

Schémas d'applications pour la bande CFS-W



Applications pour drainage eaux pluviales

- Tube plastique PE en cloison épaisseur 100 mm ROOF-FW-PP-0004/5/7
- Tube plastique PE-HD en cloison épaisseur 100 mm ROOF-FW-PP-0008
- Tube plastique PE en voile rigide épaisseur 175 mm ROOF-RW-PP-0025
- Tube plastique PE en voile rigide épaisseur 150 mm ROOF-RW-PP-0026
- Tube plastique PE en voile rigide épaisseur 100 mm ROOF-RW-PP-0030/31/32
- Tube plastique PE-HD en voile rigide épaisseur 150 mm ROOF-RW-PP-0033
- Tube plastique PE-HD en voile rigide épaisseur 100 mm ROOF-RW-PP-0034
- Tube plastique PE en dalle rigide épaisseur 200 mm ROOF-RF-PP-0053/55
- Tube plastique PE en dalle rigide épaisseur 150 mm ROOF-RF-PP-0058
- Tube plastique PE-HD en dalle rigide épaisseur 150 mm ROOF-RF-PP-0060

- Tube plastique PVC en cloison épaisseur 100 mm ROOF-FW-PP-0022/23/24
- Tube plastique PVC en voile rigide épaisseur 175 mm ROOF-RW-PP-0047
- Tube plastique PVC en voile rigide épaisseur 150 mm ROOF-RW-PP-0048
- Tube plastique PVC en voile rigide épaisseur 100 mm ROOF-RW-PP-0050/51/52
- Tube plastique PVC en dalle rigide épaisseur 150 mm ROOF-RF-PP-0077/83
- Tube plastique PVC en dalle rigide épaisseur 200 mm ROOF-RF-PP-0079/82/84

*) 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

ROOF-FW-PP-0004

FIRESTOP WRAP

0004_01

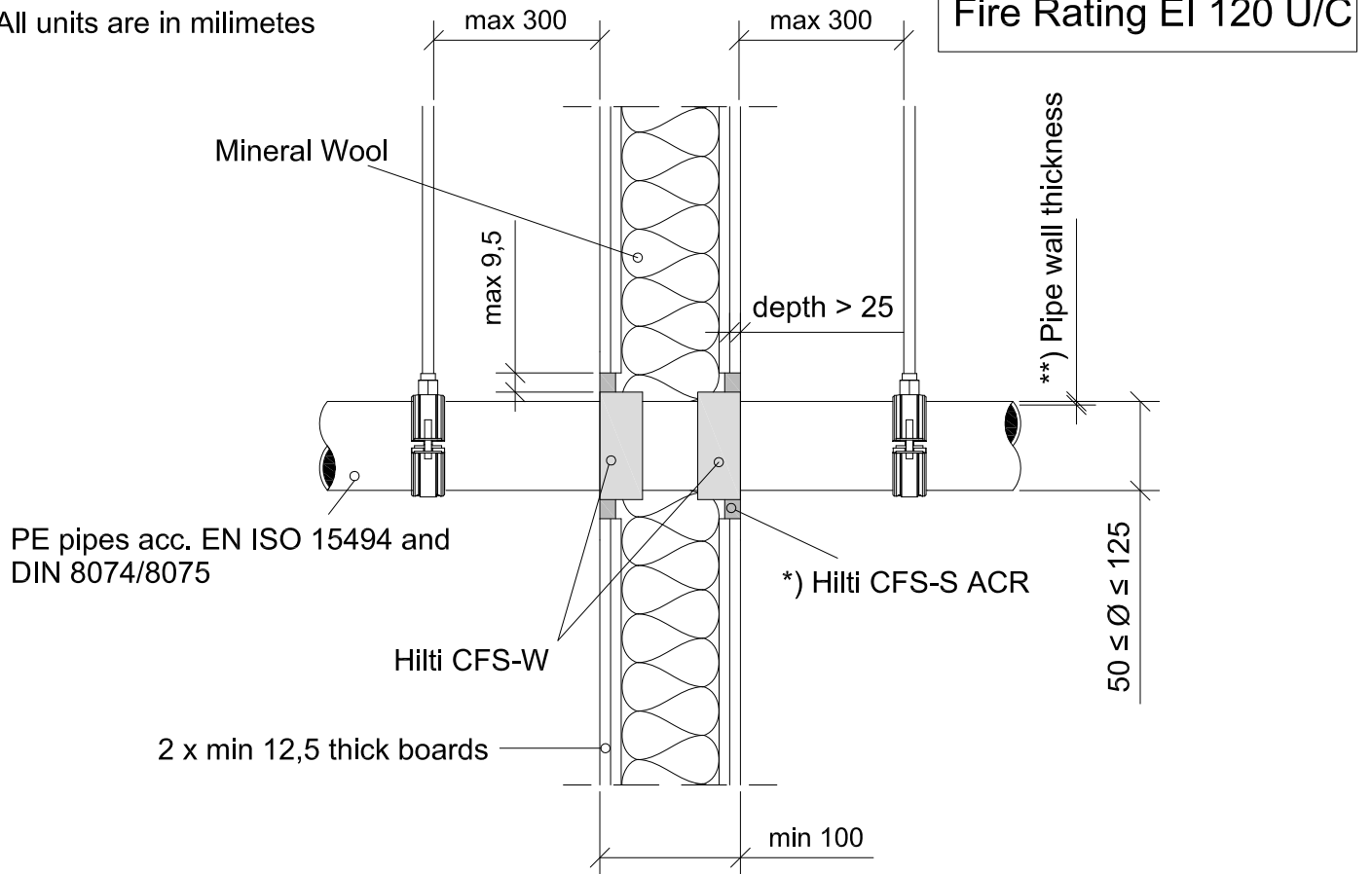
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C

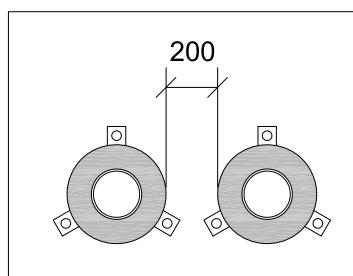


*) Annular gap fill material

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/m³ 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

ROOF-FW-PP-0005

FIRESTOP WRAP

0005_01

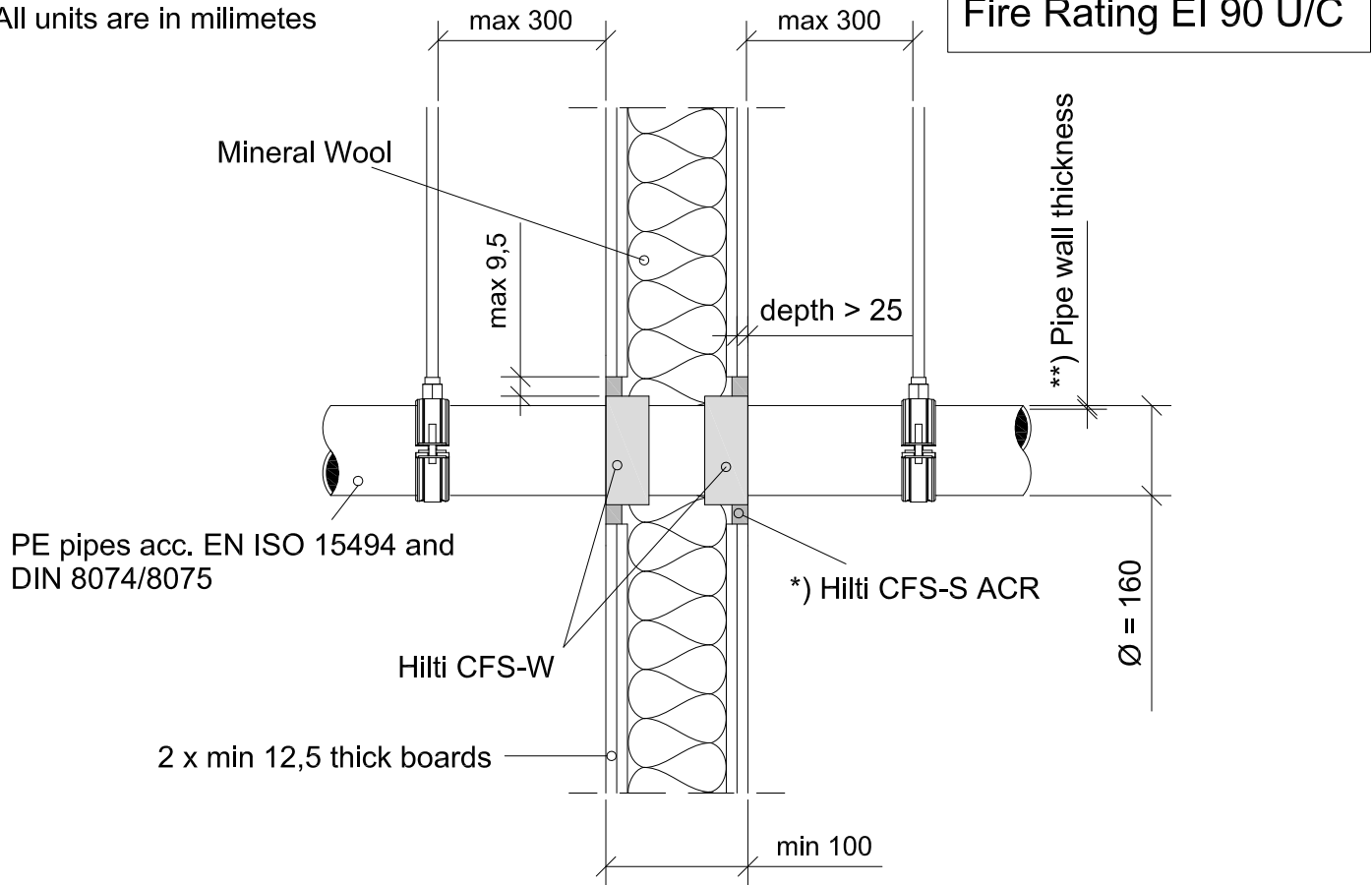
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 U/C



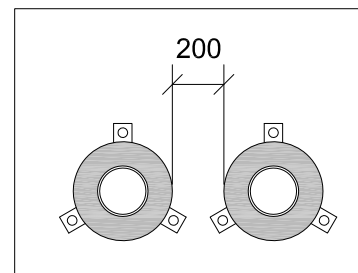
*) Annular gap fill material

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/m³ 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

- 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 flexible wall

ID

ROOF-FW-PP-0007

FIRESTOP WRAP

0007_01

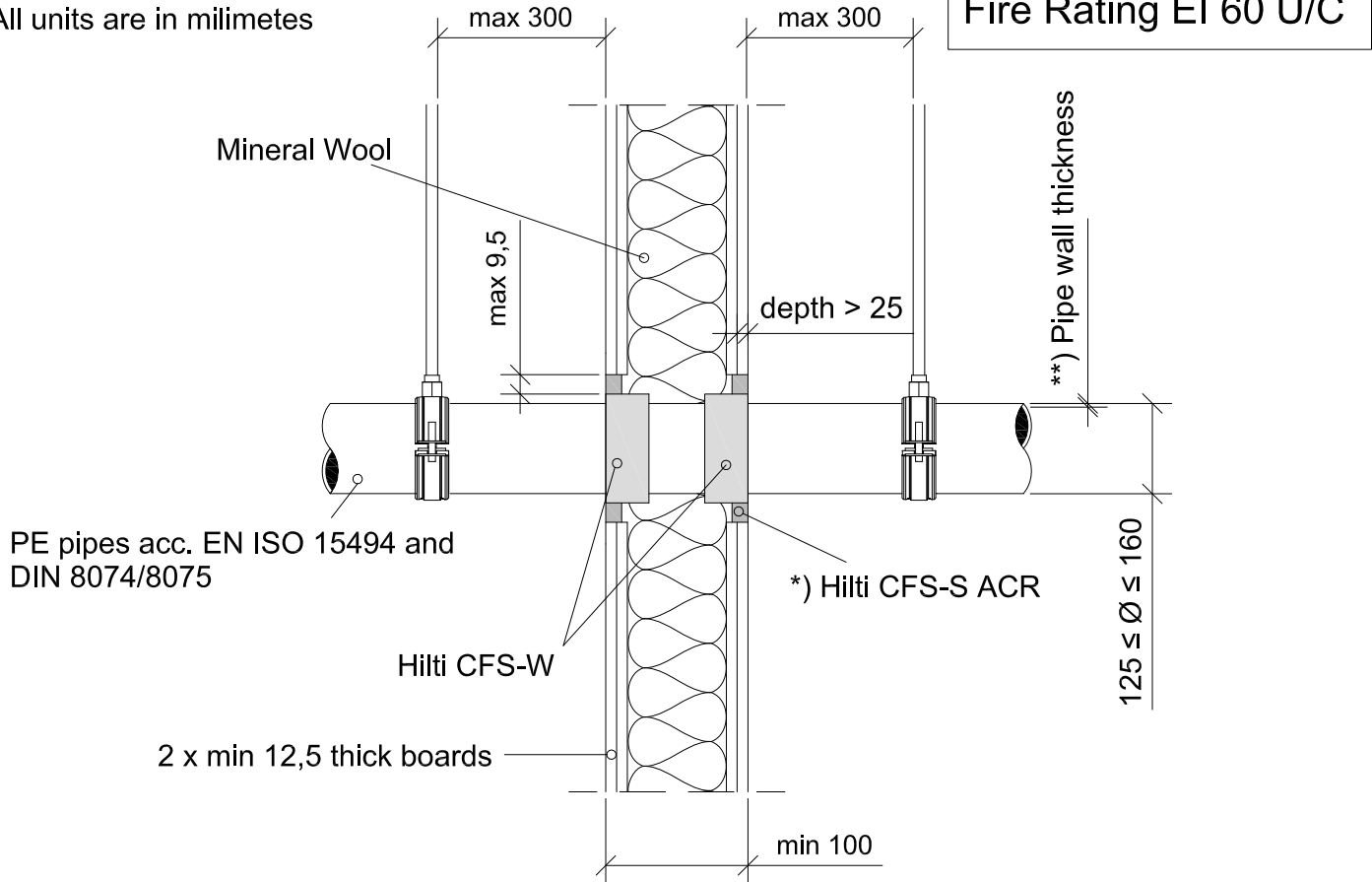
REV

00

No scale

All units are in millimetres

Fire Rating EI 60 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

125 ≤ Ø ≤ 160

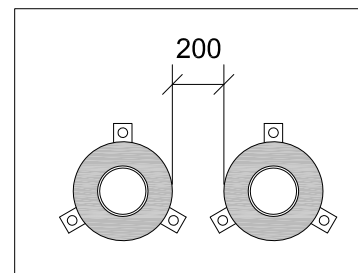
*) Annular gap fill material

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/m³ 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

- 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 flexible wall

ID

ROOF-FW-PP-0008

FIRESTOP WRAP

0008_01

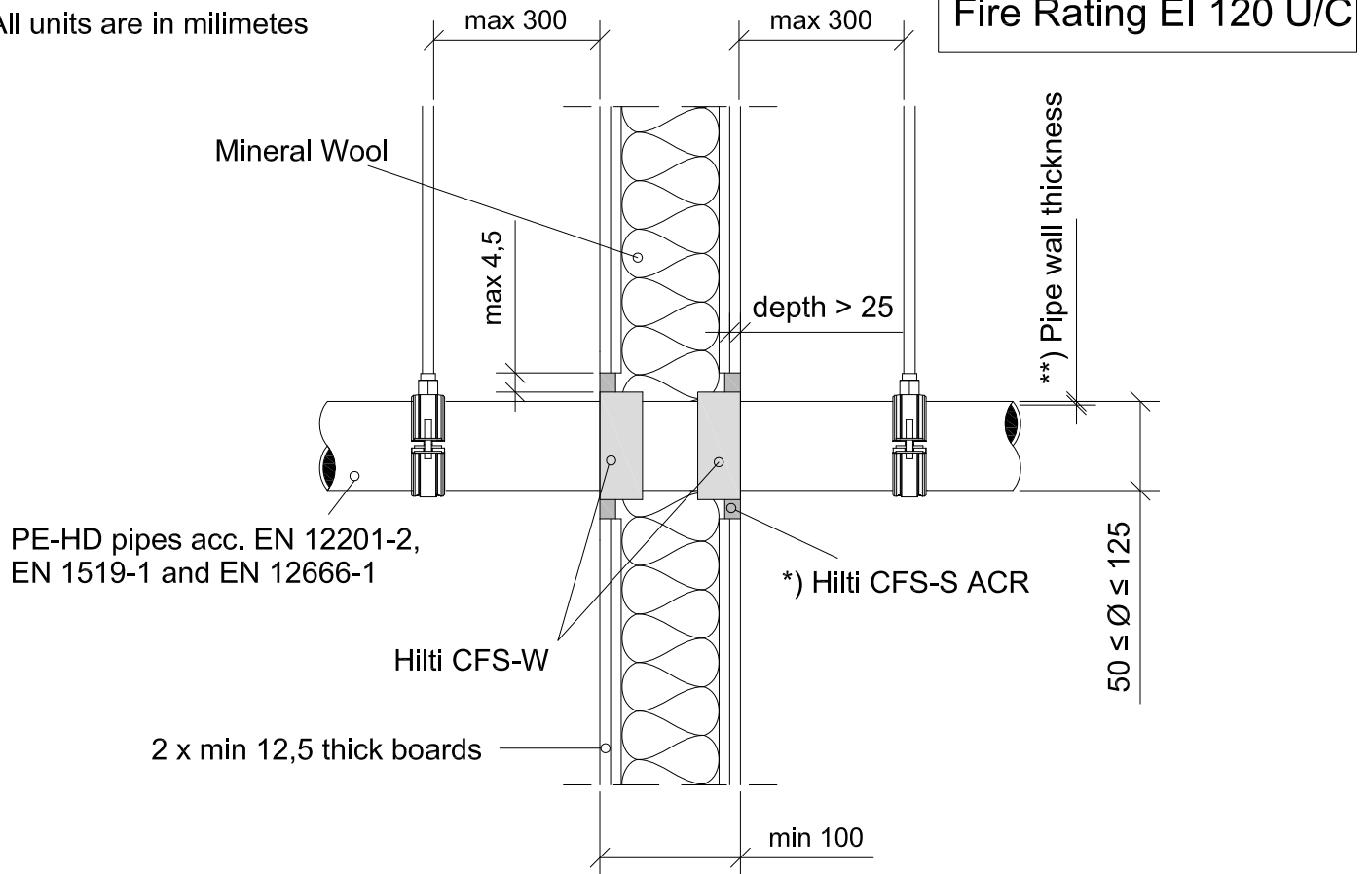
REV

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-S ACR

Hilti CFS-W

2 x min 12,5 thick boards

**.) Pipe wall thickness

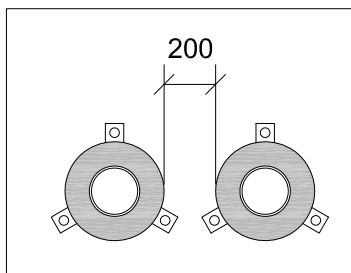
50 ≤ Ø ≤ 125

*) 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/m³ 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

ROOF-FW-PP-0022

FIRESTOP WRAP

0022_01

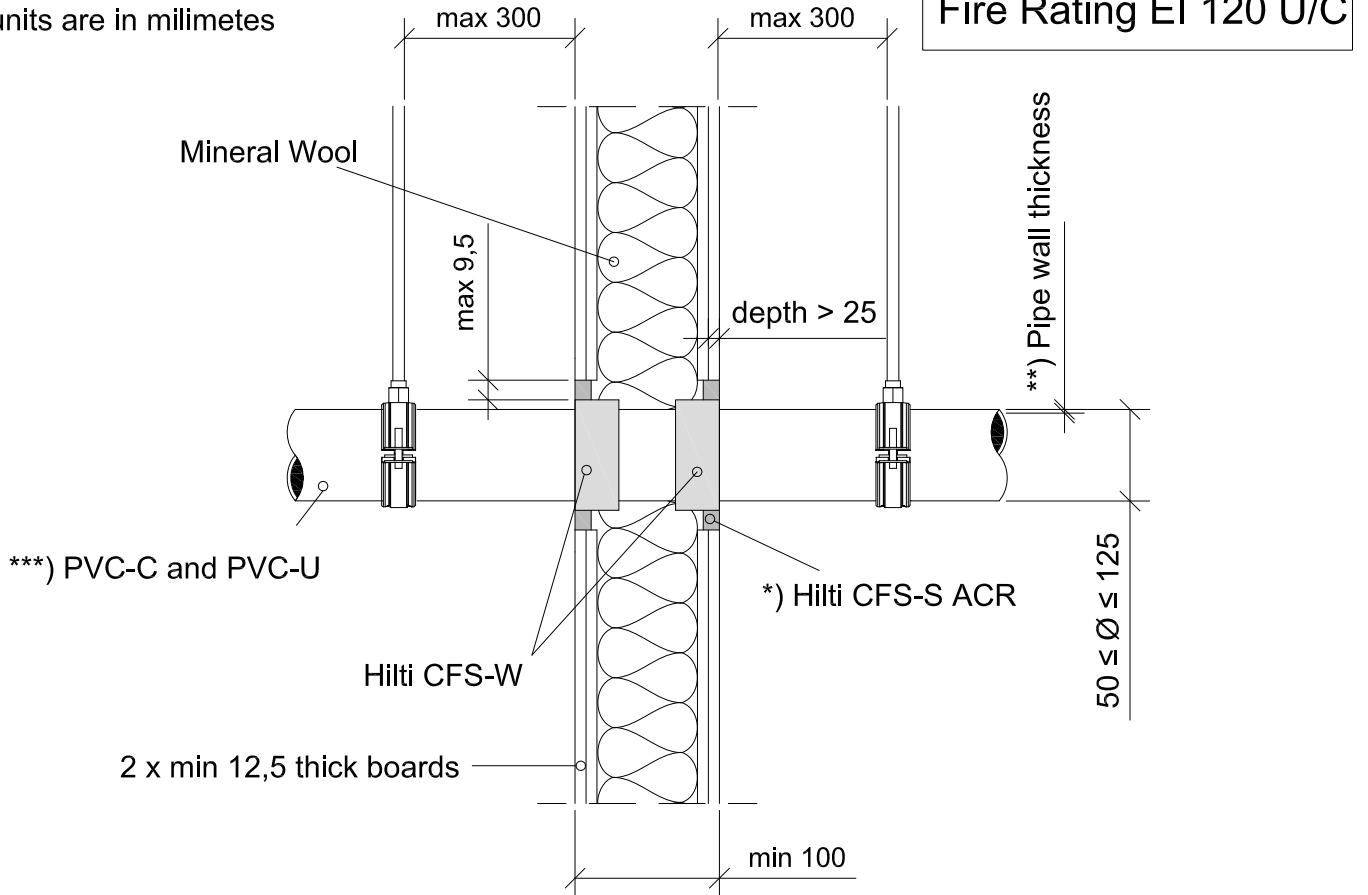
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



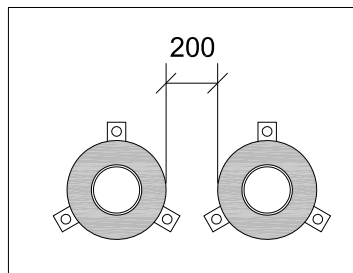
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

*) 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/m³ 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

ROOF-FW-PP-0023

FIRESTOP WRAP

0023_01

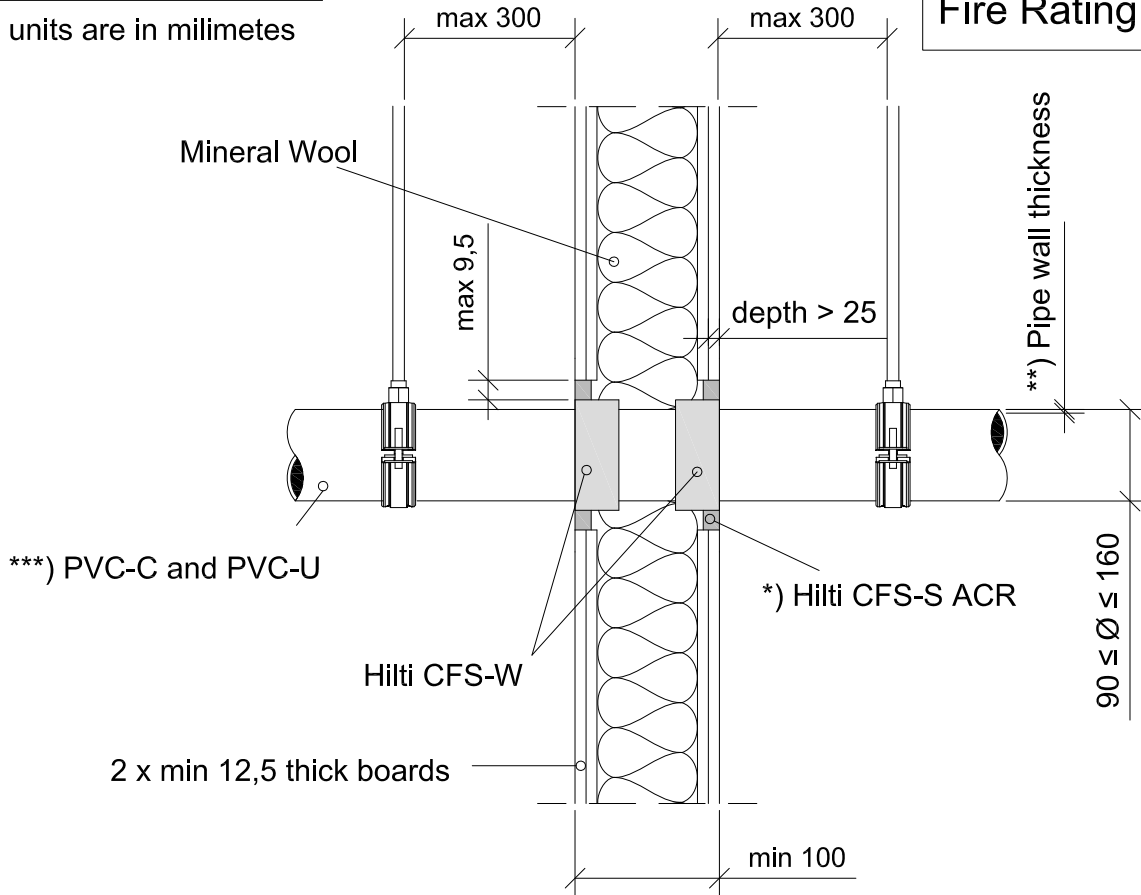
REV

00

No scale

All units are in millimetres

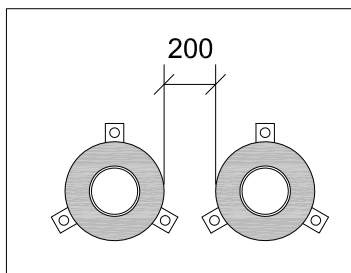
Fire Rating EI 90 U/C



- 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/m³ in the gap between the wall lining around the opening with a depth > 100 mm



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
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

***)) 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

ROOF-FW-PP-0024

FIRESTOP WRAP

0024_01

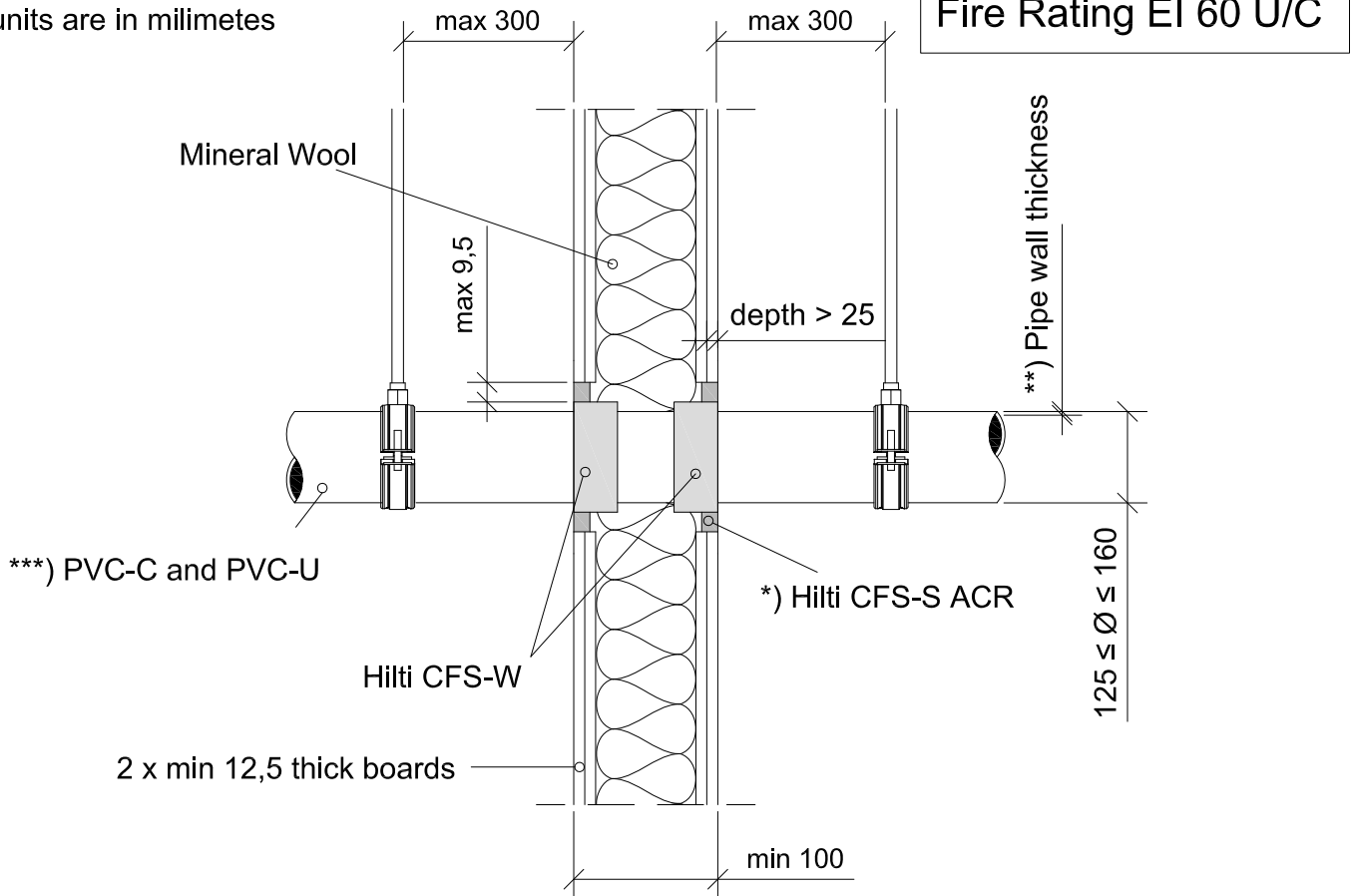
REV

00

No scale

All units are in millimetres

Fire Rating EI 60 U/C



***) PVC-C and PVC-U

*) Hilti CFS-S ACR

Hilti CFS-W

2 x min 12,5 thick boards

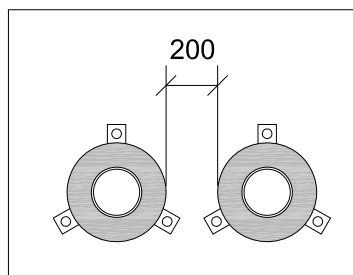
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

*) 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/m³ 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

ROOF-RW-PP-0025

FIRESTOP WRAP

0025_01

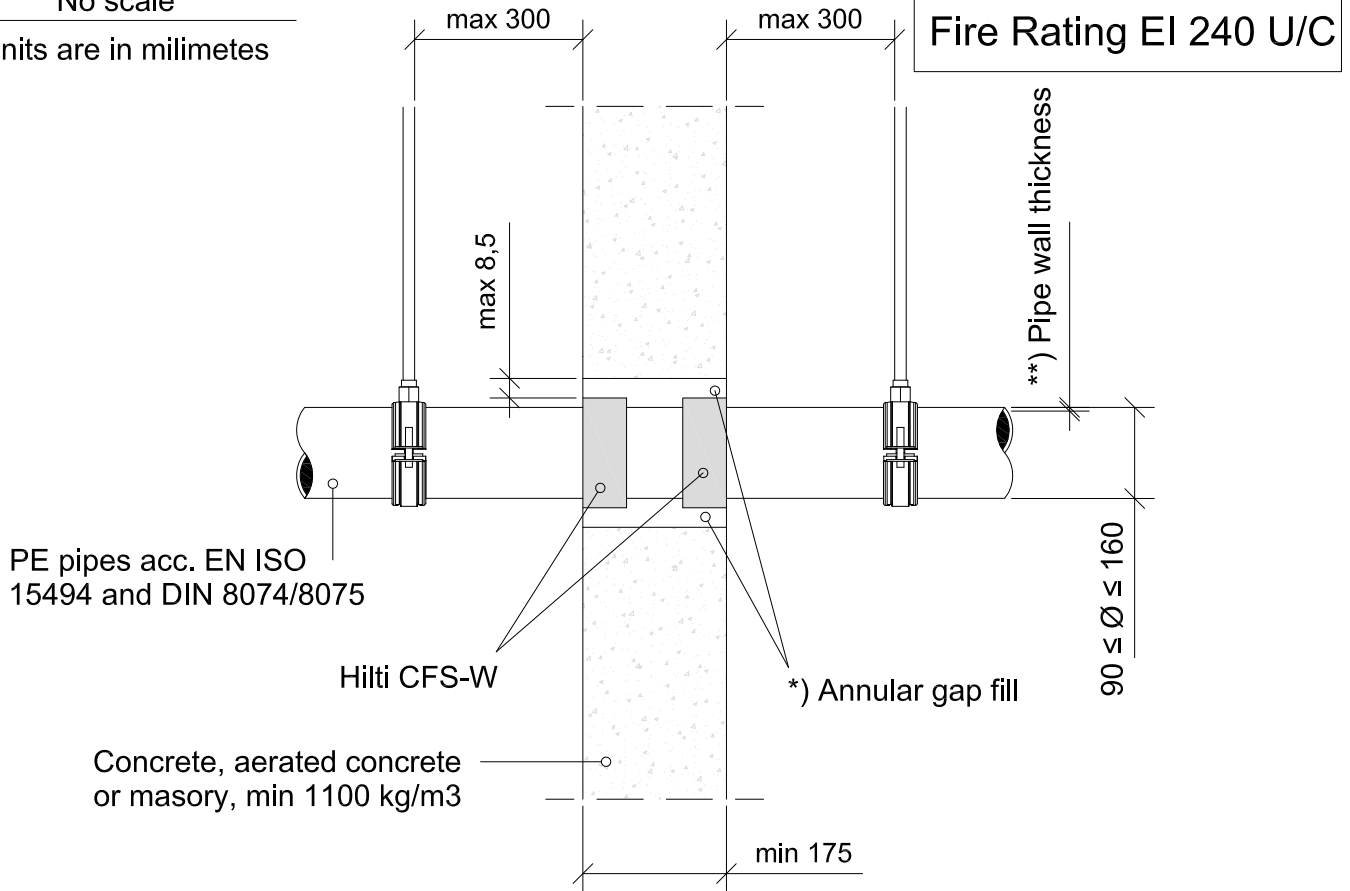
REV

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/m³

*) Annular gap fill

**) Pipe wall thickness

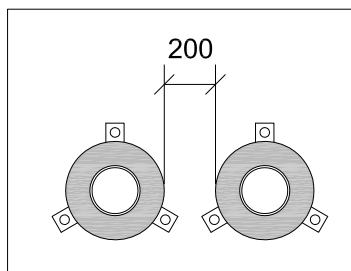
*) Annular gap fill material

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

ROOF-RW-PP-0026

FIRESTOP WRAP

0026_01

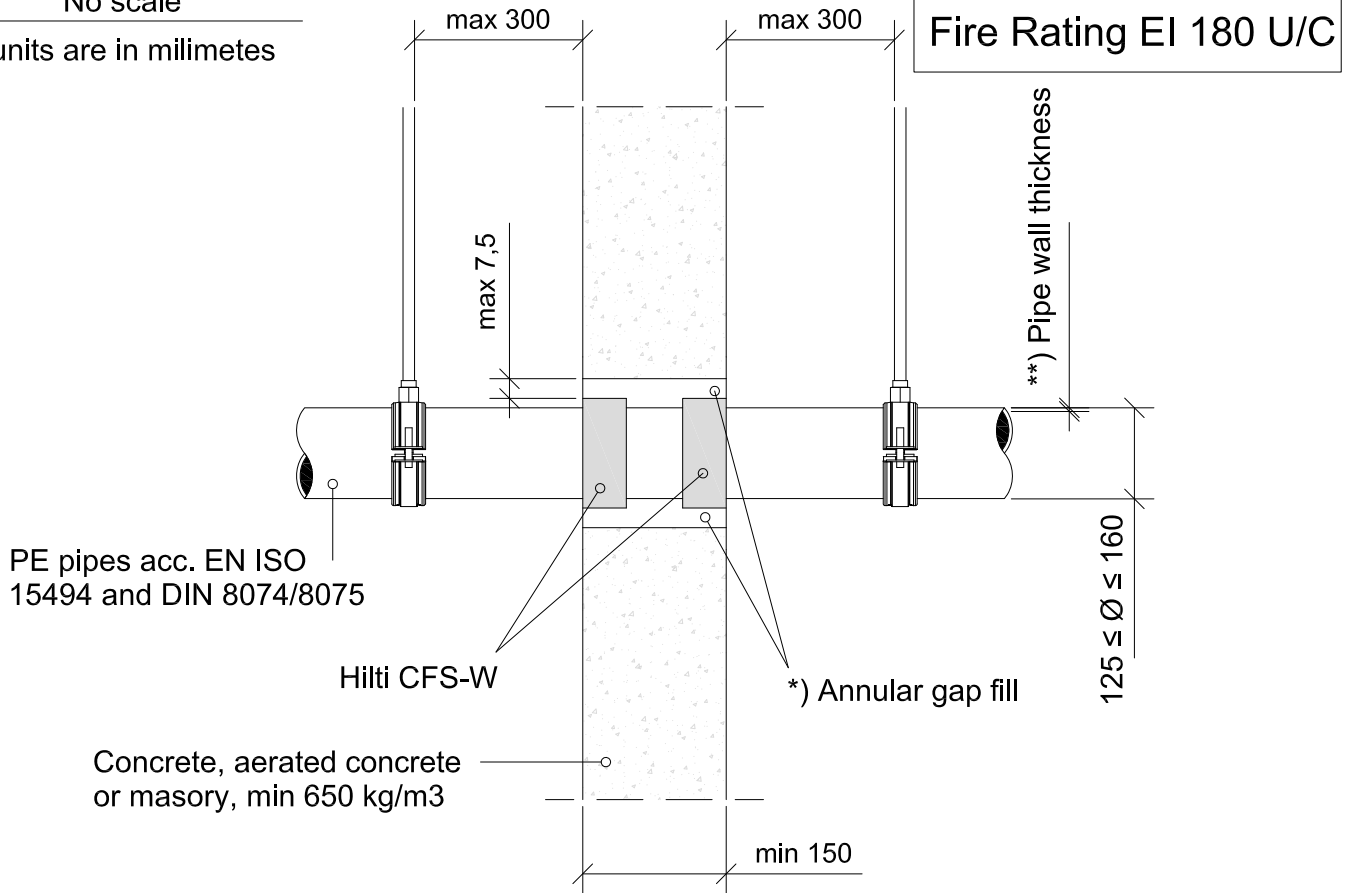
REV

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/m³

*) Annular gap fill

**) Pipe wall thickness

125 ≤ Ø ≤ 160

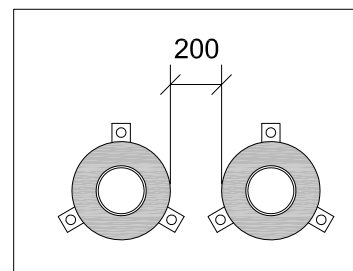
*) Annular gap fill material

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

ROOF-RW-PP-0030

FIRESTOP WRAP

0030_01

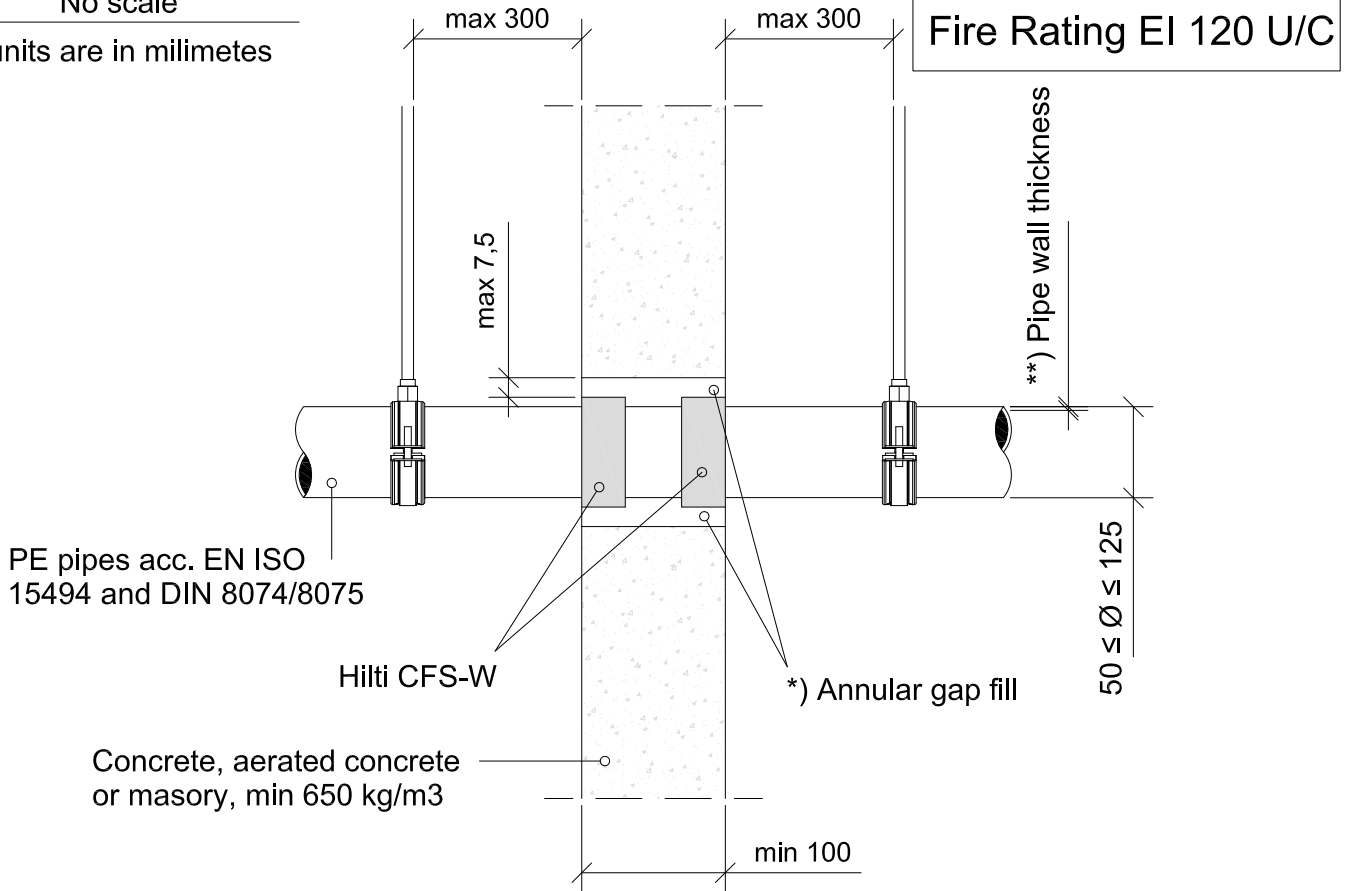
REV

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

*) Annular gap fill

Concrete, aerated concrete or masonry, min 650 kg/m³

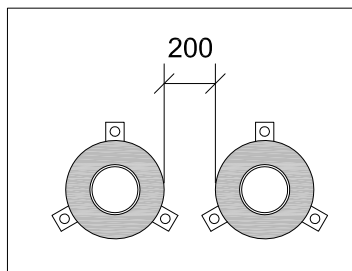
*) Annular gap fill material

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

ROOF-RW-PP-0031

FIRESTOP WRAP

0031_01

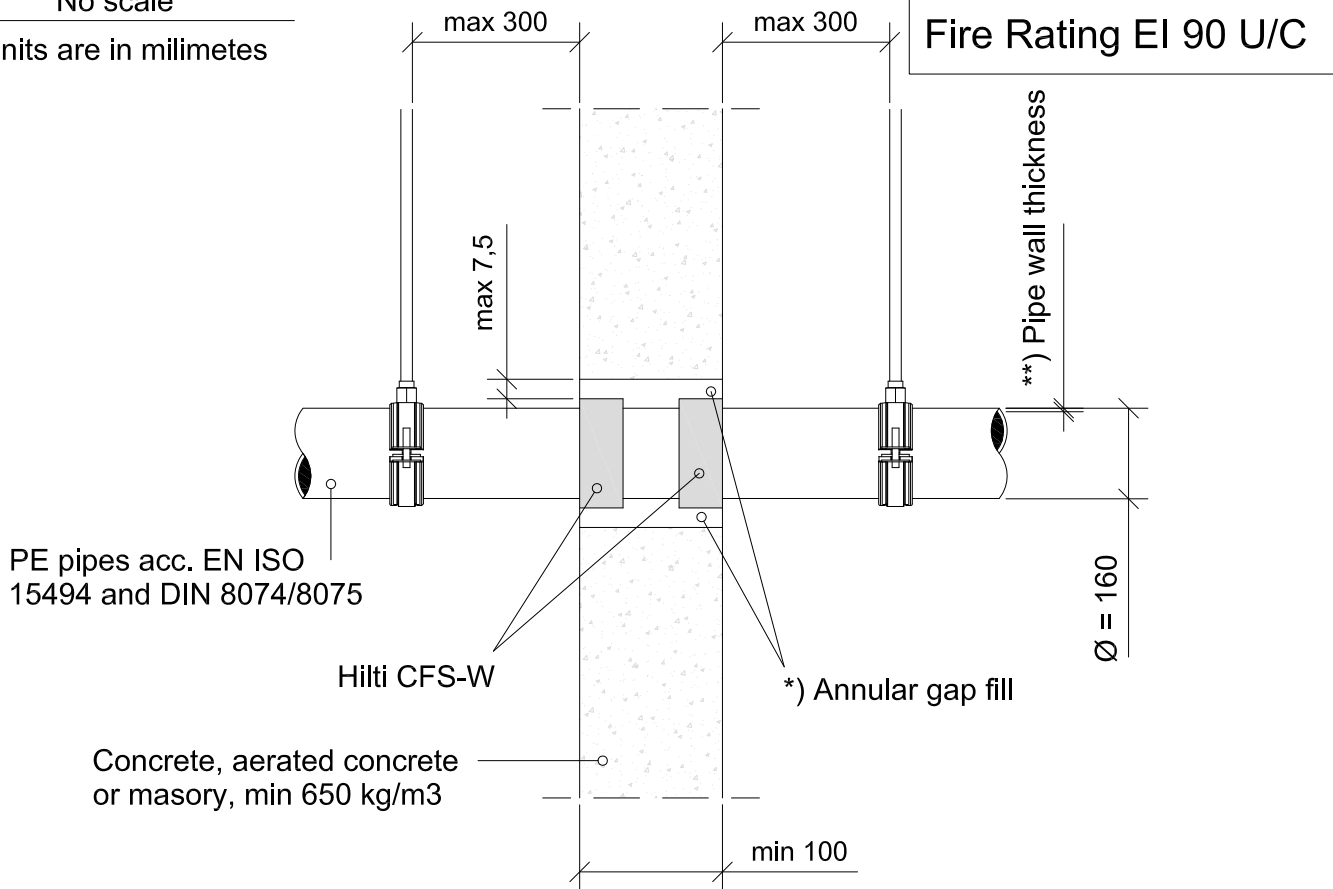
REV

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/m³

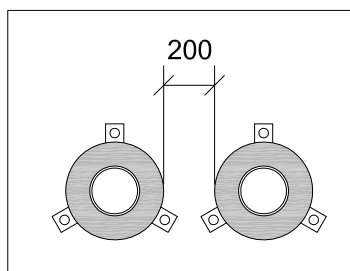
*) Annular gap fill material

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

ROOF-RW-PP-0032

FIRESTOP WRAP

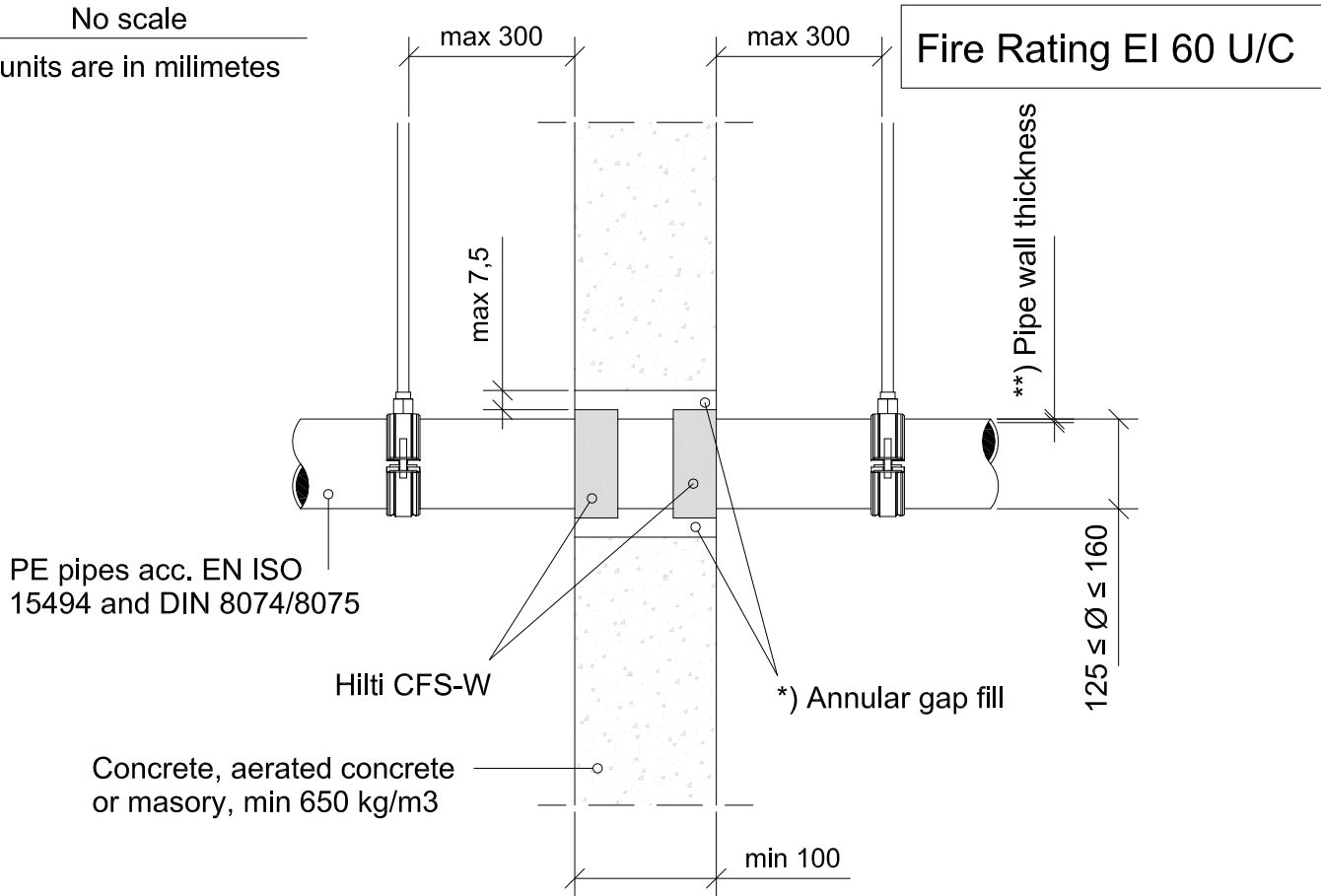
0032_01

REV

00

No scale

All units are in millimetres



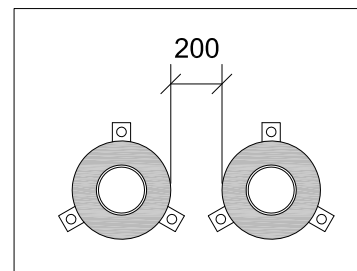
*) Annular gap fill material

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

ROOF-RW-PP-0033

FIRESTOP WRAP

0033_01

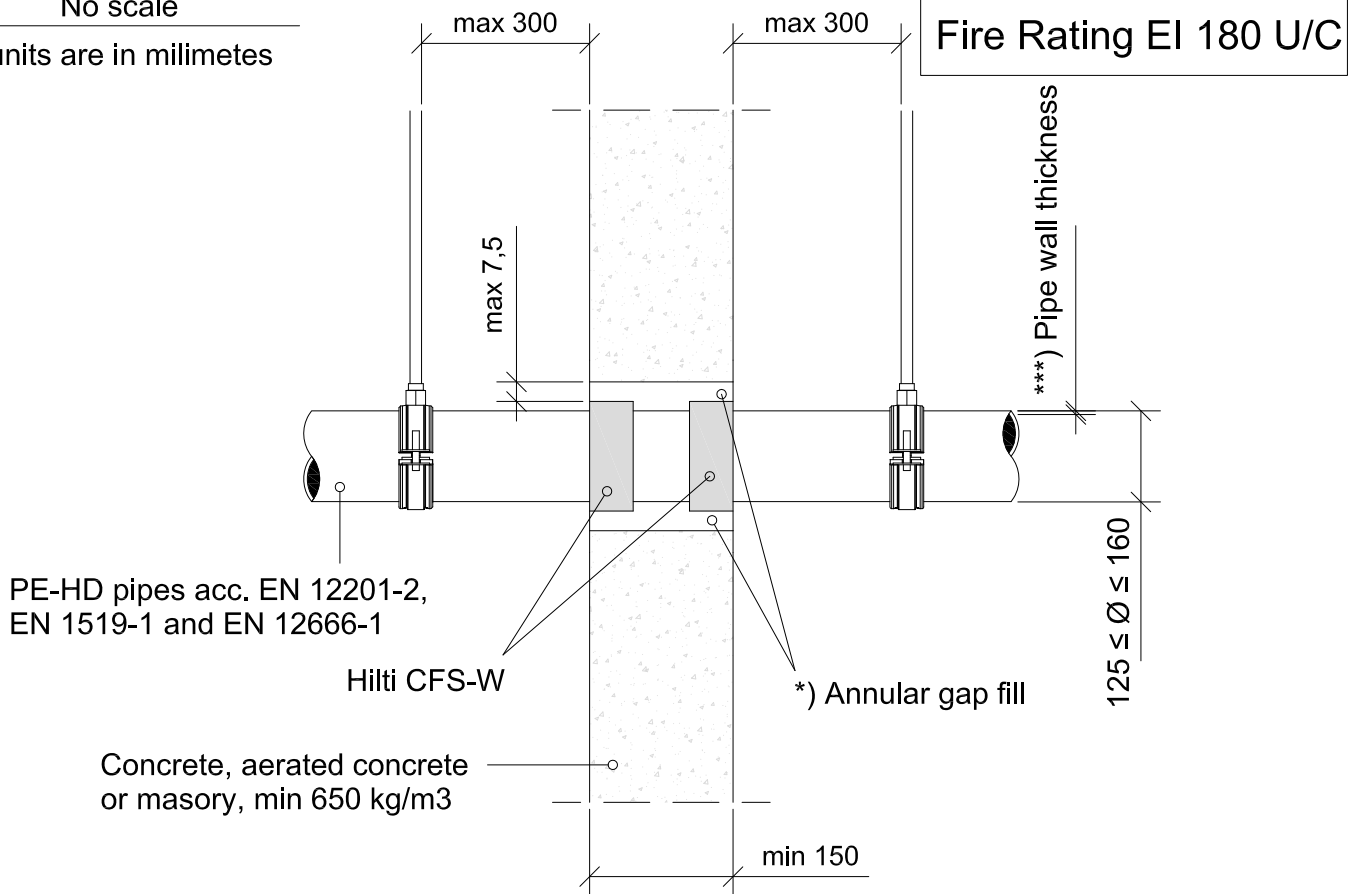
REV

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

Concrete, aerated concrete or masonry, min 650 kg/m³

*) Annular gap fill

***) Pipe wall thickness

*) Annular gap fill material

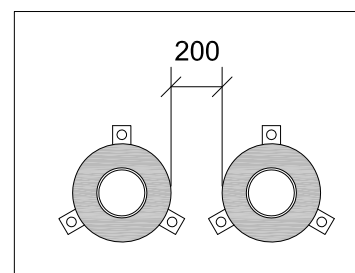
Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall, backfilled with mineral wool

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	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

ROOF-RW-PP-0034

FIRESTOP WRAP

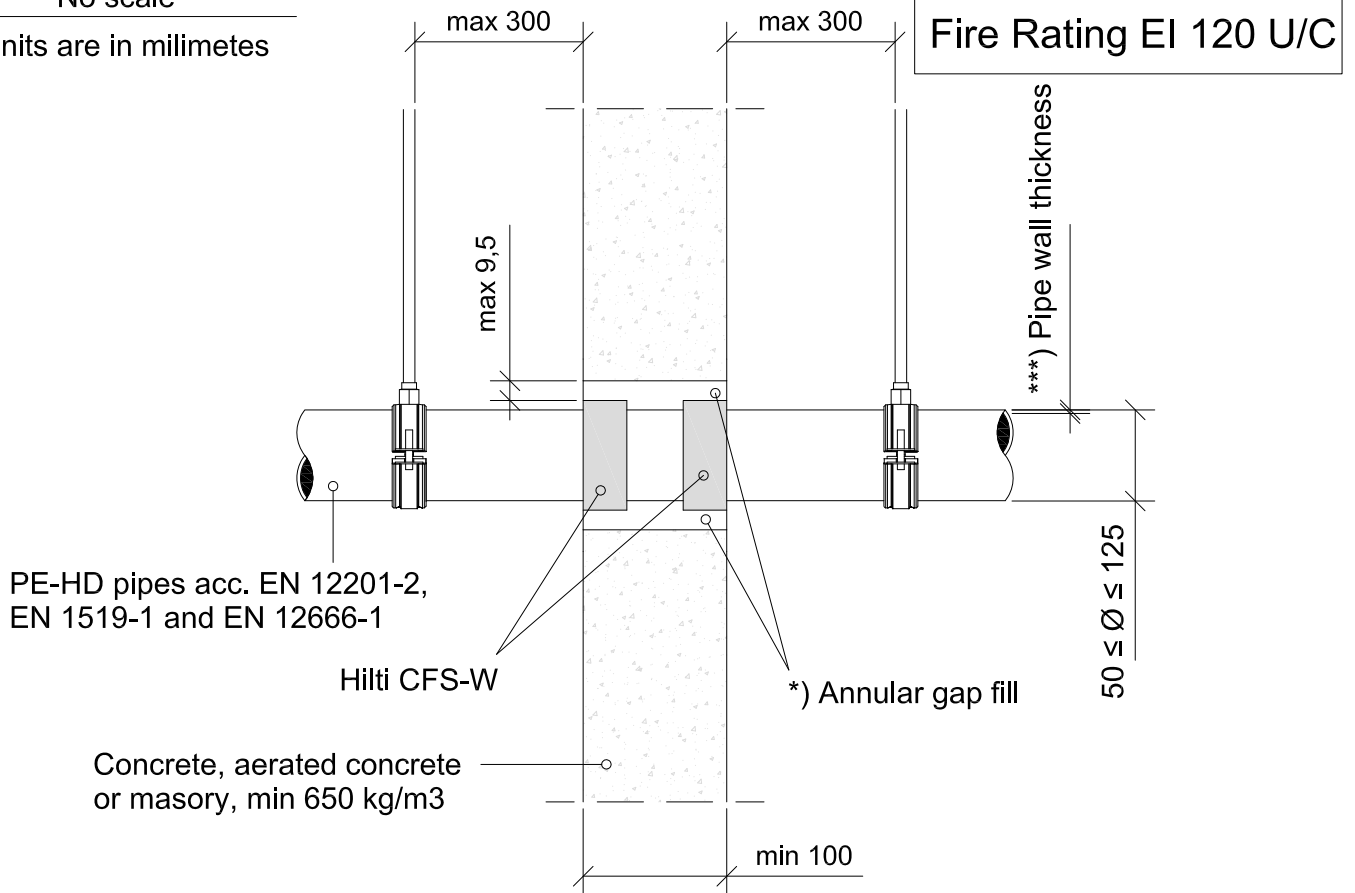
0034_01

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/m³

*) Annular gap fill

***) Pipe wall thickness

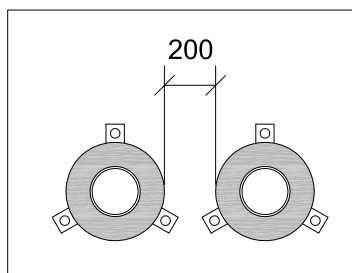
*) Annular gap fill material

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

ROOF-RW-PP-0047

FIRESTOP WRAP

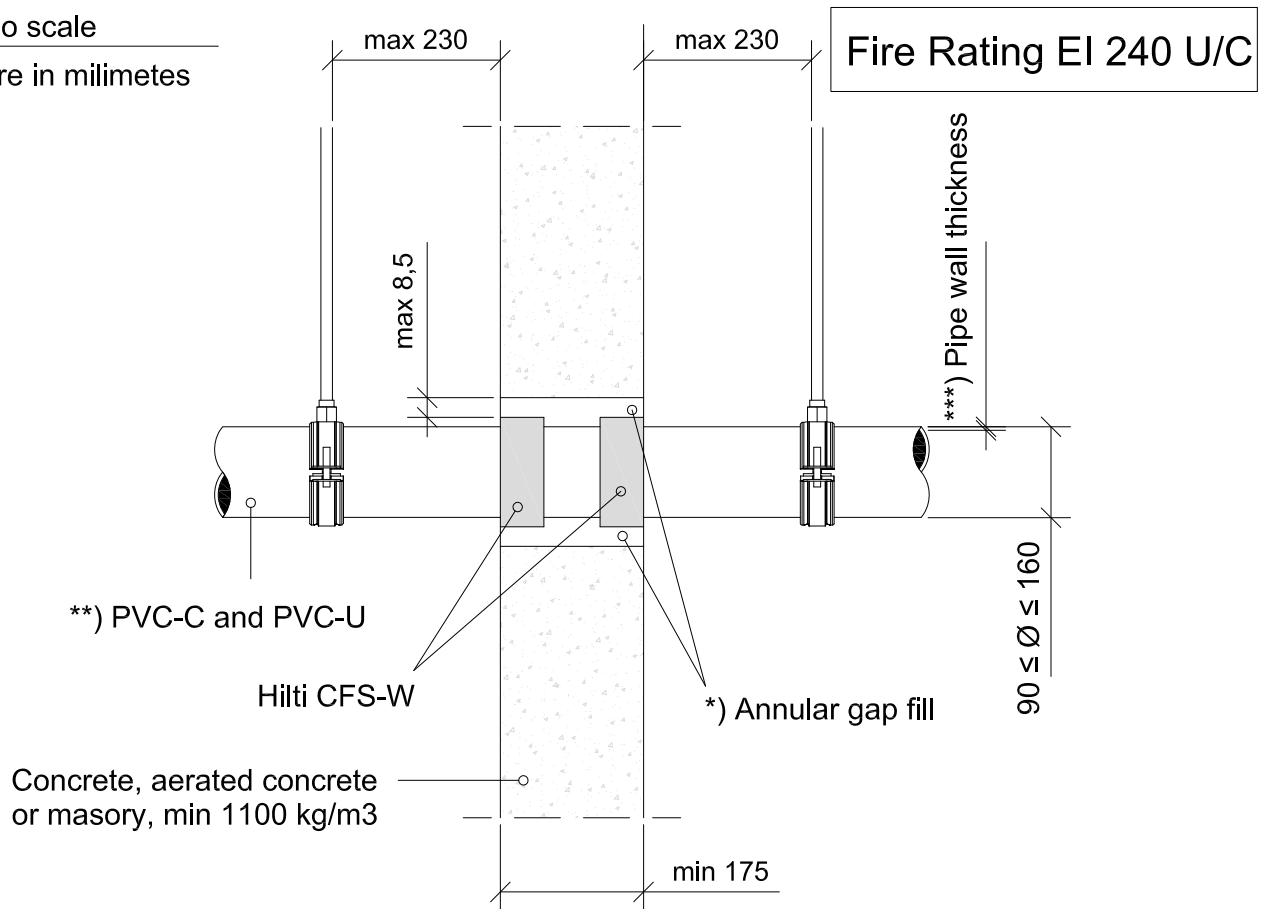
0047_01

REV

00

No scale

All units are in millimetres



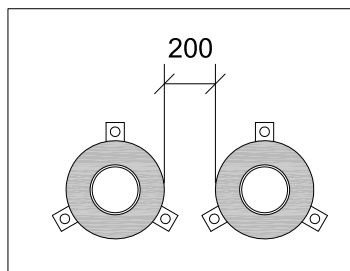
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

*) 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	3.2	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

ROOF-RW-PP-0048

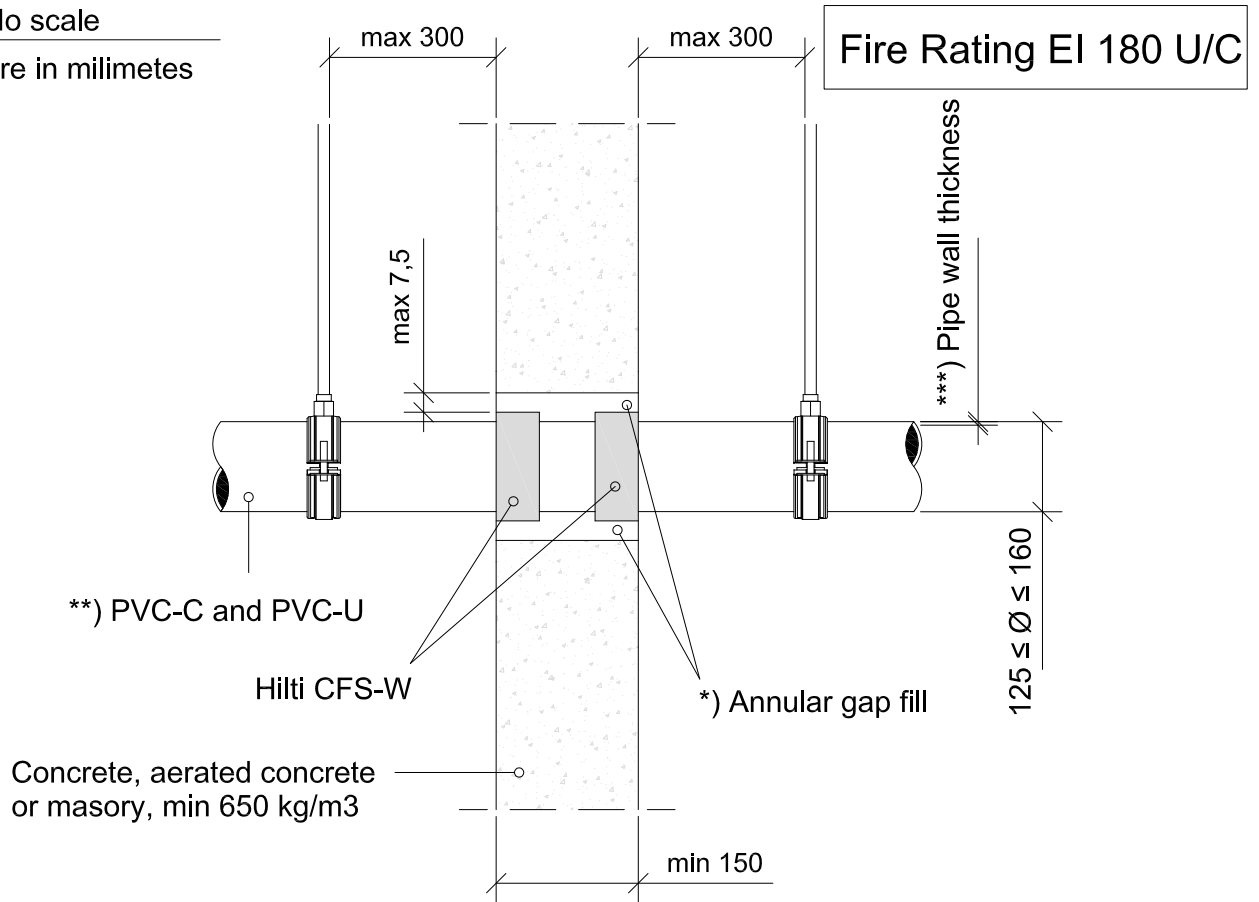
FIRESTOP WRAP

0048_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.

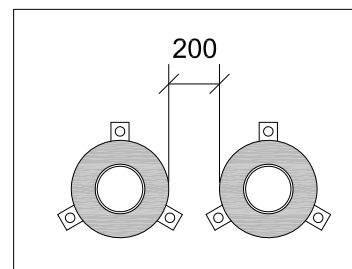
***) Pipe wall thickness

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	160/6"
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

ROOF-RW-PP-0050

FIRESTOP WRAP

0050_01

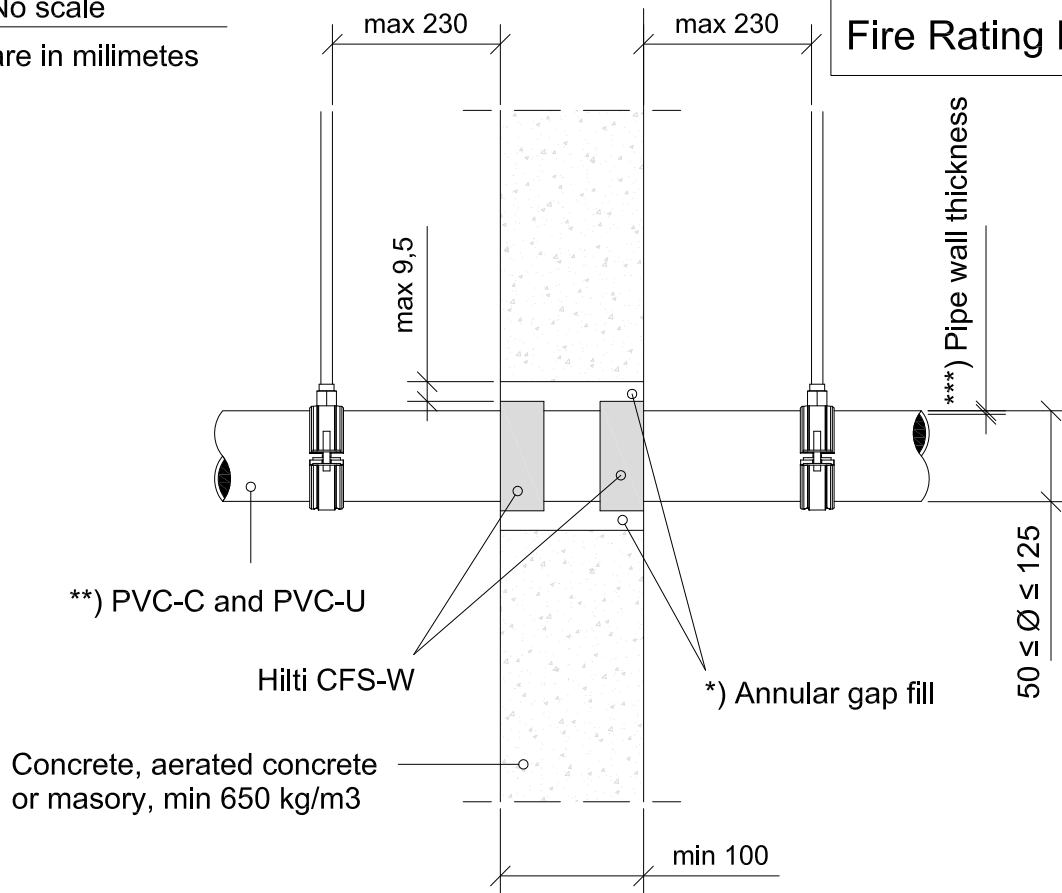
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C

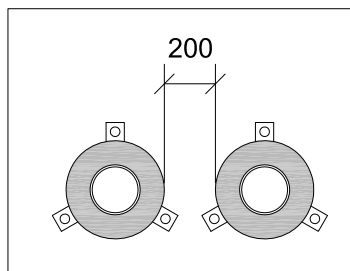


- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 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"
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

ROOF-RW-PP-0051

FIRESTOP WRAP

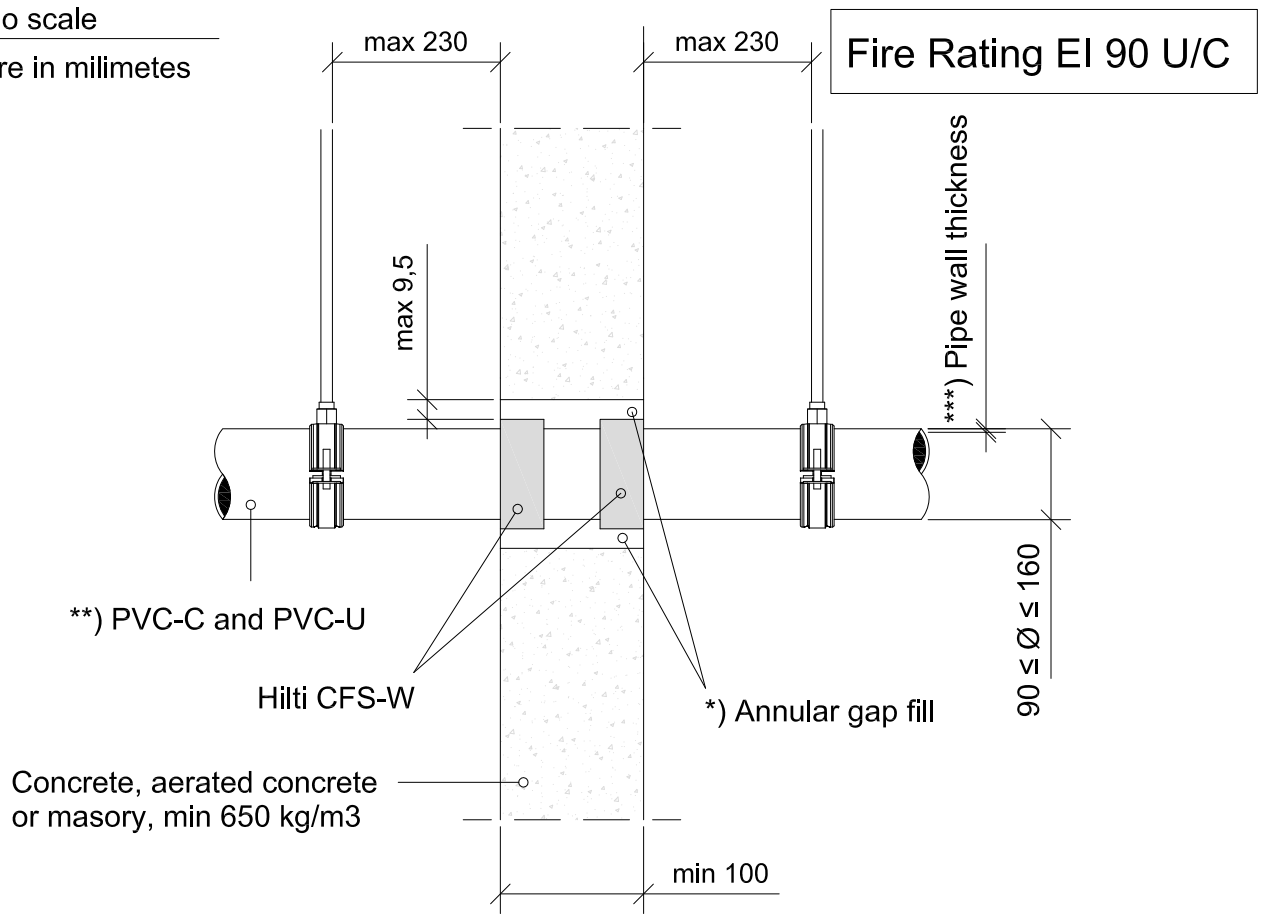
0051_01

REV

00

No scale

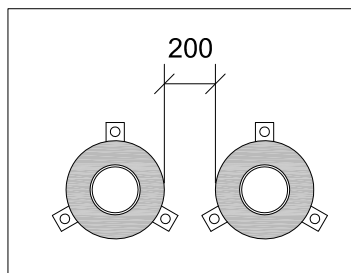
All units are in millimetres



- 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.



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
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

***) 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

ROOF-RW-PP-0052

FIRESTOP WRAP

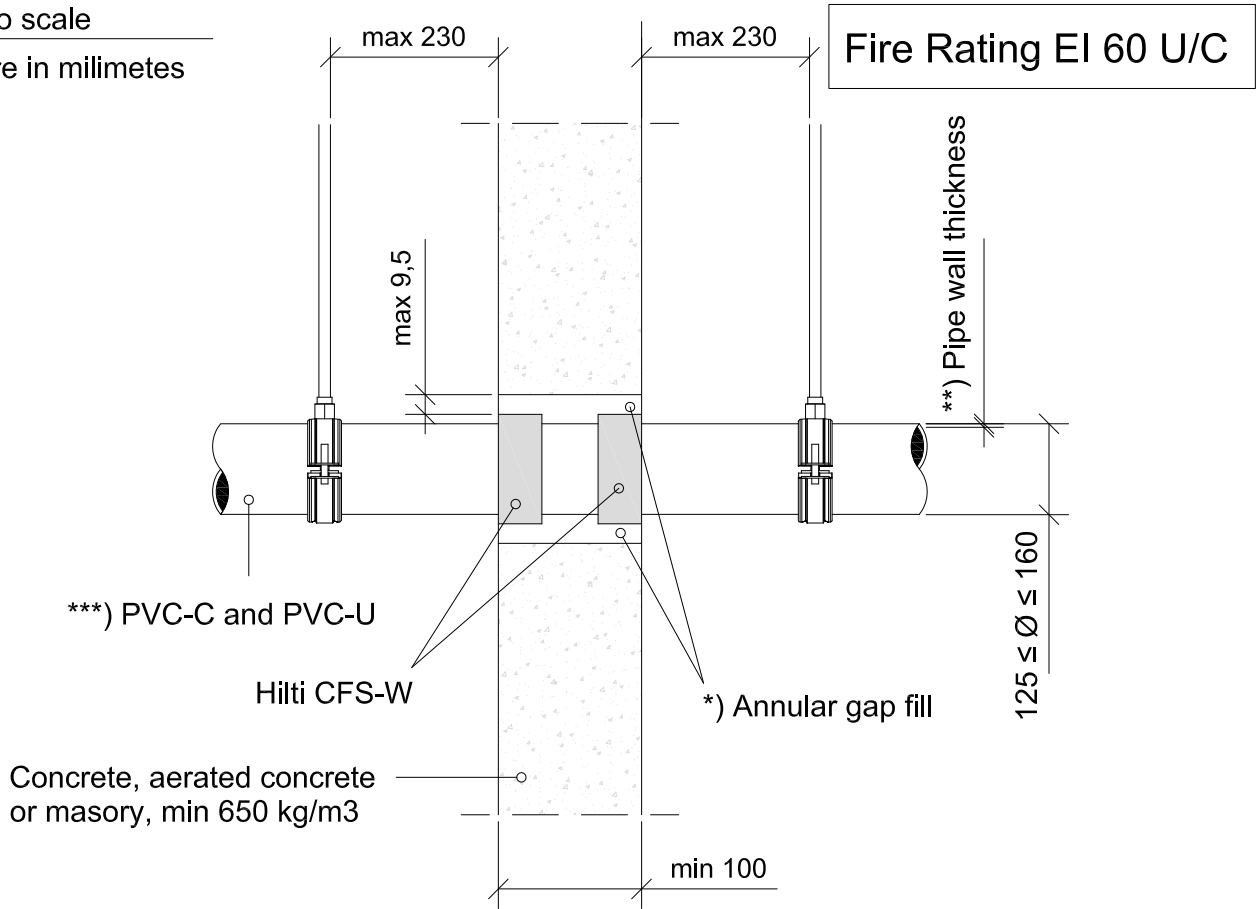
0052_01

REV

00

No scale

All units are in millimetres



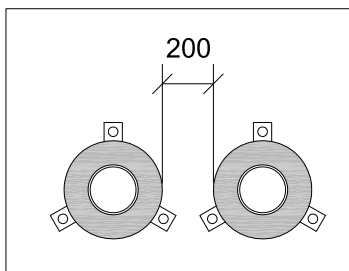
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

*) 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

ROOF-RF-PP-0053

FIRESTOP WRAP

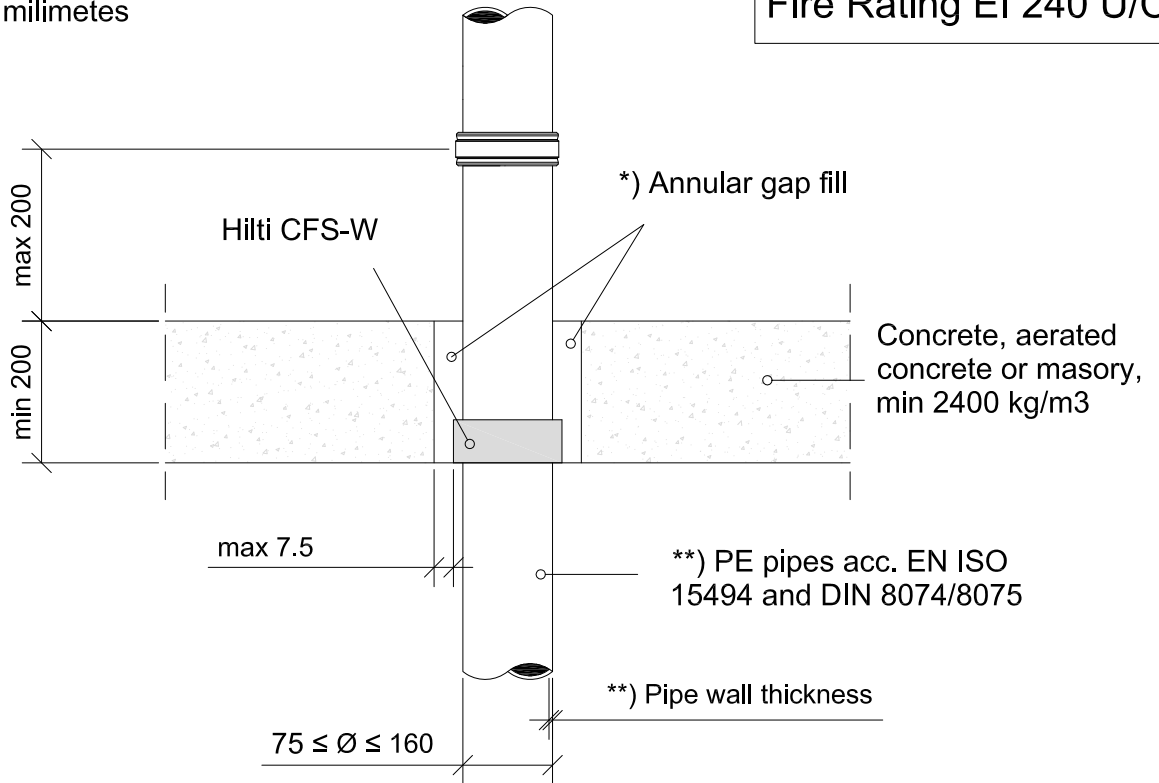
0053_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 240 U/C



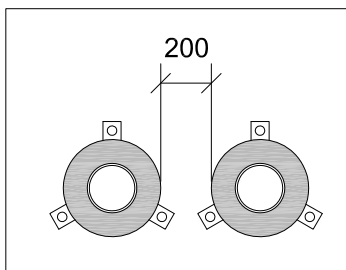
*) Annular gap fill material

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

ROOF-RF-PP-0055

FIRESTOP WRAP

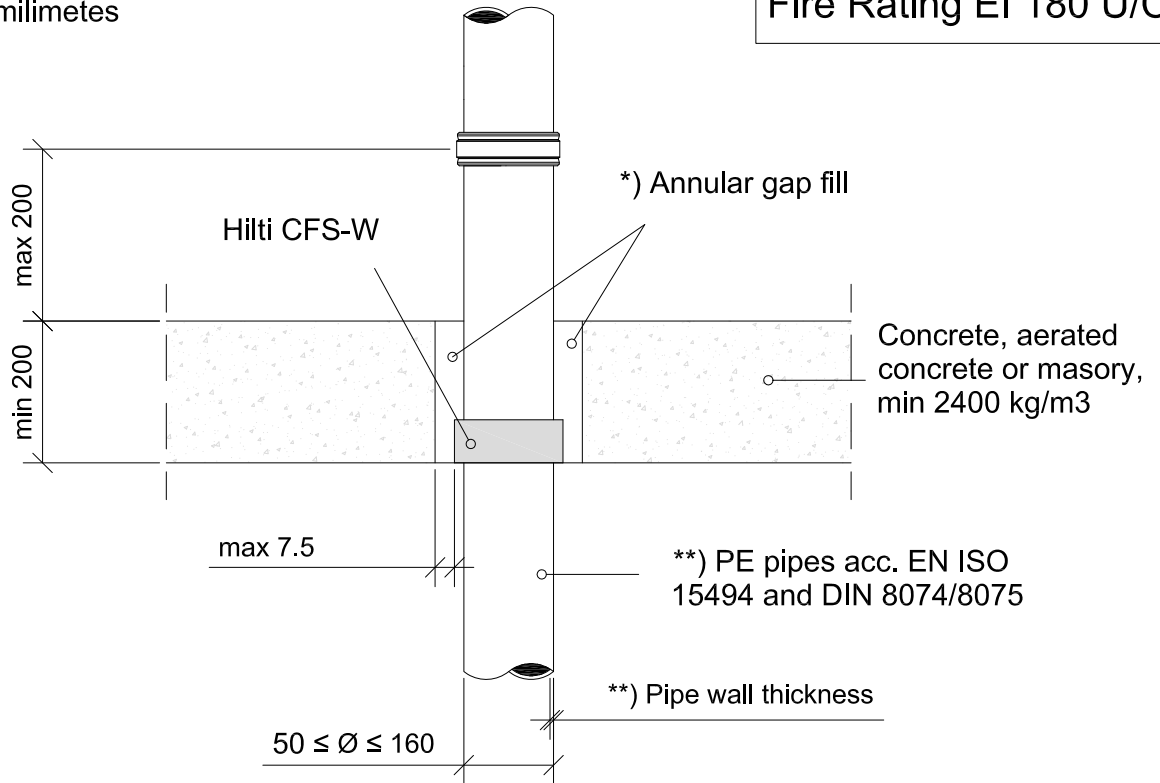
0055_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 180 U/C



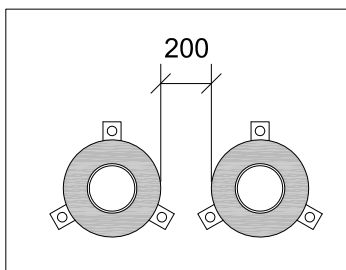
*) Annular gap fill material

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.

***) Pipe wall thickness

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



Minimum distance between annular gap

- Approval ETA-10/0405 of 06/05/2013
- 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

ROOF-RF-PP-0058

FIRESTOP WRAP

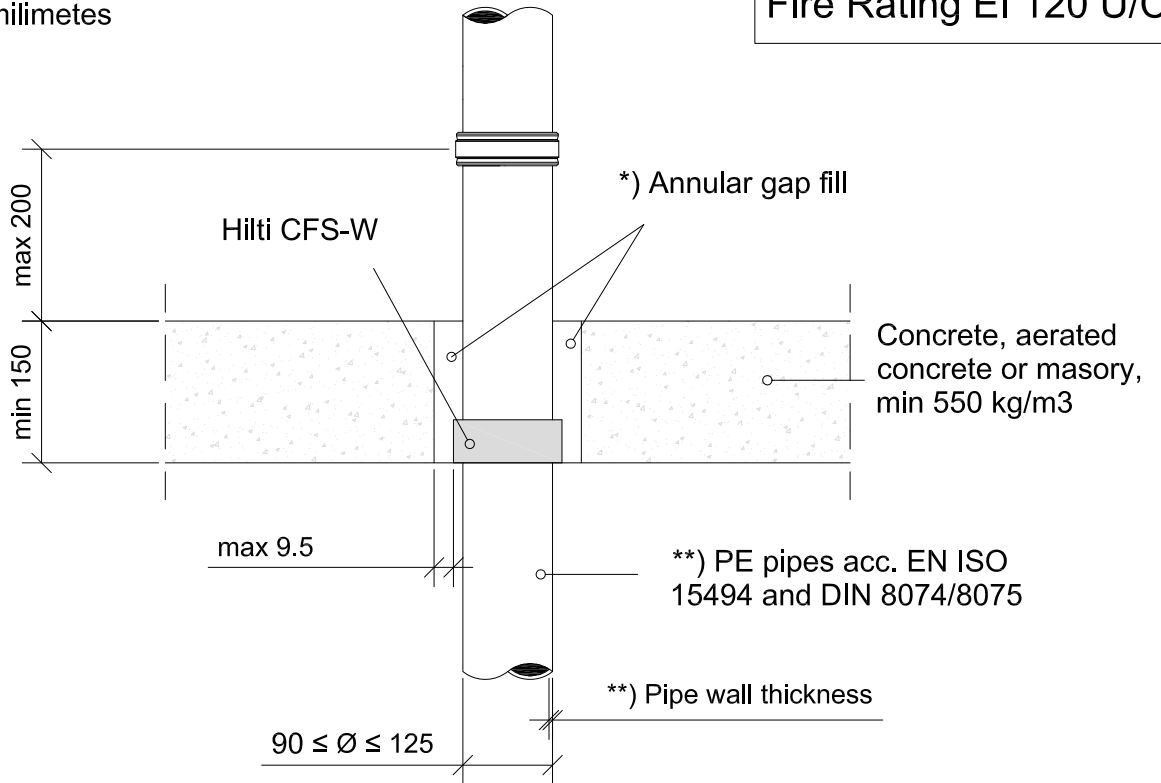
0058_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



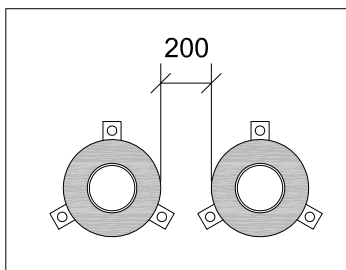
*) Annular gap fill material

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

ROOF-RF-PP-0060

FIRESTOP WRAP

0060_01

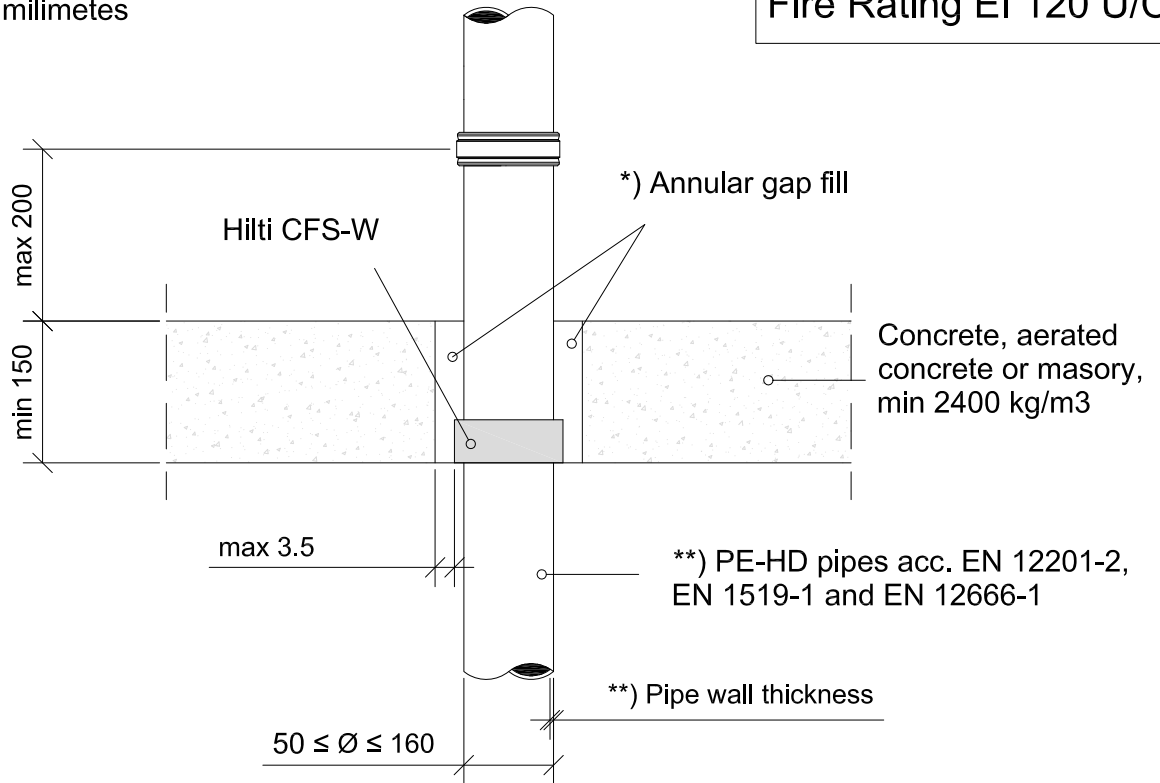
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 U/C



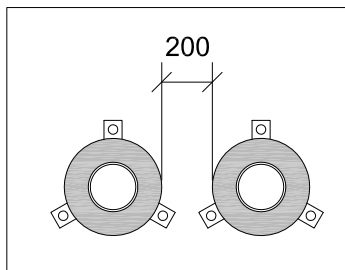
*) Annular gap fill material

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
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



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

ROOF-RF-PP-0077

FIRESTOP WRAP

0077_01

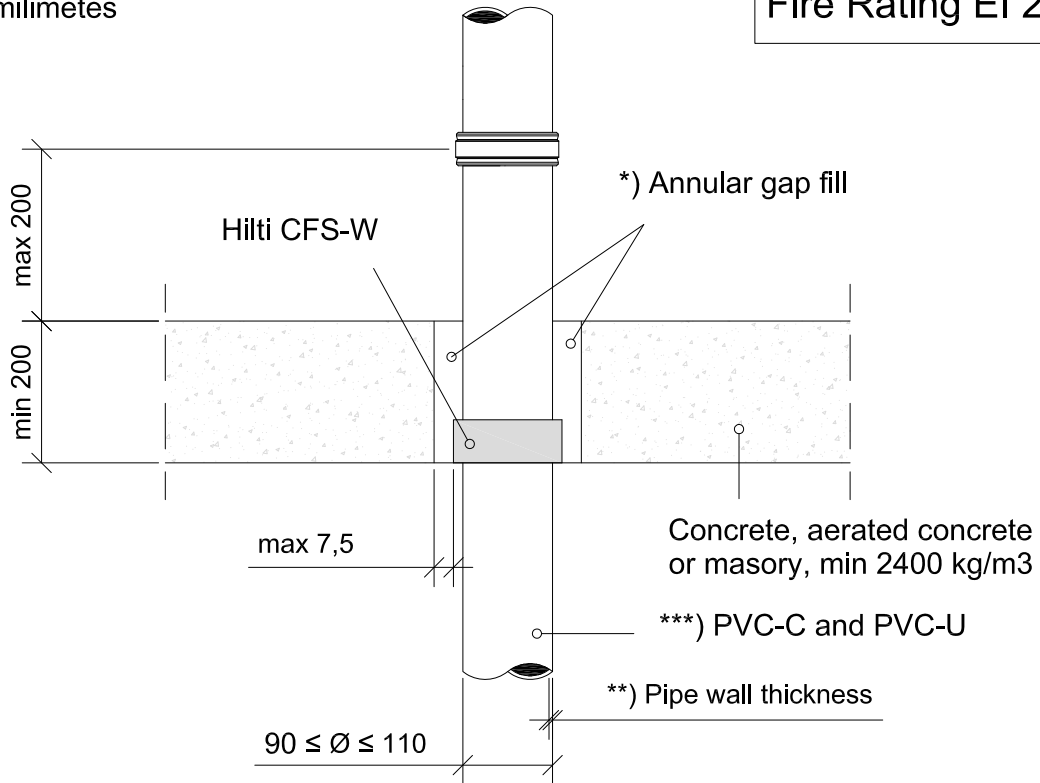
REV

00

No scale

All units are in millimetres

Fire Rating EI 240 U/C

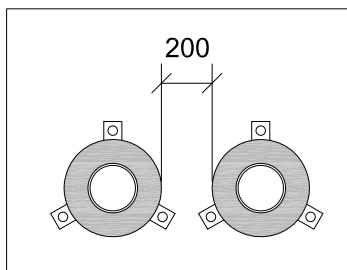


*) Annular gap fill material

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

ROOF-RF-PP-0079

FIRESTOP WRAP

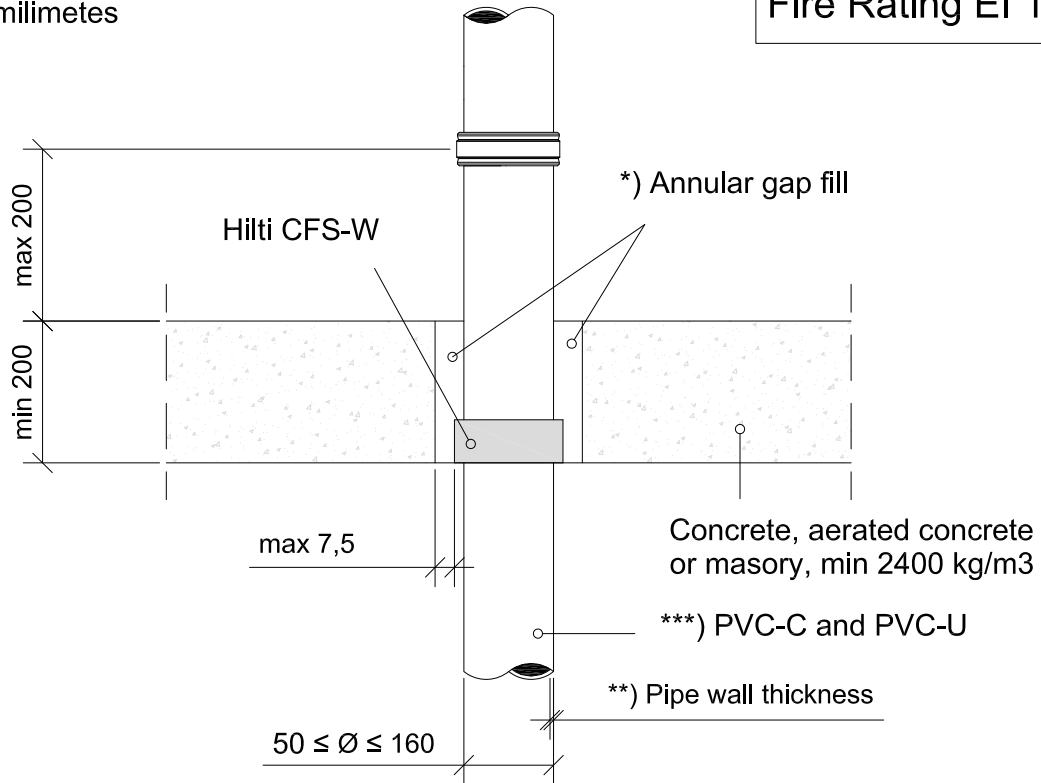
0079_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 180 U/C

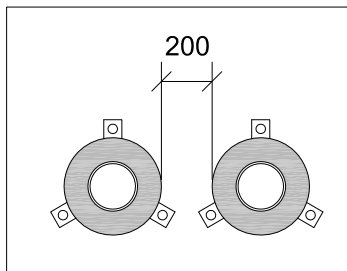


- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

*) 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
$75 \leq \varnothing \leq 125$	3.7 - 6.0	CFS-W EL	2
$125 \leq \varnothing \leq 160$	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

ROOF-RF-PP-0082

FIRESTOP WRAP

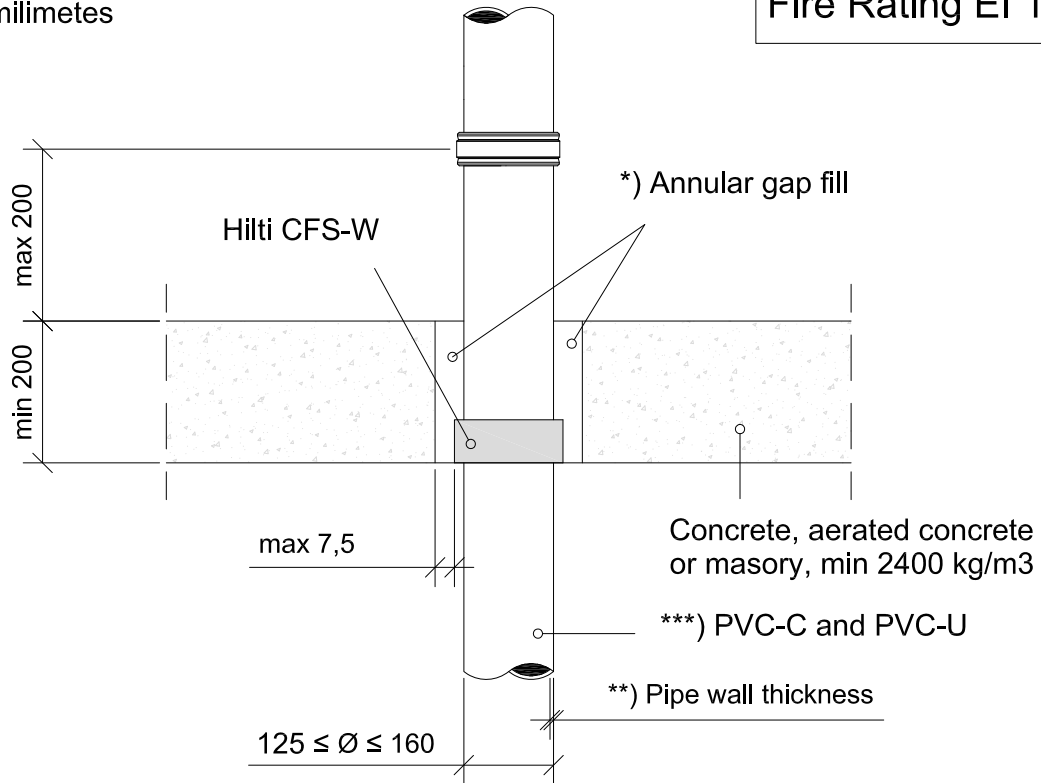
0082_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 120 U/C

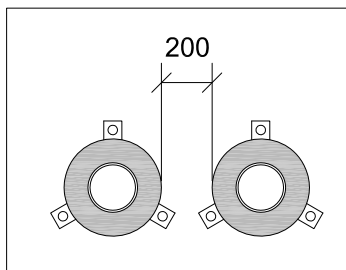


*) Annular gap fill material

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

ROOF-RF-PP-0083

FIRESTOP WRAP

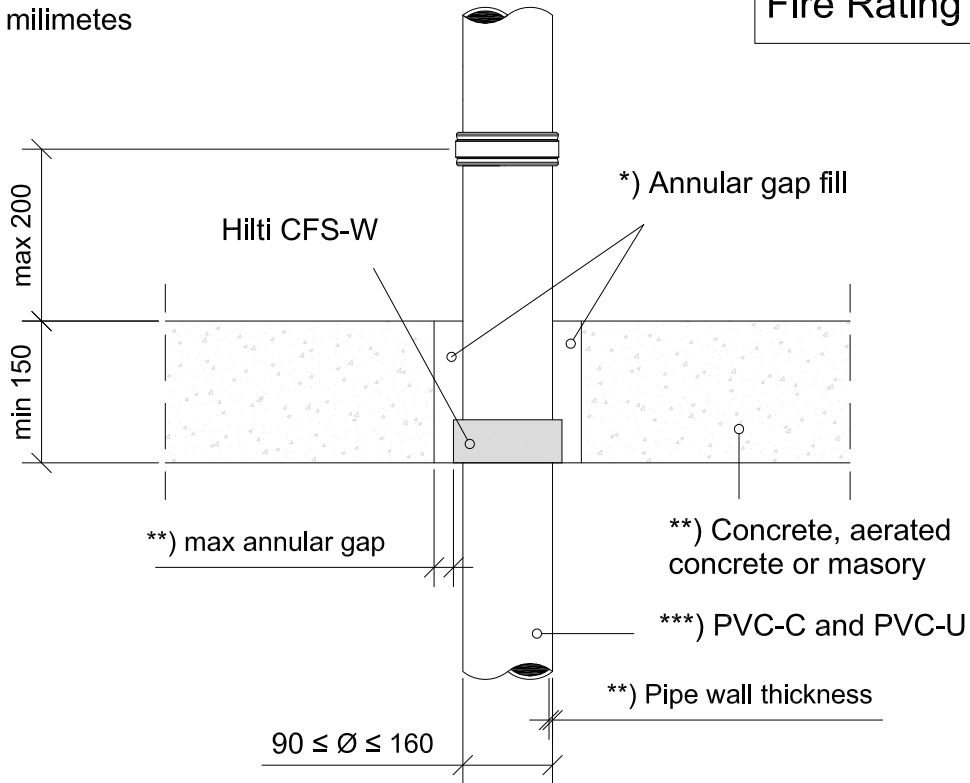
0083_01

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

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

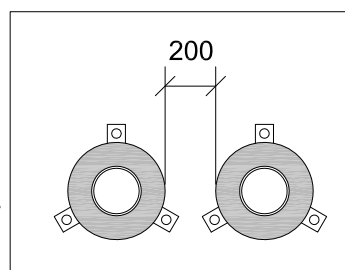
Cementious mortar over the entire thickness of the wall.

***) 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



Minimum distance between annular gap



CONTENTS

Straight plastic pipe in a floor

ID

ROOF-RF-PP-0084

FIRESTOP WRAP

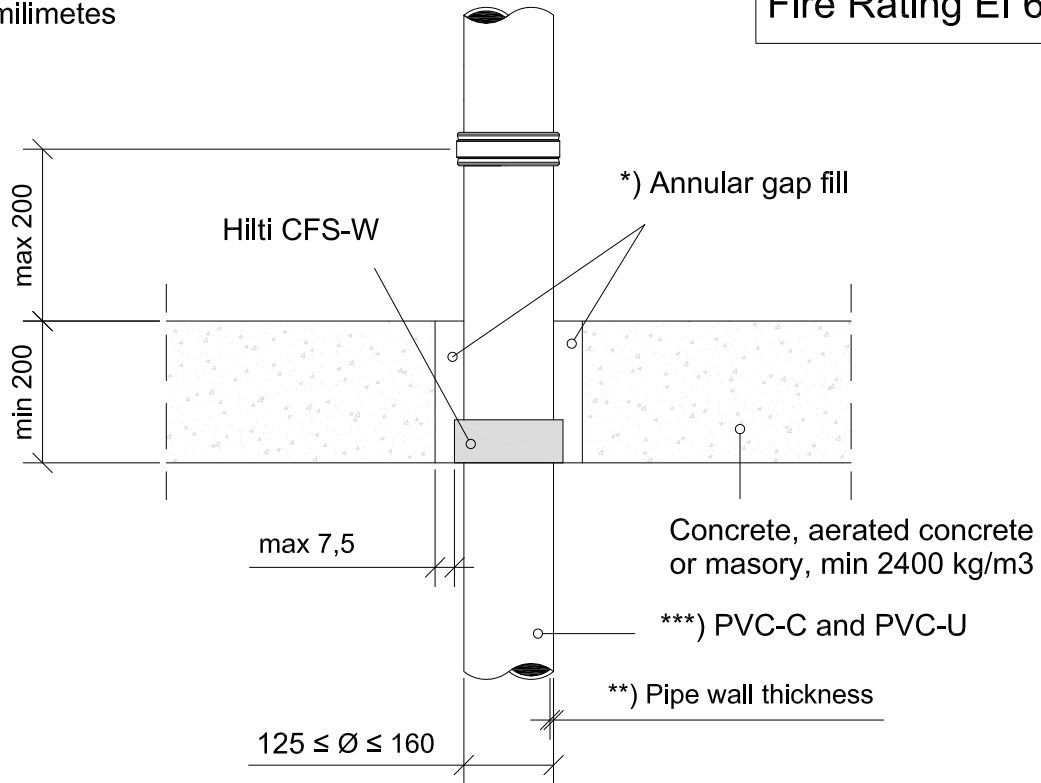
0084_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 60 U/C



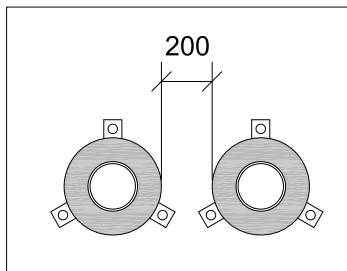
- Approval ETA-10/0405 of 28/06/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 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