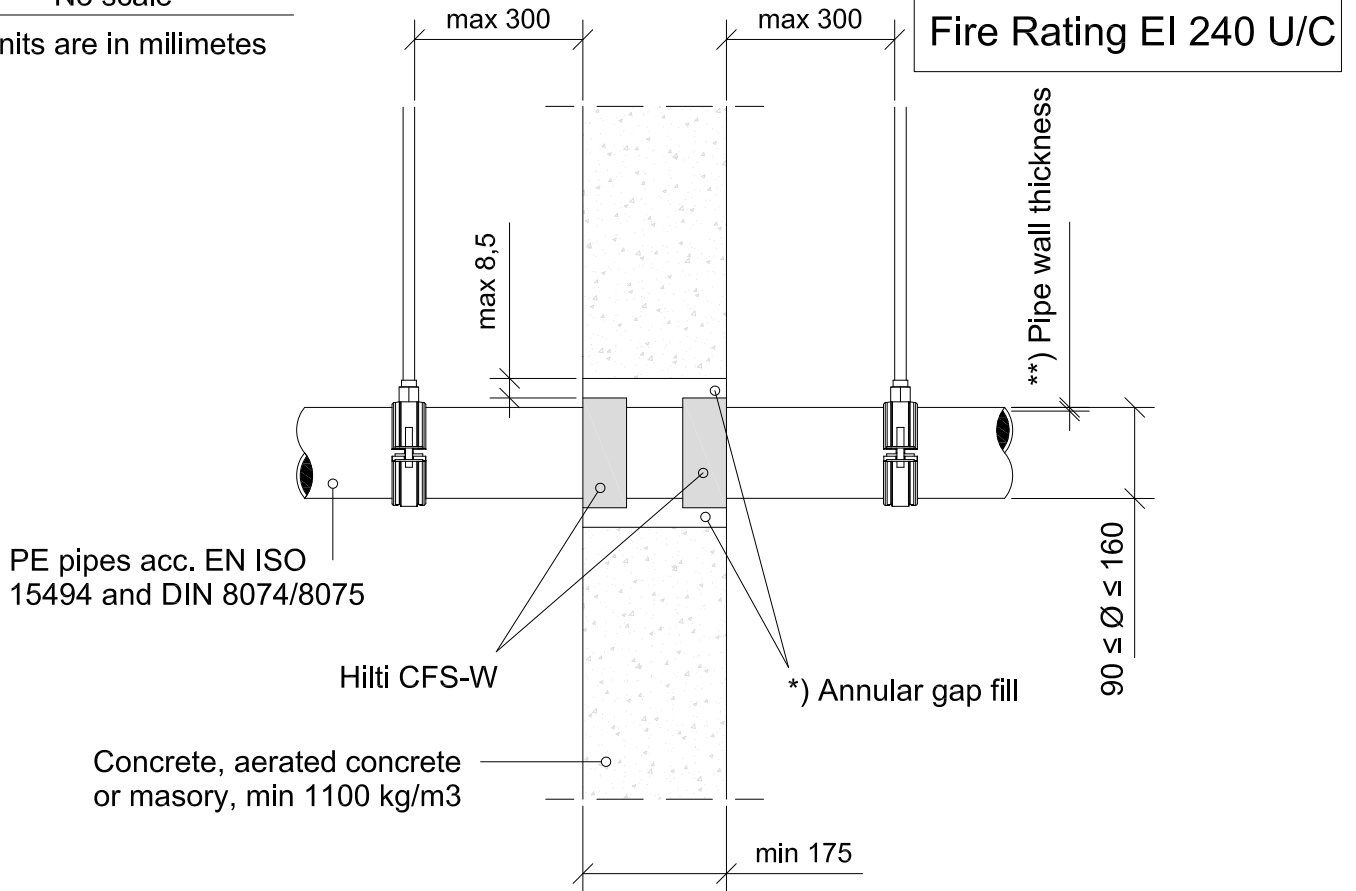
REV

00

No scale

All units are in millimetres

Fire Rating EI 240 U/C



PE pipes acc. EN ISO 15494 and DIN 8074/8075

Hilti CFS-W

Concrete, aerated concrete or masonry, min 1100 kg/m<sup>3</sup>

\*) Annular gap fill

\*\*) Pipe wall thickness

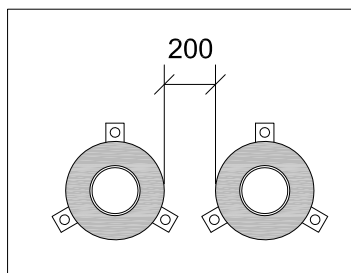
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*\*) Pipe wall thickness



Minimum distance between annular gap

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
90	2.7	CFS-W SG	90/3"
110	2.7	CFS-W SG	110/4"
160	4.0 - 14.6	CFS-W SG	160/6"
≤ 32	1.8	CFS-W EL	1
75 ≤ Ø ≤ 125	2.7	CFS-W EL	2
125 ≤ Ø ≤ 160	4.0-14.6	CFS-W EL	3



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0032

FIRESTOP WRAP

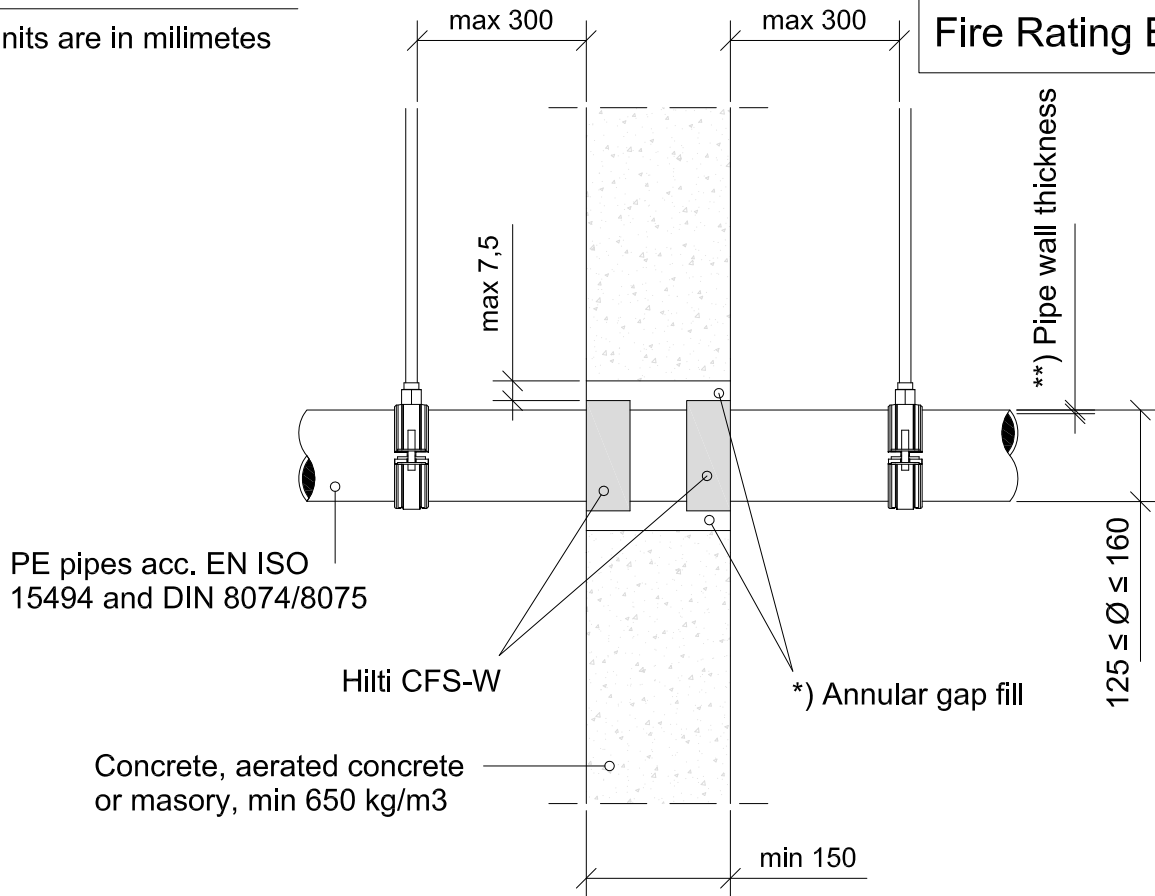
0032\_01

REV  
00

No scale

All units are in millimetres

Fire Rating EI 180 U/C



PE pipes acc. EN ISO 15494 and DIN 8074/8075

Hilti CFS-W

Concrete, aerated concrete or masonry, min 650 kg/m<sup>3</sup>

\*) Annular gap fill

\*\*) Pipe wall thickness

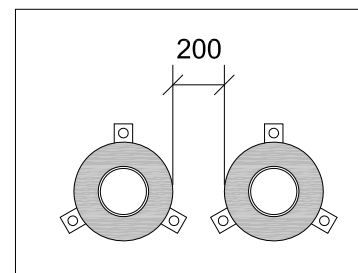
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool
Cementitious mortar over the entire thickness of the wall.

\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	4.0 - 9.1	CFS-W SG	160/6"
125 ≤ Ø ≤ 160	4.0 - 9.1	CFS-W EL	3

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



Minimum distance between annular gap



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0040

FIRESTOP WRAP

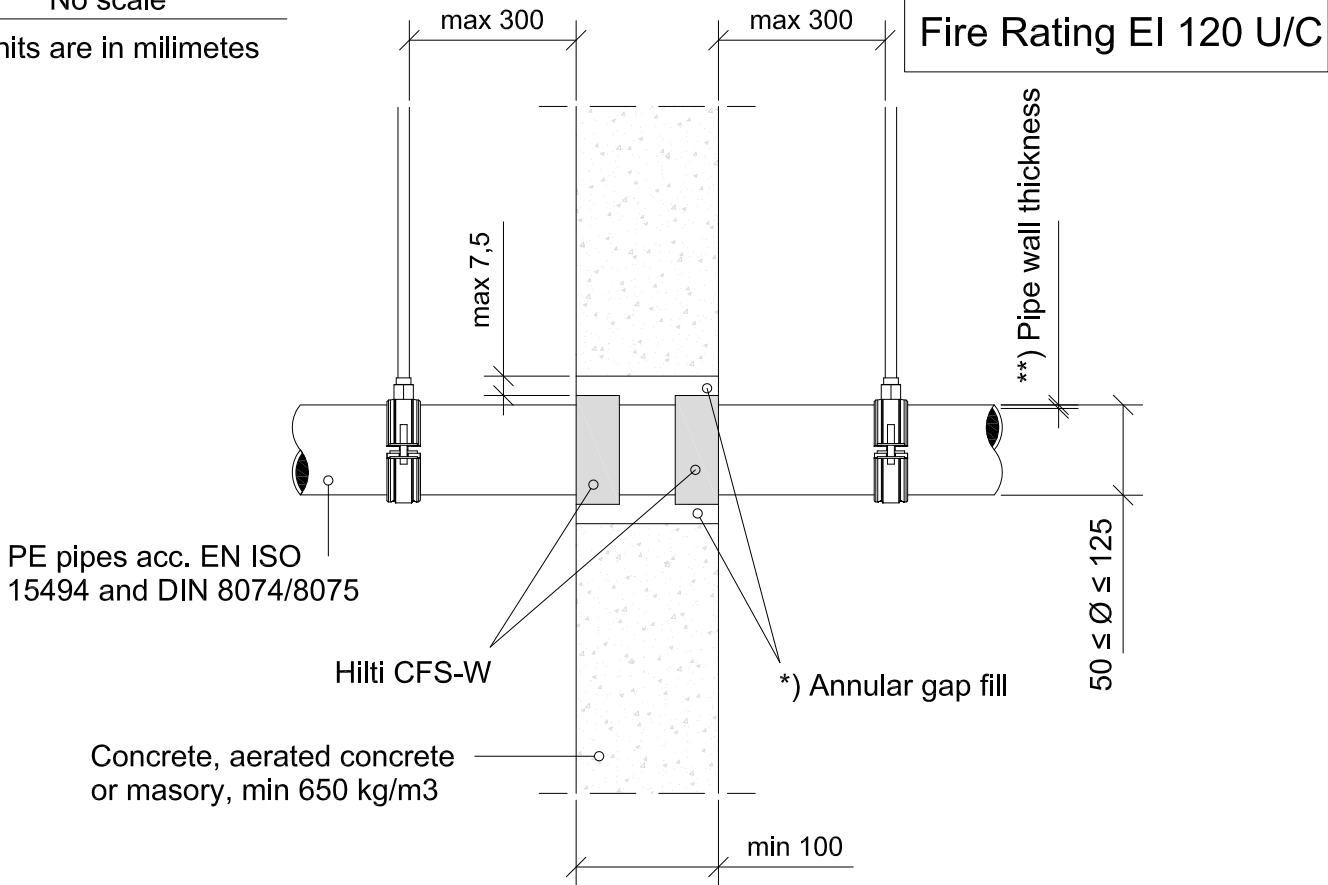
0040\_01

REV  
00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



PE pipes acc. EN ISO 15494 and DIN 8074/8075

Hilti CFS-W

Concrete, aerated concrete or masonry, min 650 kg/m<sup>3</sup>

\*) Annular gap fill

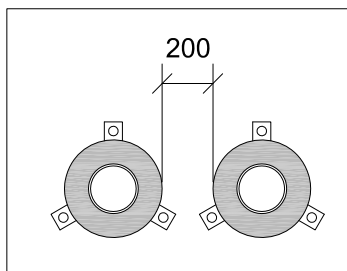
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\* ) Pipe wall thickness



Minimum distance between annular gap

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	1.9 - 6.8	CFS-W SG	50/1.5"
63	1.9 - 6.8	CFS-W SG	63/2"
75	1.9 - 6.8	CFS-W SG	75/2.5"
90	3.2 - 7.1	CFS-W SG	90/3"
110	3.2 - 7.1	CFS-W SG	110/4"
125	3.2 - 7.1	CFS-W SG	125/5"
≤ 75	1.9 - 6.8	CFS-W EL	1
75 ≤ Ø ≤ 125	3.2 - 7.1	CFS-W EL	2



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0041

FIRESTOP WRAP

0041\_01

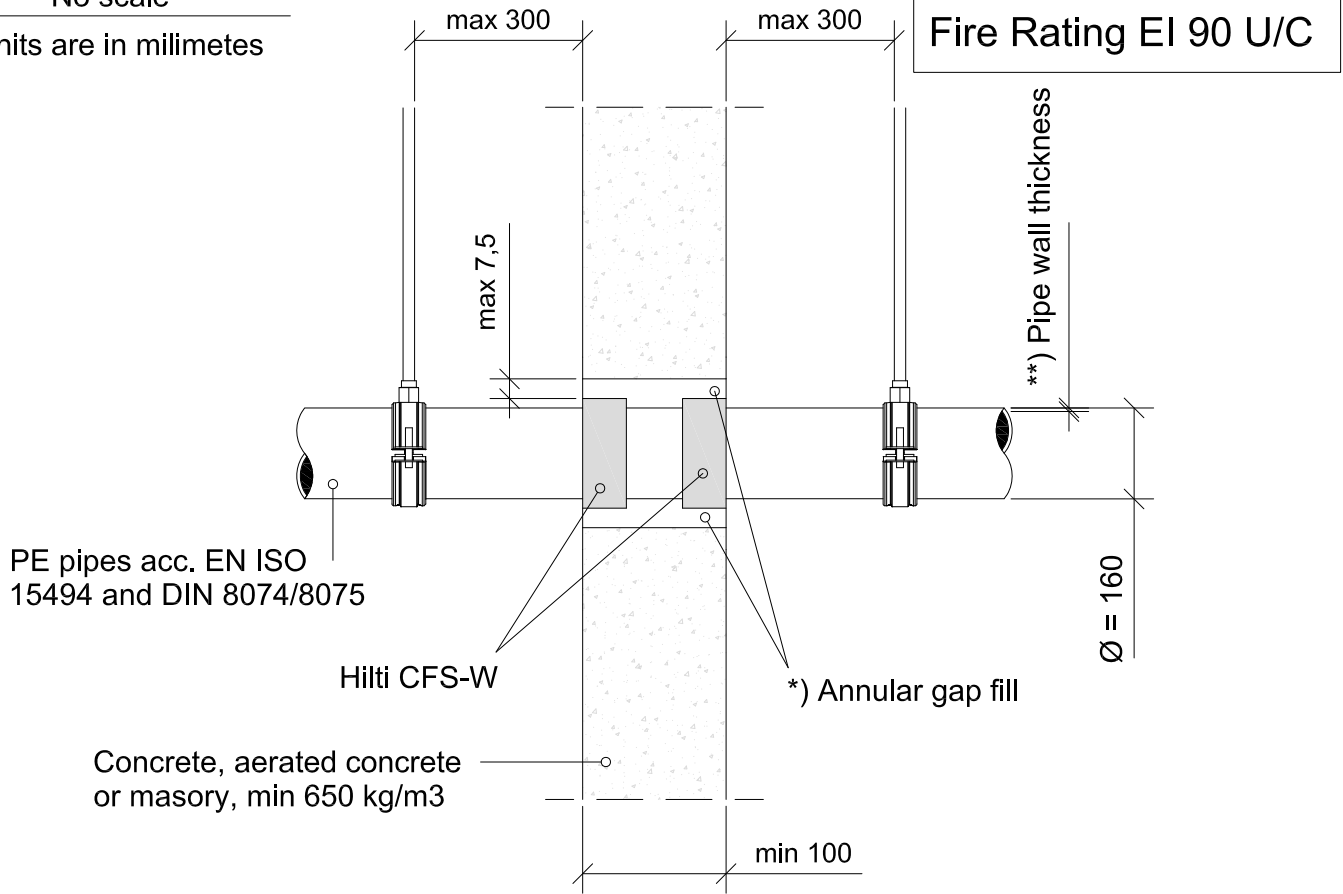
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 U/C



PE pipes acc. EN ISO 15494 and DIN 8074/8075

Hilti CFS-W

\*) Annular gap fill

Concrete, aerated concrete or masonry, min 650 kg/m<sup>3</sup>

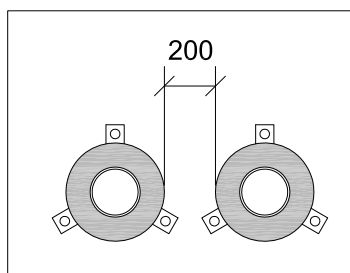
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

\*\*.) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160 160	9.1	CFS-W SG CFS-W EL	160/6" 3



Minimum distance between annular gap

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0042

FIRESTOP WRAP

0042\_01

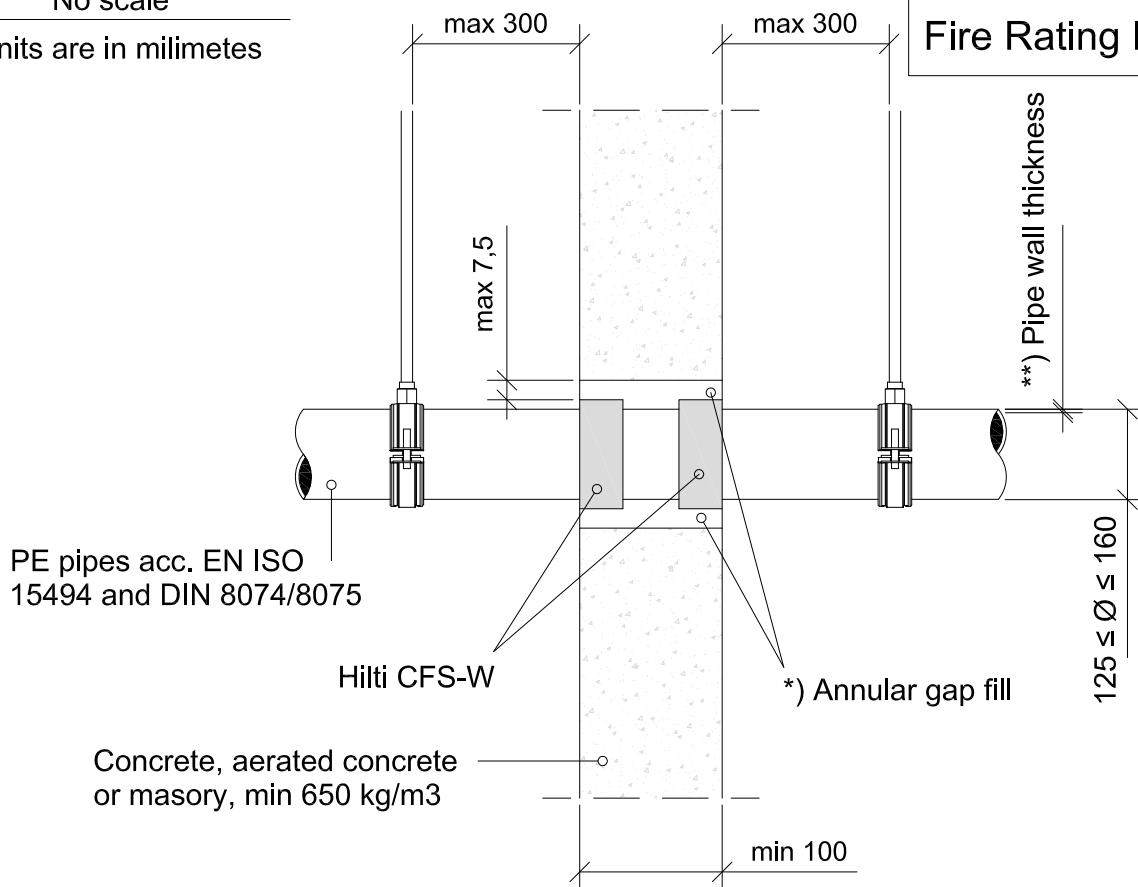
REV

00

No scale

All units are in millimetres

Fire Rating EI 60 U/C



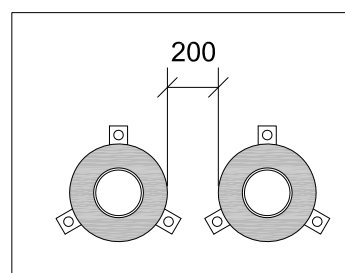
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool
Cementitious mortar over the entire thickness of the wall.

\*\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	4.0 - 9.1	CFS-W SG	160/6"
125 ≤ Ø ≤ 160	4.0 - 9.1	CFS-W EL	3

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



Minimum distance between annular gap



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0043

FIRESTOP WRAP

0043\_01

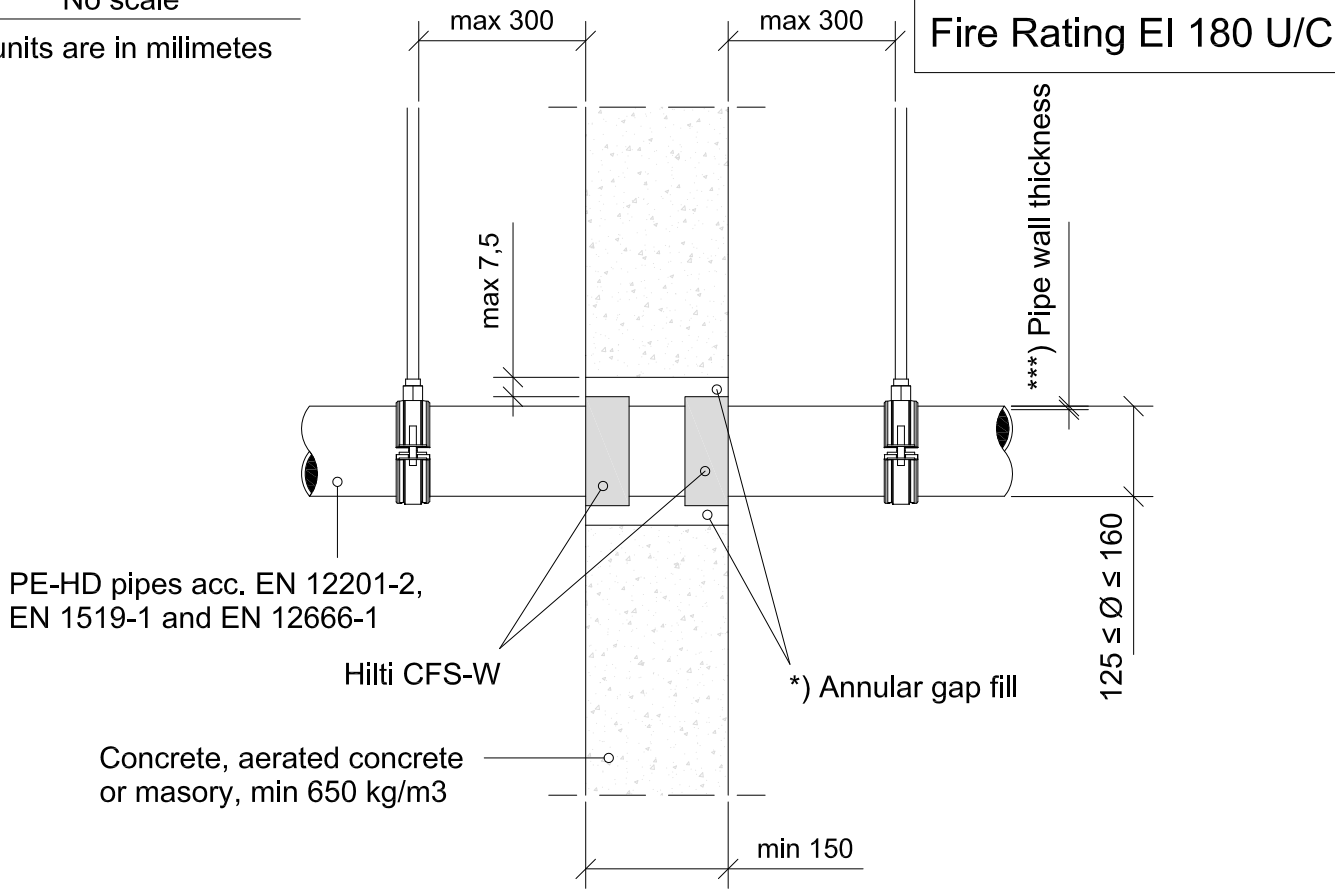
REV

00

No scale

All units are in millimetres

Fire Rating EI 180 U/C



PE-HD pipes acc. EN 12201-2, EN 1519-1 and EN 12666-1

Hilti CFS-W

\*) Annular gap fill

Concrete, aerated concrete or masonry, min 650 kg/m<sup>3</sup>

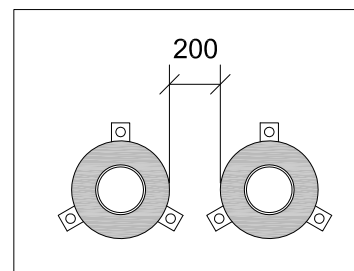
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool
Cementitious mortar over the entire thickness of the wall.

\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	6.2	CFS-W SG	160/6"
125 ≤ Ø ≤ 160	6.2	CFS-W EL	3

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



Minimum distance between annular gap



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0044

FIRESTOP WRAP

0044\_01

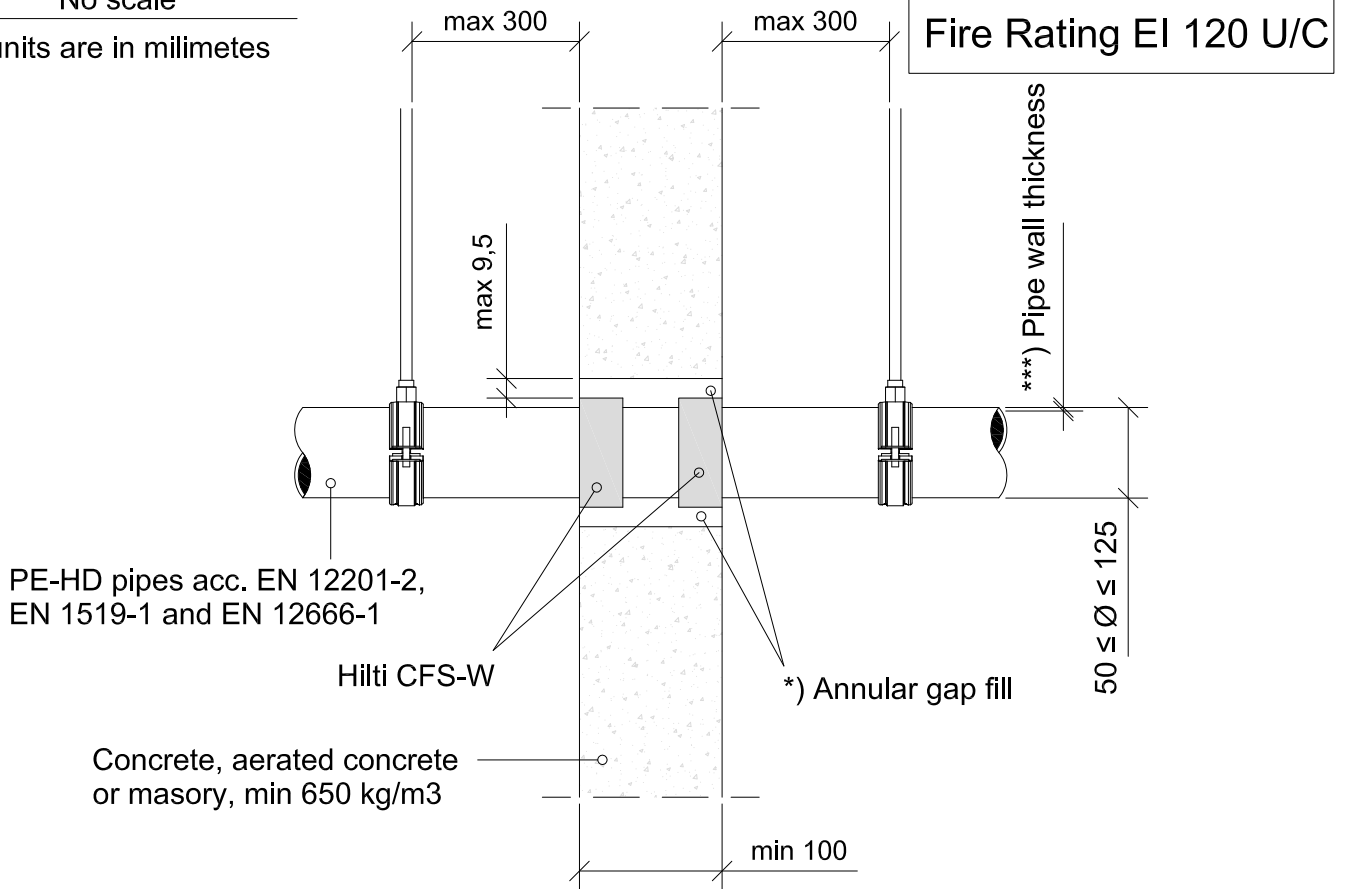
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



PE-HD pipes acc. EN 12201-2, EN 1519-1 and EN 12666-1

Hilti CFS-W

Concrete, aerated concrete or masonry, min 650 kg/m<sup>3</sup>

\*) Annular gap fill

\*\*\*) Pipe wall thickness

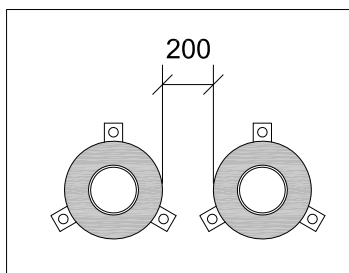
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*\*) Pipe wall thickness



Minimum distance between annular gap

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	3.0	CFS-W SG	50/1.5"
63	3.0	CFS-W SG	63/2"
75	3.0	CFS-W SG	75/2.5"
90	4.8	CFS-W SG	90/3"
90	4.8	CFS-W SG	110/4"
110	4.8	CFS-W SG	125/5"
≤ 75	3.0	CFS-W EL	1
75 ≤ Ø ≤ 125	4.8	CFS-W EL	2



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0064

FIRESTOP WRAP

0064\_01

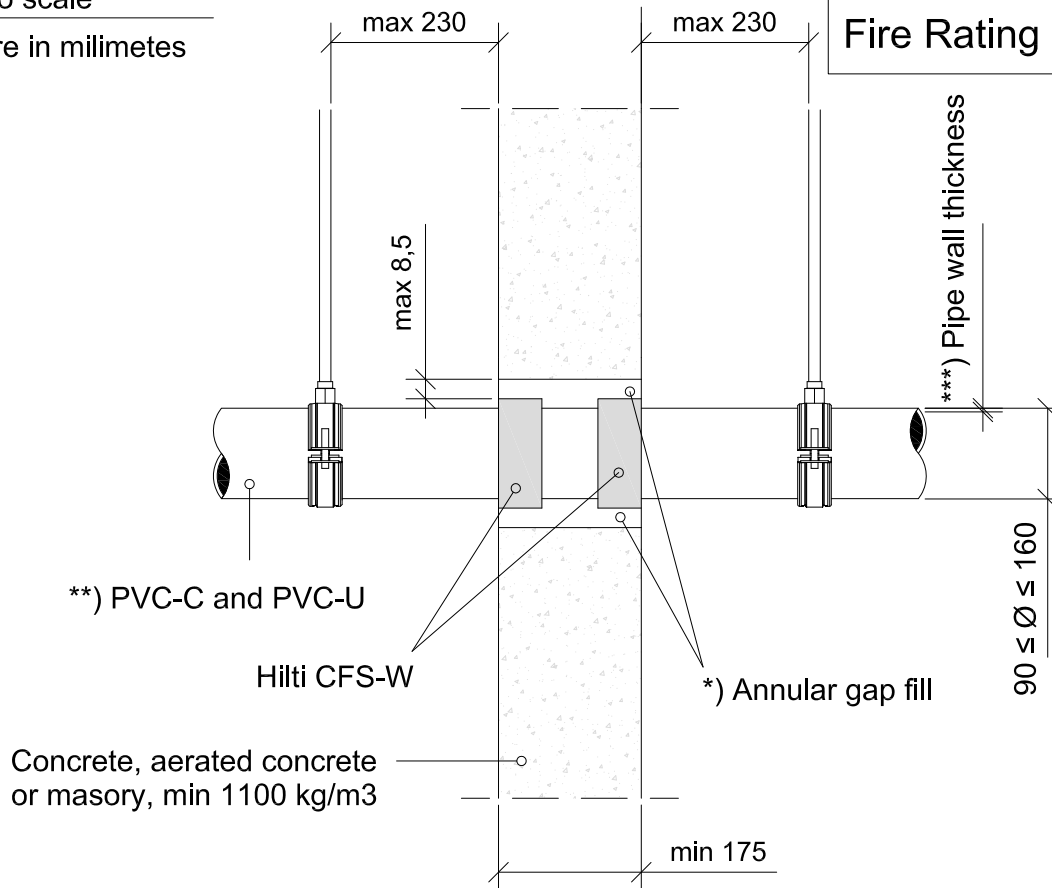
REV

00

No scale

All units are in millimetres

Fire Rating EI 240 U/C



\*\* ) PVC-C and PVC-U

Hilti CFS-W

\*) Annular gap fill

Concrete, aerated concrete or masonry, min 1100 kg/m<sup>3</sup>

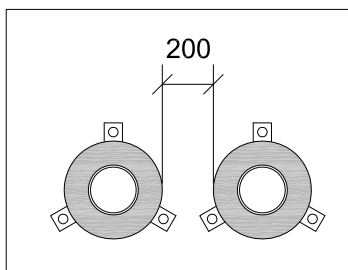
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool
Cementitious mortar over the entire thickness of the wall.

\*\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
90	3.2	CFS-W SG	90/3"
110	3.2	CFS-W SG	110/4"
160	3.2 - 13	CFS-W SG	160/6"
≤ 32	1.8	CFS-W EL	1
75 ≤ Ø ≤ 125	3.2	CFS-W EL	2
125 ≤ Ø ≤ 160	3.2 - 13	CFS-W EL	3



Minimum distance between annular gap

\*\* ) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1





CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0065

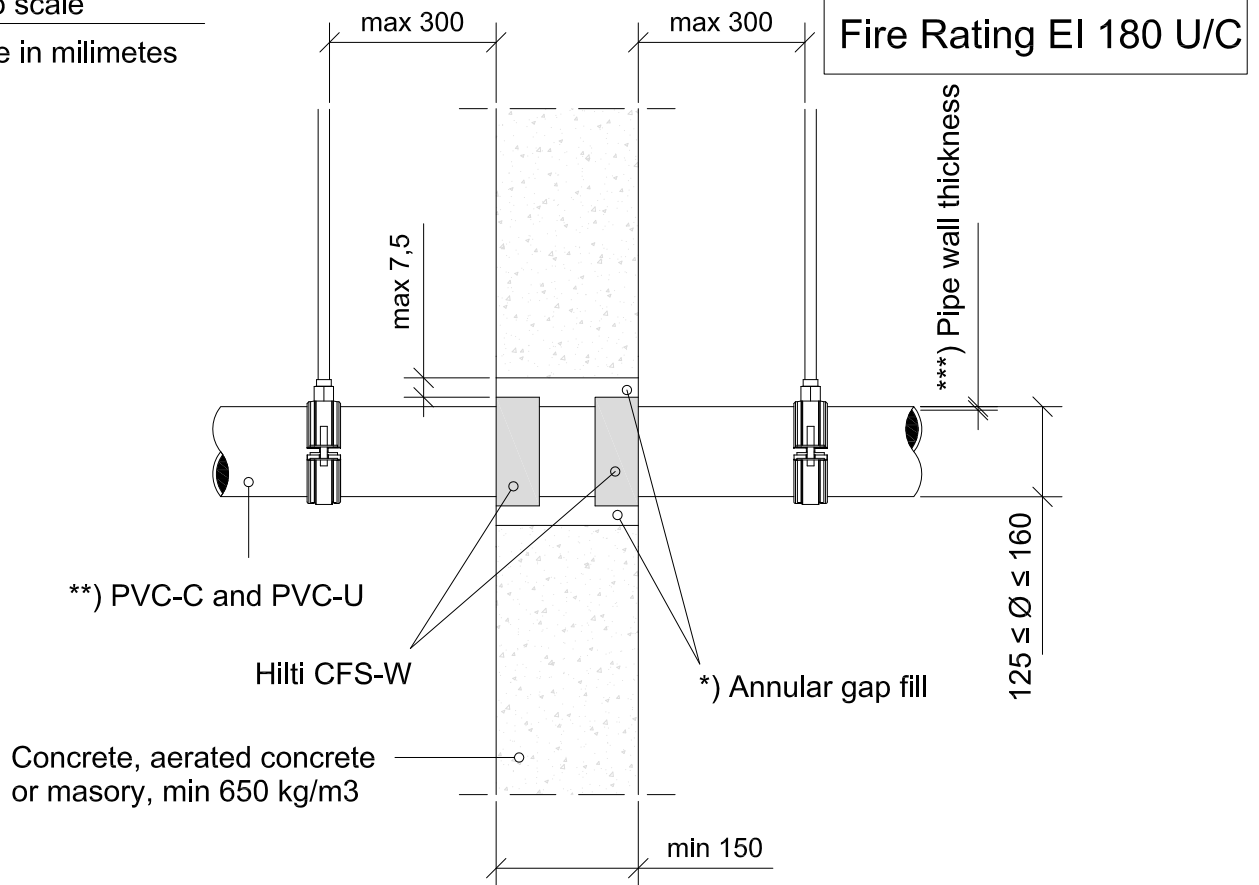
FIRESTOP WRAP

0065\_01

REV  
00

No scale

All units are in millimetres



\*\* ) PVC-C and PVC-U

Hilti CFS-W

Concrete, aerated concrete  
or masonry, min 650 kg/m<sup>3</sup>

\*) Annular gap fill

\*\*\* ) Pipe wall thickness

125 ≤ Ø ≤ 160

min 150

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool
Cementitious mortar over the entire thickness of the wall.

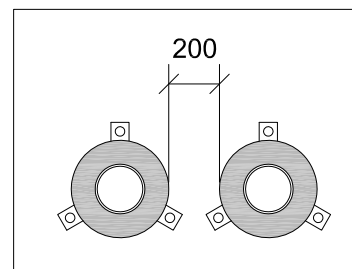
\*\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	2.5 - 11.8	CFS-W SG	160/6"
125 ≤ Ø ≤ 160	2.5 - 11.8	CFS-W EL	3

\*\* ) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1



Minimum distance between annular gap



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0069

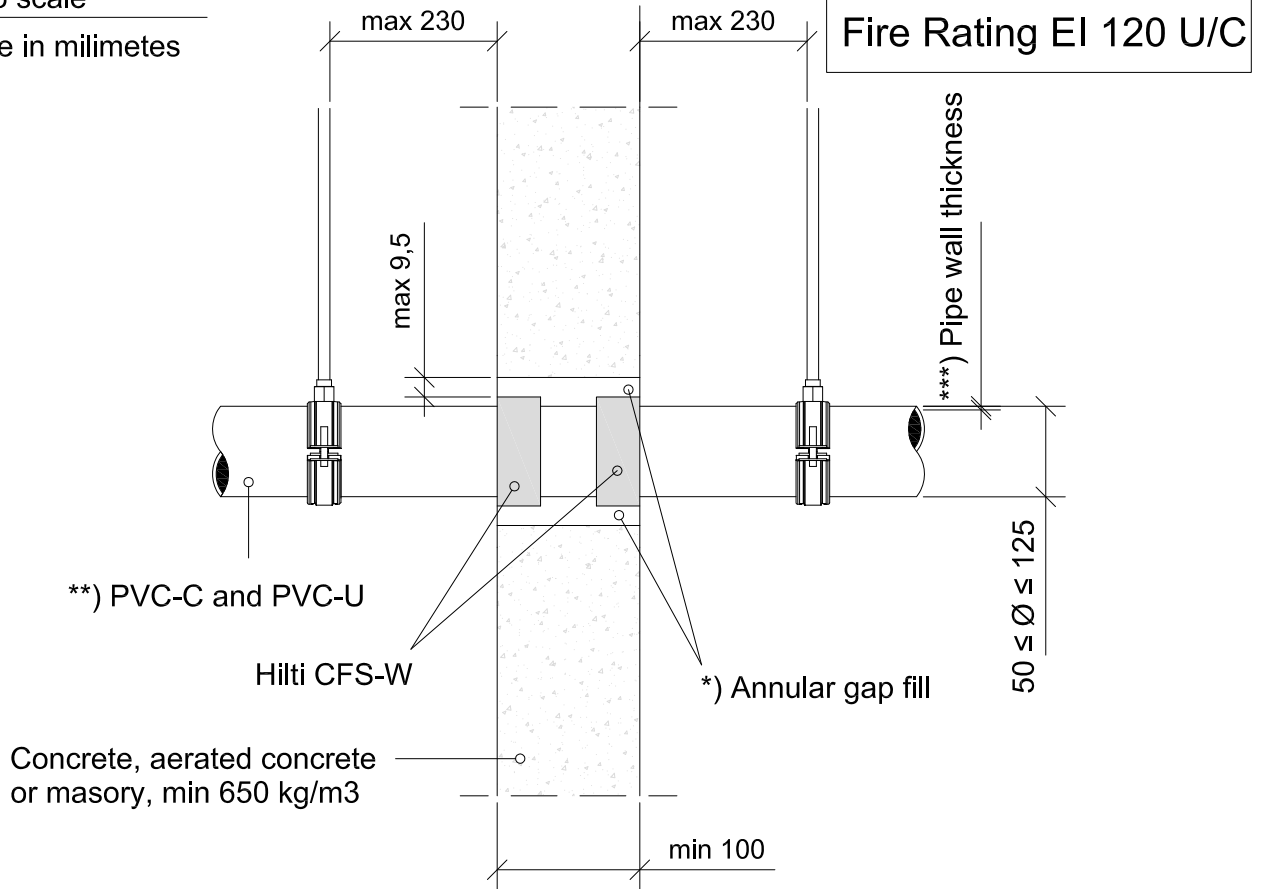
FIRESTOP WRAP

0069\_01

REV  
00

No scale

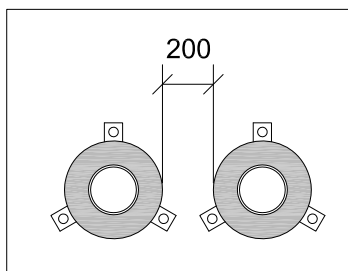
All units are in millimetres



- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool  
Cementious mortar over the entire thickness of the wall.



Minimum distance between annular gap

\*\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	2.2 - 3.6	CFS-W SG	50/1.5"
63	2.2 - 3.6	CFS-W SG	63/2"
75	2.2 - 3.6	CFS-W SG	75/2.5"
90	3.7	CFS-W SG	90/3"
110	3.7	CFS-W SG	110/4"
125	3.7	CFS-W SG	125/5"
≤ 75	2.2 - 3.6	CFS-W EL	1
75 ≤ Ø ≤ 125	3.7	CFS-W EL	2

\*\*) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0070

FIRESTOP WRAP

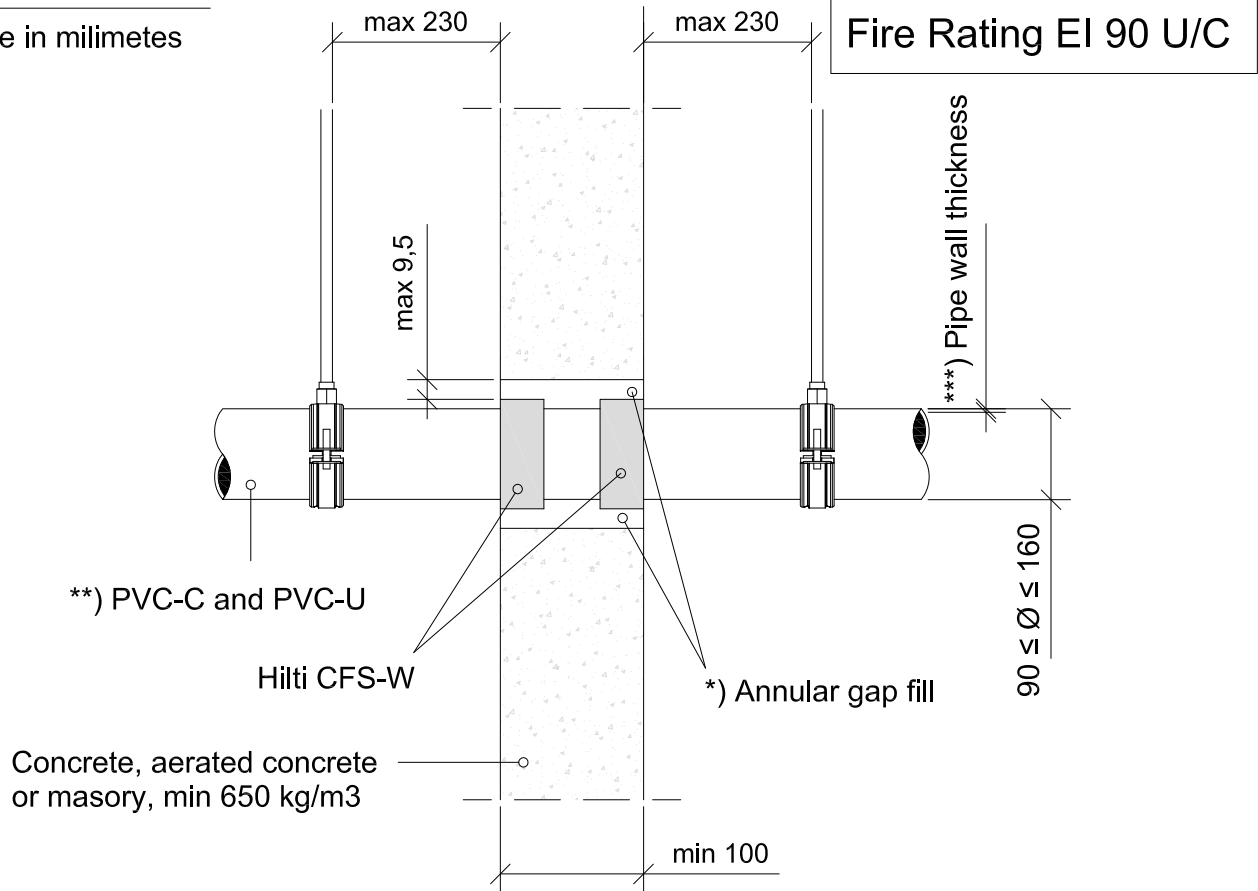
0070\_01

REV

00

No scale

All units are in millimetres



- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

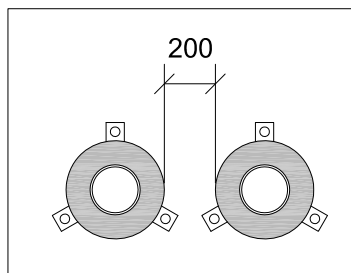
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

\*\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
90	3.7 - 6.0	CFS-W SG	90/3"
110	3.7 - 6.0	CFS-W SG	110/4"
125	3.7 - 6.0	CFS-W SG	125/5"
160	11.8	CFS-W SG	160/6"
75 ≤ Ø ≤ 125	3.7 - 6.0	CFS-W EL	2
160	11.8	CFS-W EL	3



Minimum distance between annular gap

\*\* ) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1



CONTENTS

Straight plastic pipe in a rigid wall

ID

WW-RW-PP-0071

FIRESTOP WRAP

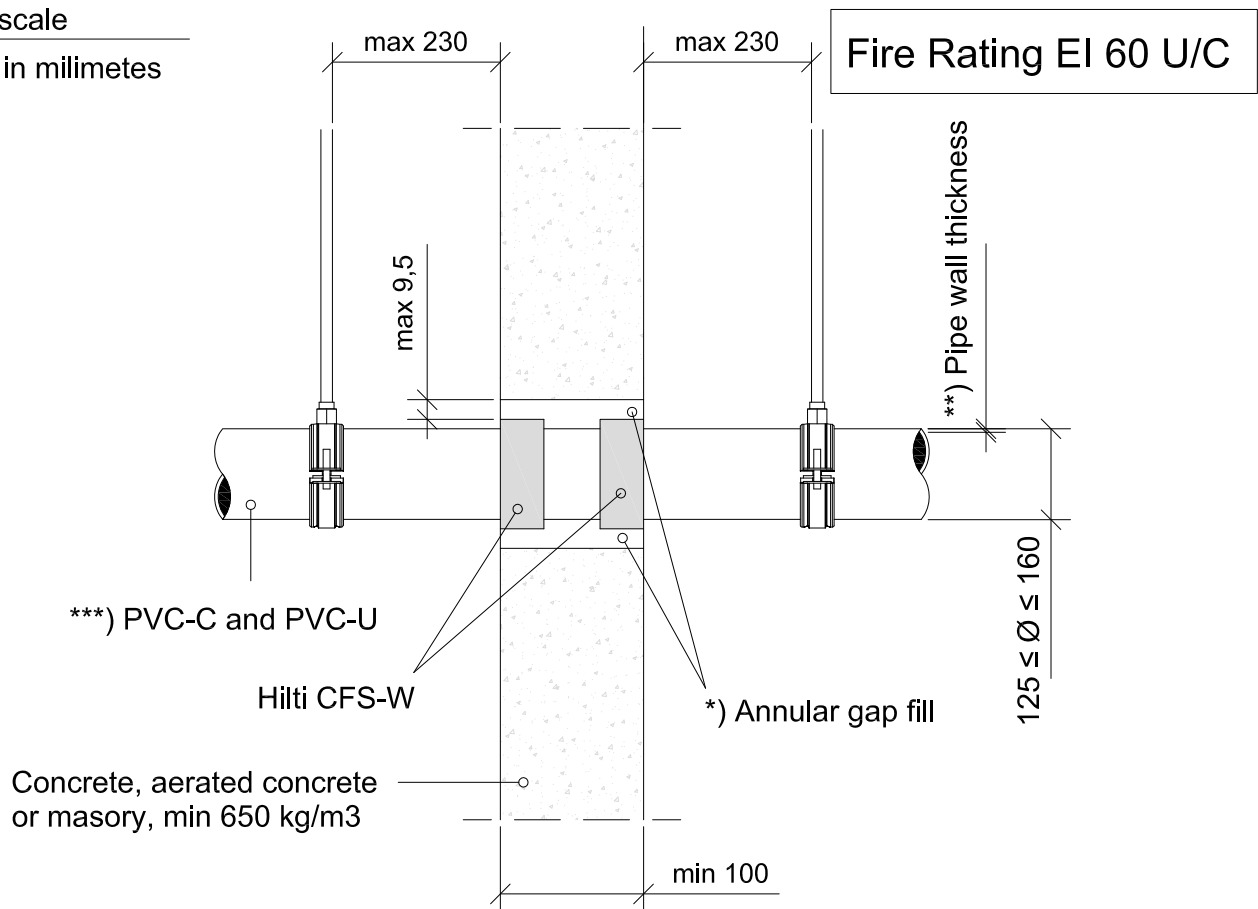
0071\_01

REV

00

No scale

All units are in millimetres



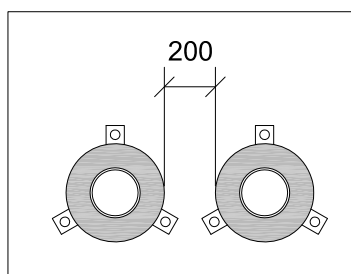
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool
Cementitious mortar over the entire thickness of the wall.

\*\* ) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	2.5 - 11.8	CFS-W SG	160/3"
125 ≤ Ø ≤ 160	2.5 - 11.8	CFS-W EL	3



Minimum distance between annular gap

\*\*\* ) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1



CONTENTS

# Straight plastic pipe in a floor

ID

WW-RF-PP-0072

## FIRESTOP WRAP

0072\_01

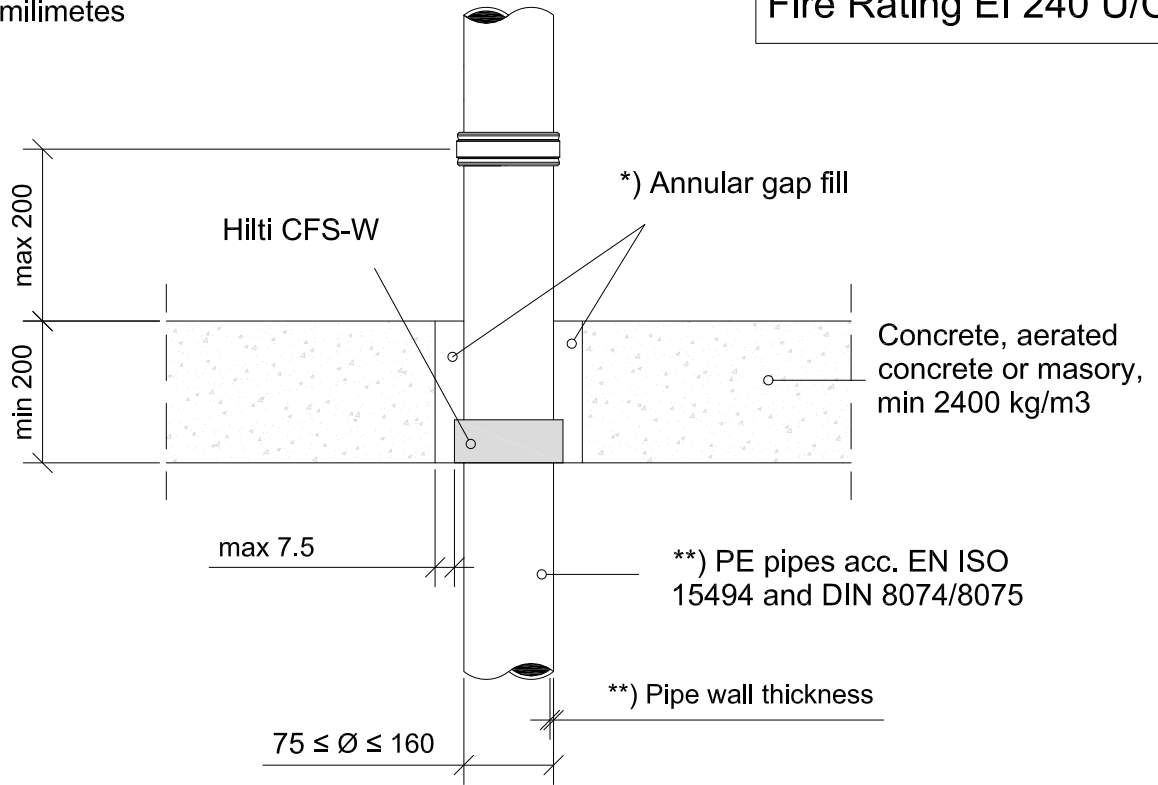
REV

00

No scale

All units are in millimetres

Fire Rating EI 240 U/C



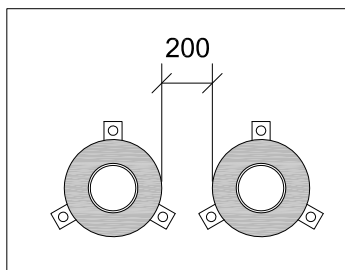
### \*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

### \*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
90	2.7	CFS-W SG	90/3.0"
110	2.7	CFS-W SG	110/4.0"
160	14.6	CFS-W SG	160/6.0"
≤ 32	1.8	CFS-W EL	1
75 ≤ Ø ≤ 110	2.7	CFS-W EL	2
125 ≤ Ø ≤ 160	14.6	CFS-W EL	3



Minimum distance between annular gap

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



CONTENTS

Straight plastic pipe in a floor

ID

WW-RF-PP-0074

FIRESTOP WRAP

0074\_01

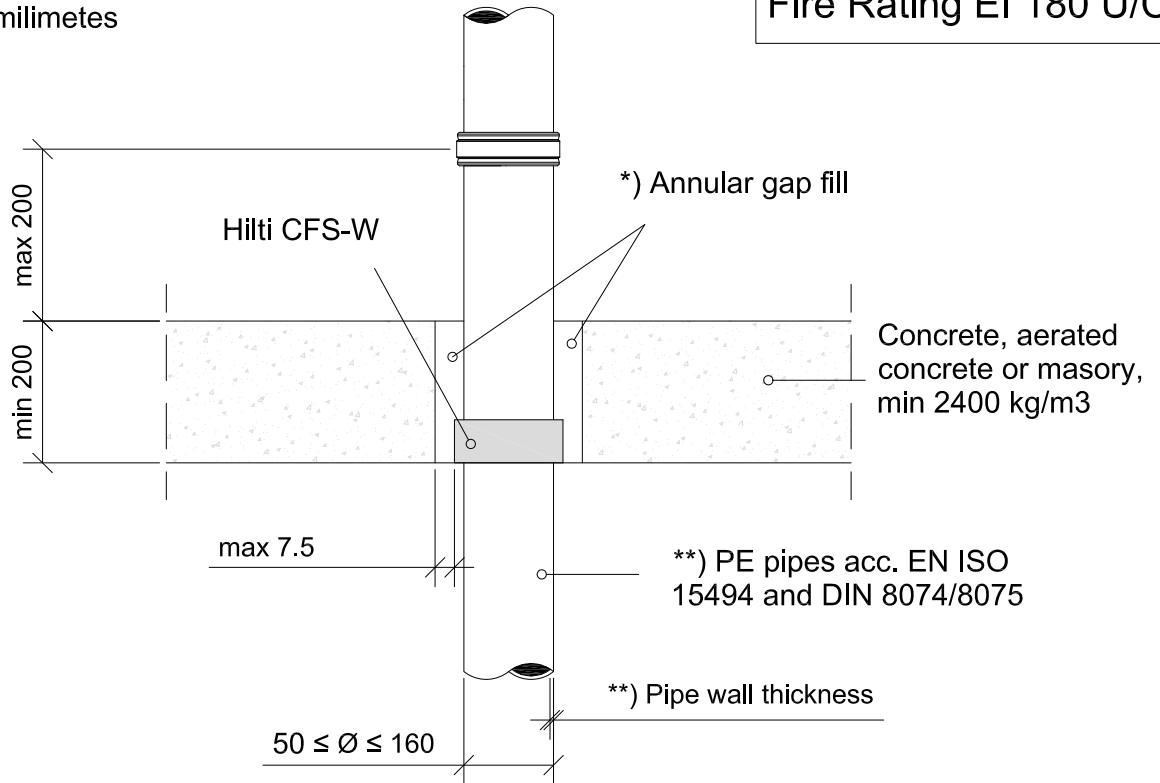
REV

00

No scale

All units are in millimetres

Fire Rating EI 180 U/C



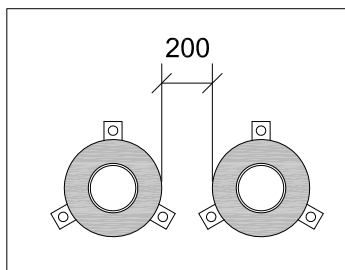
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*) Pipe wall thickness



Minimum distance between annular gap

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	1.9 - 6.8	CFS-W SG	50/1.5"
63	1.9 - 6.8	CFS-W SG	63/2.0"
75	1.9 - 6.8	CFS-W SG	75/2.5"
90	2.7 - 7.1	CFS-W SG	90/3.0"
110	2.7 - 7.1	CFS-W SG	110/4.0"
125	3.2 - 7.1	CFS-W SG	125/5.0"
160	4.0 - 14.6	CFS-W SG	160/6.0"
≤ 75	1.9 - 6.8	CFS-W EL	1
75 ≤ Ø ≤ 125	3.2 - 7.1	CFS-W EL	2
125 ≤ Ø ≤ 160	4.0 - 9.0	CFS-W EL	3



CONTENTS

Straight plastic pipe in a floor

ID

WW-RF-PP-0081

FIRESTOP WRAP

0081\_01

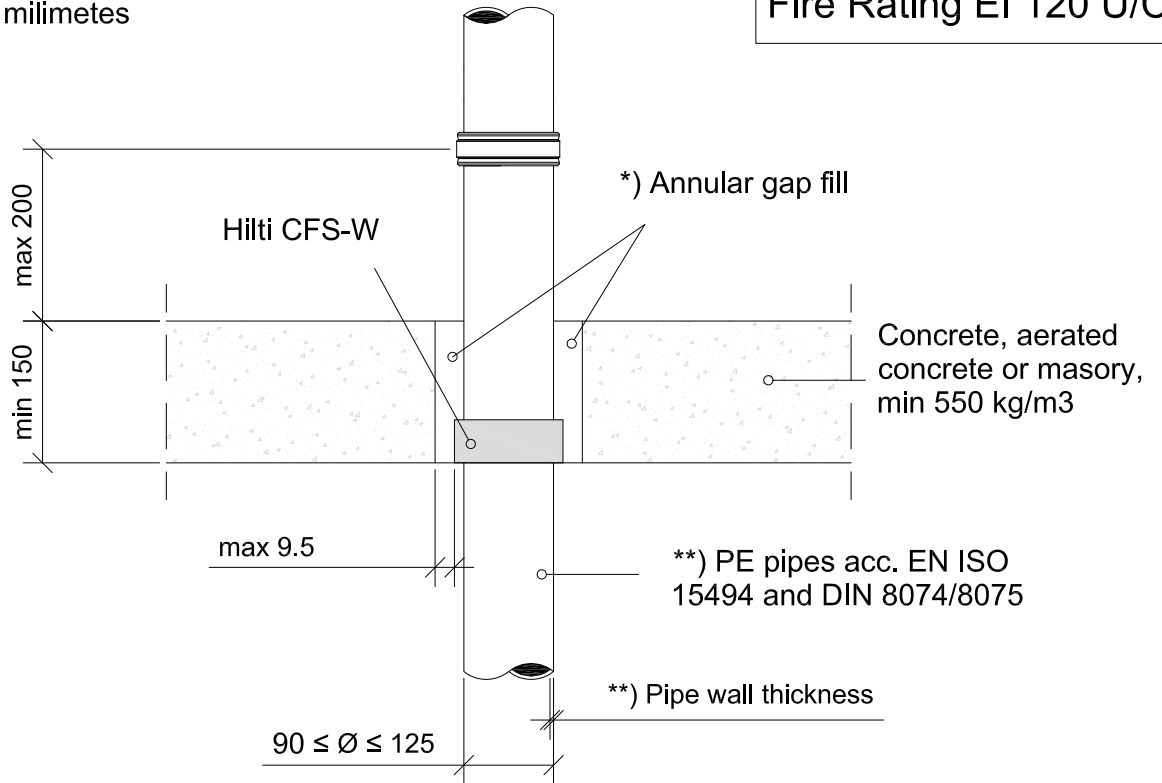
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



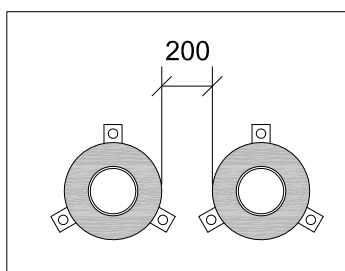
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
90	7.1	CFS-W SG	90/3"
110	7.1	CFS-W SG	110/4"
125	7.1	CFS-W SG	125/5"
75 ≤ Ø ≤ 125	7.1	CFS-W EL	2



Minimum distance between annular gap

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



CONTENTS

Straight plastic pipe in a floor

ID

WW-RF-PP-0083

FIRESTOP WRAP

0083\_01

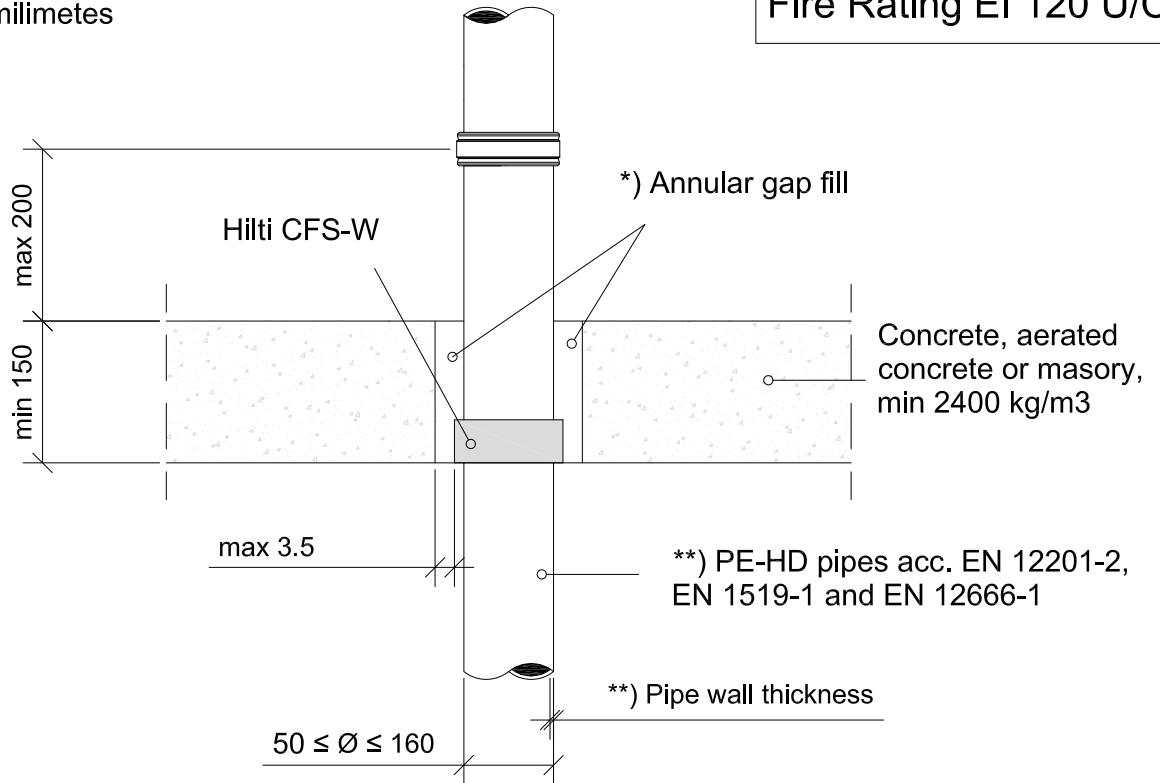
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



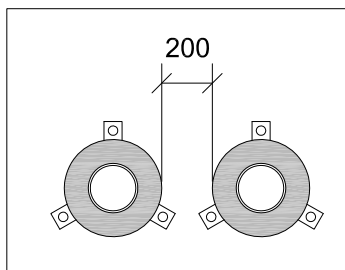
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*\*) Pipe wall thickness



Minimum distance between annular gap

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	3.0	CFS-W SG	50/1.5"
63	3.0	CFS-W SG	63/2.0"
75	3.0	CFS-W SG	75/2.5"
90	4.8	CFS-W SG	90/3.0"
110	4.8	CFS-W SG	110/4.0"
125	4.8	CFS-W SG	125/5.0"
160	6.2	CFS-W SG	160/6.0"
≤ 75	3.0	CFS-W EL	1
75 ≤ Ø ≤ 125	4.8	CFS-W EL	2
125 ≤ Ø ≤ 160	6.2	CFS-W EL	3





CONTENTS

Straight plastic pipe in a floor

ID

WW-RF-PP-0106

FIRESTOP WRAP

0106\_01

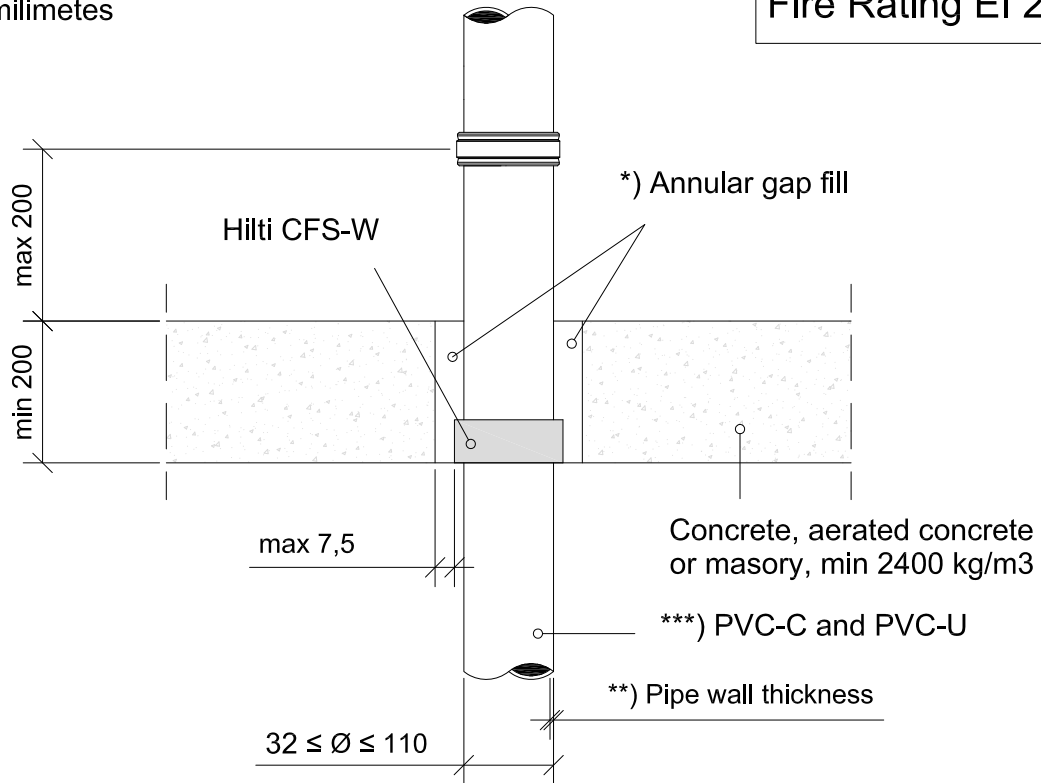
REV

00

No scale

All units are in millimetres

Fire Rating EI 240 U/C

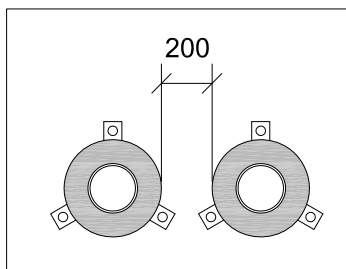


\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool  
Cementitious mortar over the entire thickness of the wall.

\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
90	3.2	CFS-W SG	90/3"
110	3.2	CFS-W SG	110/4"
≤ 32	1.8	CFS-W EL	1
75 ≤ Ø ≤ 110	3.2	CFS-W EL	2



Minimum distance between annular gap

\*\*\*) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



CONTENTS

# Straight plastic pipe in a floor

ID

WW-RF-PP-0108

## FIRESTOP WRAP

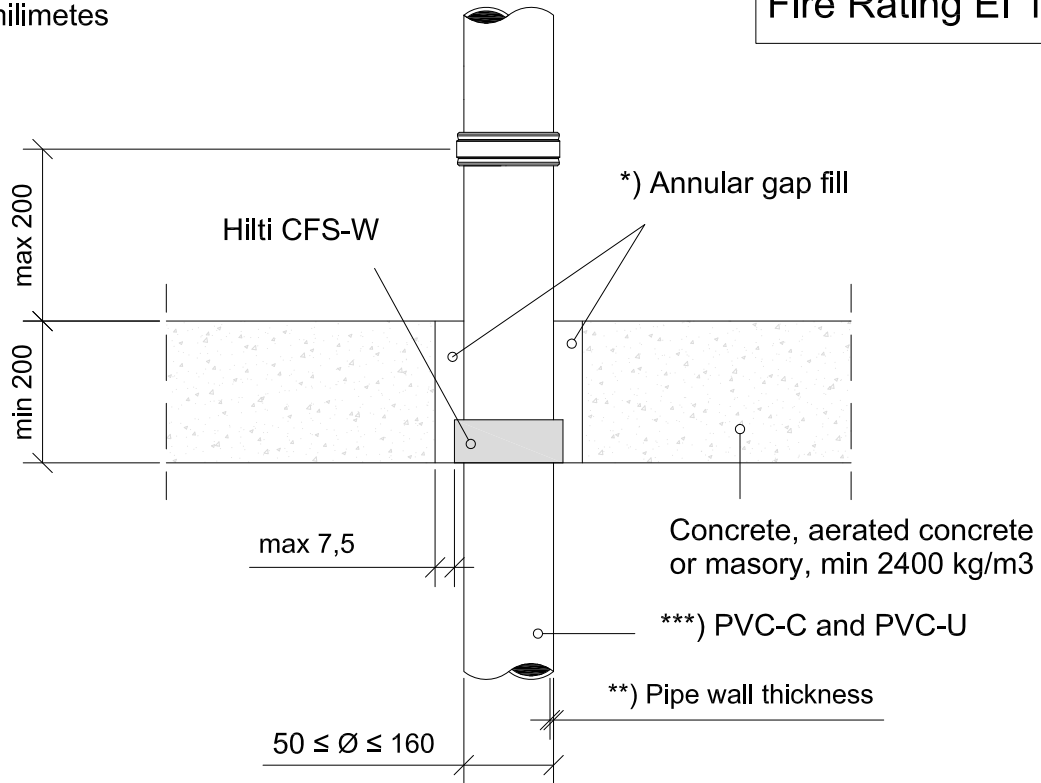
0108\_01

REV  
00

No scale

All units are in millimetres

Fire Rating EI 180 U/C

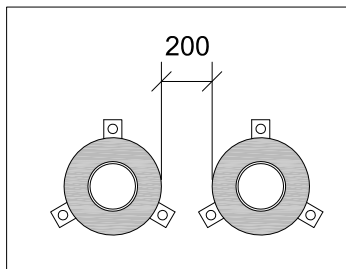


- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

### \*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.



Minimum distance between annular gap

### \*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
50	2.2 - 3.6	CFS-W SG	50/1.5"
63	2.2 - 3.6	CFS-W SG	63/2.0"
75	2.2 - 3.6	CFS-W SG	75/2.5"
90	3.2 - 6.0	CFS-W SG	90/3.0"
110	3.2 - 6.0	CFS-W SG	110/4.0"
125	3.7 - 6.0	CFS-W SG	125/5.0"
160	11.8	CFS-W SG	160/6.0"
≤ 75	2.2 - 3.6	CFS-W EL	1
75 ≤ Ø ≤ 125	3.7 - 6.0	CFS-W EL	2
125 ≤ Ø ≤ 160	11.8	CFS-W EL	3

### \*\*\*) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1



CONTENTS

Straight plastic pipe in a floor

ID

WW-RF-PP-0112

FIRESTOP WRAP

0112\_01

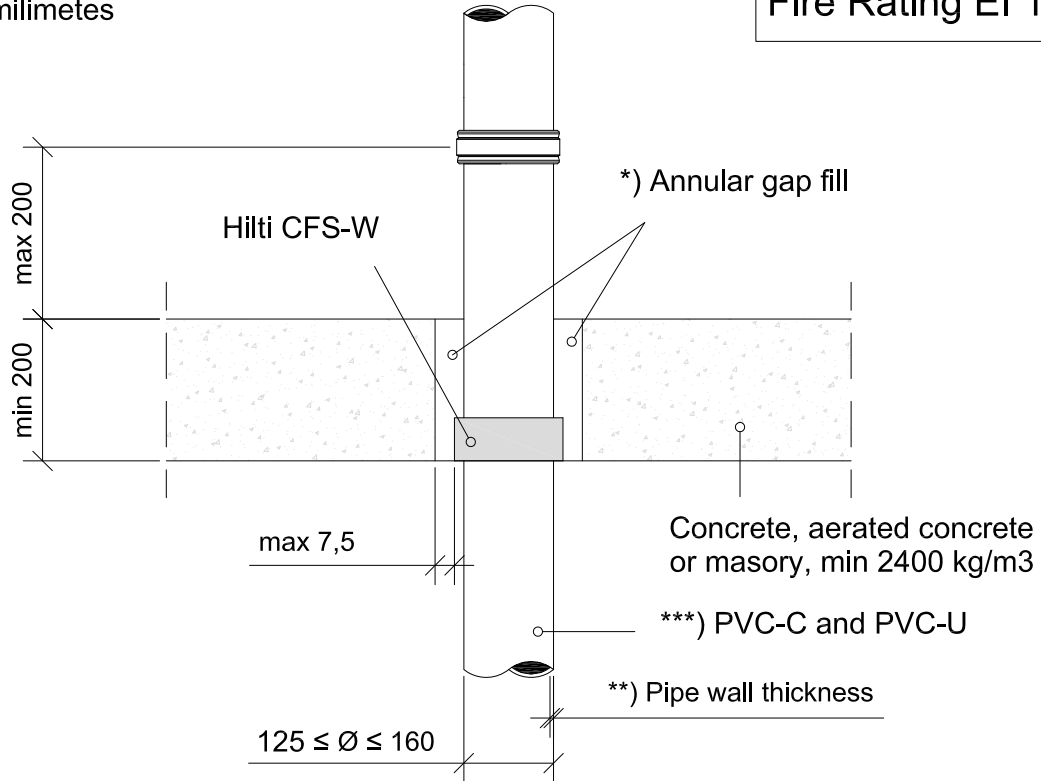
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C

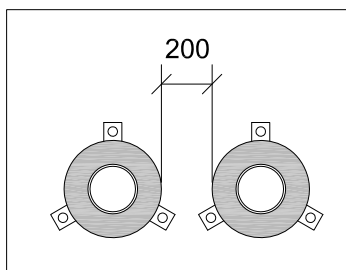


\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool
Cementitious mortar over the entire thickness of the wall.

\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	3.2 - 11.8	CFS-W SG	160/6"
160	11.8 - 13	CFS-W SG	160/6"
125 ≤ Ø ≤ 160	3.2 - 11.8	CFS-W EL	3
125 ≤ Ø ≤ 160	11.8 - 13	CFS-W EL	3



Minimum distance between annular gap

\*\*\*) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



CONTENTS

# Straight plastic pipe in a floor

ID

WW-RF-PP-0113

## FIRESTOP WRAP

0113\_01

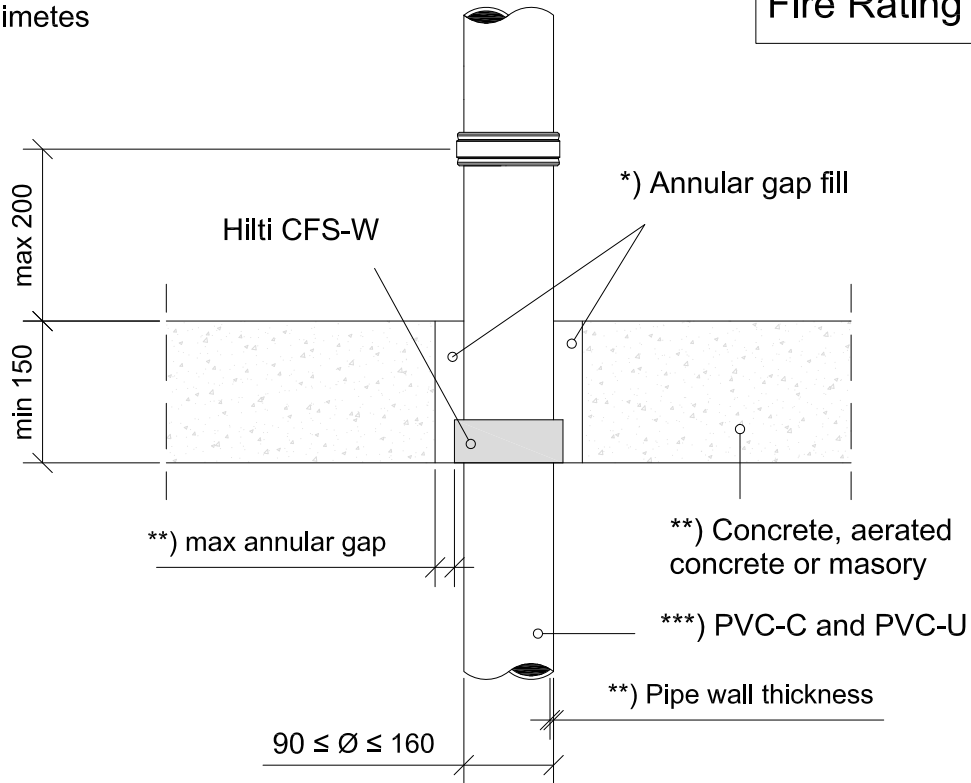
REV

00

No scale

All units are in millimetres

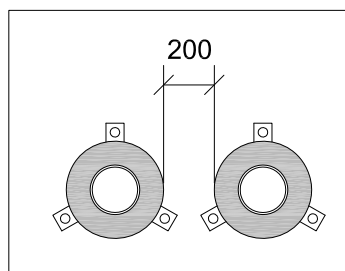
Fire Rating EI 120 U/C



\*\*\*) Pipe wall thickness

Min density	Pipe diameter	Pipe wall thickness	Maximum annular gap	Type of wrap	Size CFS-W SG n° layers CFS-W EL
550	90	3.7 - 6.0	9.5	CFS-W SG	90/3.0"
	110	3.7 - 6.0		CFS-W SG	110/4"
	125	3.7 - 6.0		CFS-W SG	125/5"
	160	3.2 - 4.0		CFS-W SG	160/6"
	75 ≤ Ø ≤ 125	3.7 - 6.0		CFS-W EL	2
	125 ≤ Ø ≤ 160	4.0	CFS-W EL	3	
2400	160	3.2 - 4.0	1.5	CFS-W SG	160/6"
	125 ≤ Ø ≤ 160	3.2 - 4.0		CFS-W EL	3
	125 ≤ Ø ≤ 160	3.7 - 6.0	9.5	CFS-W EL	2

\*') Annular gap fill material



- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

\*\*\*) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1

Minimum distance between annular gap



CONTENTS

Straight plastic pipe in a floor

ID

WW-RF-PP-0117

FIRESTOP WRAP

0117\_01

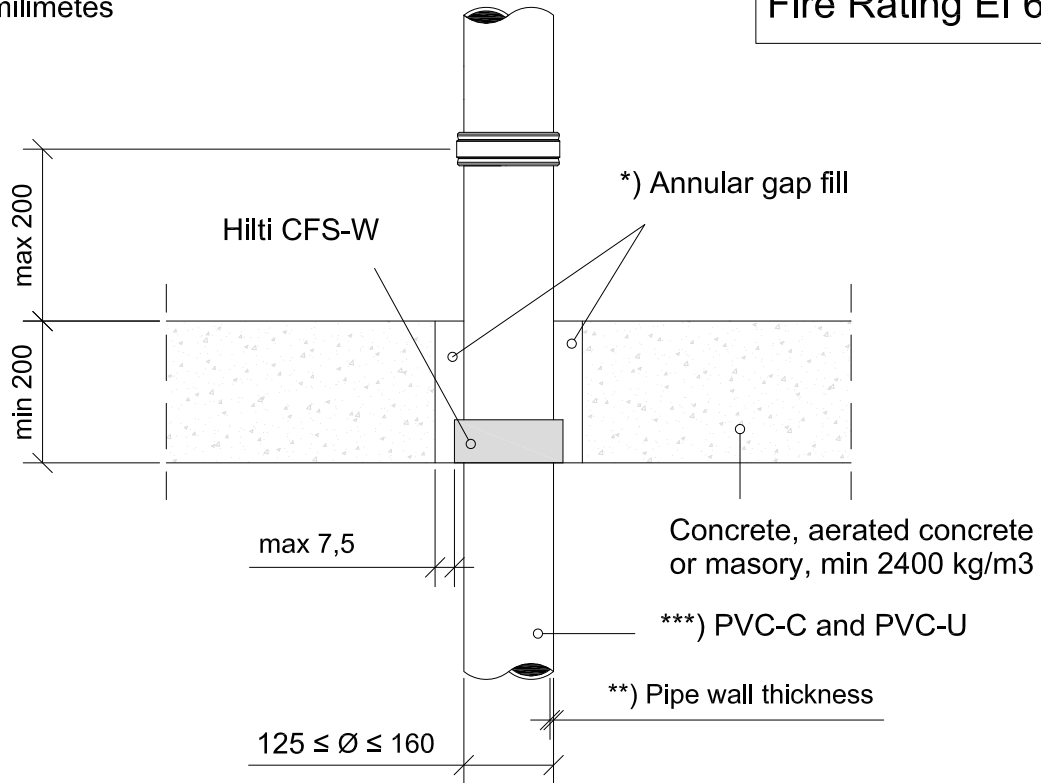
REV

00

No scale

All units are in millimetres

Fire Rating EI 60 U/C



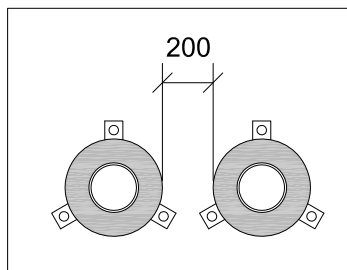
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

Cementitious mortar over the entire thickness of the wall.

\*\*) Pipe wall thickness

Pipe diameter	Pipe wall thickness	Type of wrap	Size CFS-W SG n° layers CFS-W EL
160	2.5 - 3.2	CFS-W SG	160/6"
125 ≤ Ø ≤ 160	2.5 - 3.2	CFS-W EL	3



Minimum distance between annular gap

\*\*\*) Pipes cover

PVC-U Pipes in accordance with EN ISO 1452, EN ISO 15493, DIN 8061/8062, EN 1453-1 and EN 1329-1

PVC-C Pipes in accordance with EN 1566-1

- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions