

## Schémas d'applications pour le collier CFS-C P



### Applications pour industrie en voile rigide épaisseur 100 ou 150 mm

- |   |                                      |
|---|--------------------------------------|
| • Tube plastique PE en voile rigide épaisseur 100 mm                            | IND-RW-PP-0026/27                    |
| • Tube plastique PE en voile rigide épaisseur 150 mm                            | IND-RW-PP-0028/29/30/31              |
| • Tube plastique PP en voile rigide épaisseur 100 mm                            | IND-RW-PP-0037/38/39/<br>40/41/42/43 |
| • Tube plastique PVC en voile rigide épaisseur 100 mm                           | IND-RW-PP-0049/50/51                 |
| • Tube Al composite avec isolant type Armaflex en voile rigide épaisseur 100 mm | IND-RW-AL-0093                       |

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



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0026

## FIRESTOP COLLAR

0026\_01

REV  
00

No scale

All units are in millimetres

Comprise concrete, aerated  
concrete or masonry. min  
density of 450 kg/m<sup>3</sup>

PE acc EN ISO 15949  
and DIN 8074/8075

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

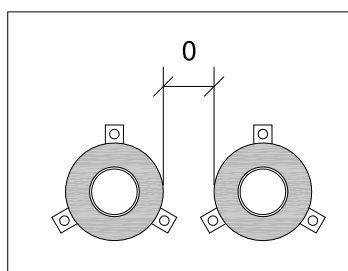
Hilti Firestop Acrylic Sealant CFS-S ACR on  
both sides with depth > 25 mm from the  
surface of the wall.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness



Zero distance between annular gap

Pipe Ø	Pipe wall thickness	Collar Size
50	2.9-4.6	CFS-C P 50/1.5"
63	1.8-5.8	CFS-C P 63/2"
75	1.9-6.8	CFS-C P 75/2.5"
90	2.2-8.2	CFS-C P 90/3"
110	2.7-10.0	CFS-C P 110/4"
125	3.1-7.1	CFS-C P 125/5"
160	4.0-9.0	CFS-C P 160/6"

Maximum thickness of sound decoupling: 5 mm

Fire Rating EI 120 U/U

\*\*) Pipe wall thickness

 $50 \leq \varnothing \leq 160$



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0027

## FIRESTOP COLLAR

0027\_01

REV

00

No scale

All units are in millimetres

Comprise concrete, aerated concrete or masonry. min density of 650 kg/m<sup>3</sup>

PE acc EN ISO 15949 and DIN 8074/8075

Hilti CFS-C P

\*) Annular gap fill

Fire Rating EI 90 U/U

\*\*) Pipe wall thickness

 $\varnothing = 63$ 

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over the entire thickness of the wall.

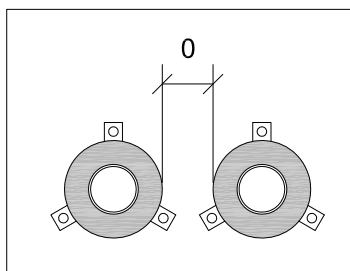
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe $\varnothing$	Pipe wall thickness	Collar Size
63	1.8-5.8	CFS-C P 63/2"

Maximum thickness of sound decoupling: 5 mm



Zero distance between annular gap



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0028

## FIRESTOP COLLAR

0028\_01

REV  
00

No scale

All units are in millimetres

Comprise concrete, aerated  
concrete or masonry. min  
density of 450 kg/m<sup>3</sup>

PE acc EN ISO 15949  
and DIN 8074/8075

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

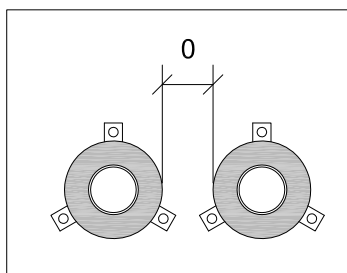
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
200	11.4	CFS-C P 200/8"
225	5.5-12.8	CFS-C P 225/9"
250	6.2-14.2	CFS-C P 250/10"

Maximum thickness of sound decoupling: 5 mm



Zero distance between annular gap

Fire Rating EI 180 U/U

\*\*) Pipe wall thickness

 $200 \leq \varnothing \leq 250$



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0029

## FIRESTOP COLLAR

0029\_01

REV  
00

No scale

All units are in millimetres

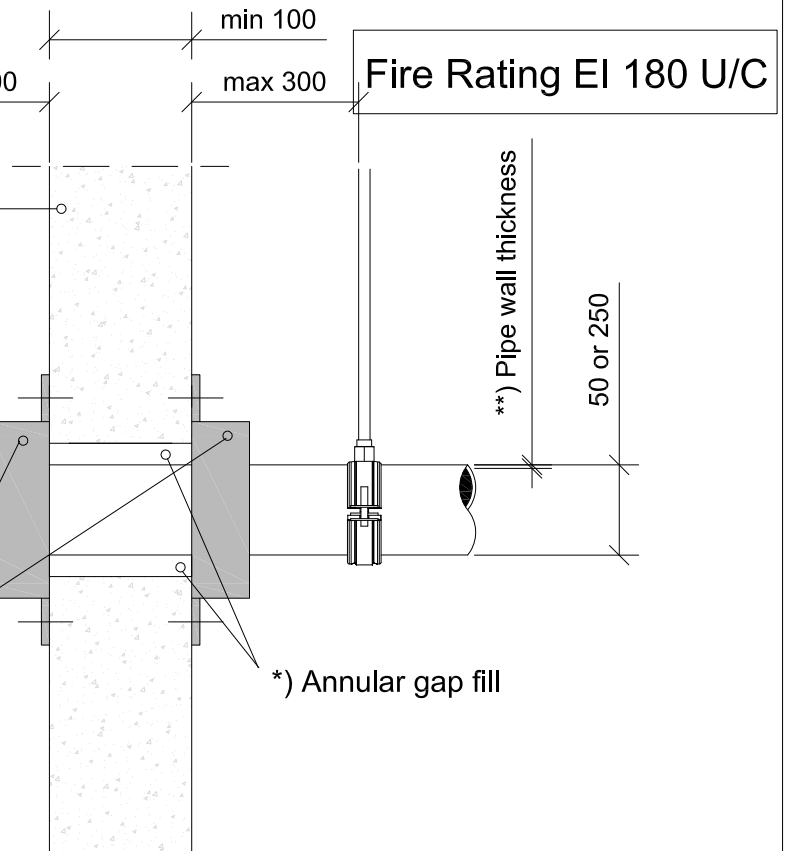
Comprise concrete, aerated  
concrete or masonry. min  
density of 450 kg/m<sup>3</sup>

PE acc EN ISO 15949  
and DIN 8074/8075

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

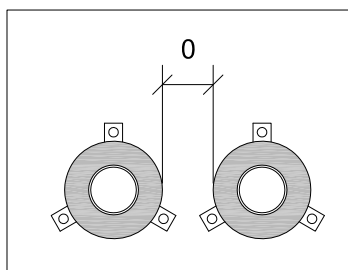
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
50	2.9	CFS-C P 50/1.5"
250	7.8	CFS-C P 250/10"

Maximum thickness of sound decoupling: 5 mm



Zero distance between annular gap



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0030

## FIRESTOP COLLAR

0030\_01

REV

00

No scale

All units are in millimetres

Comprise concrete, aerated concrete or masonry. min density of 650 kg/m<sup>3</sup>

PE acc EN ISO 15949 and DIN 8074/8075

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over the entire thickness of the wall.

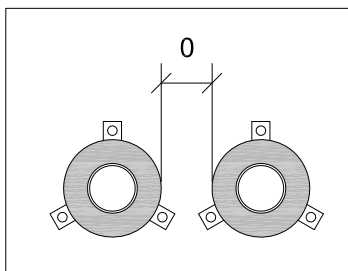
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
250	7.8-22.7	CFS-C P 250/10"

Maximum thickness of sound decoupling: 5 mm



Zero distance between annular gap

Fire Rating EI 120 U/C

max 300

max 300

\*\*) Pipe wall thickness

Ø = 250

min 150



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0031

## FIRESTOP COLLAR

0031\_01

REV  
00

No scale

All units are in millimetres

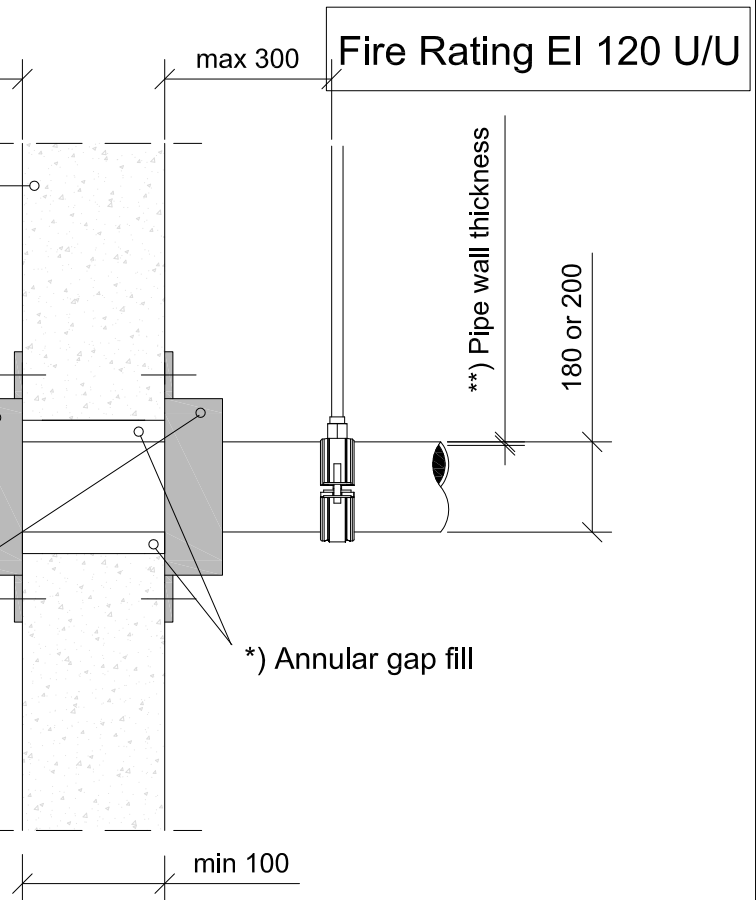
Comprise concrete, aerated  
concrete or masonry. min  
density of 450 kg/m<sup>3</sup>

PE acc EN ISO 15949  
and DIN 8074/8075

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

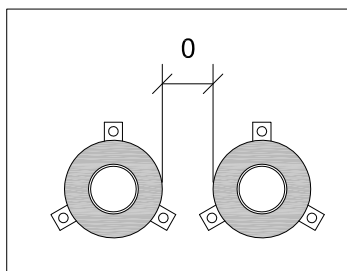
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
180	4.4-16.4	CFS-C P 180/7"
200	4.9-11.4	CFS-C P 200/8"

Maximum thickness of sound decoupling: 5 mm



Zero distance between annular gap



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0037

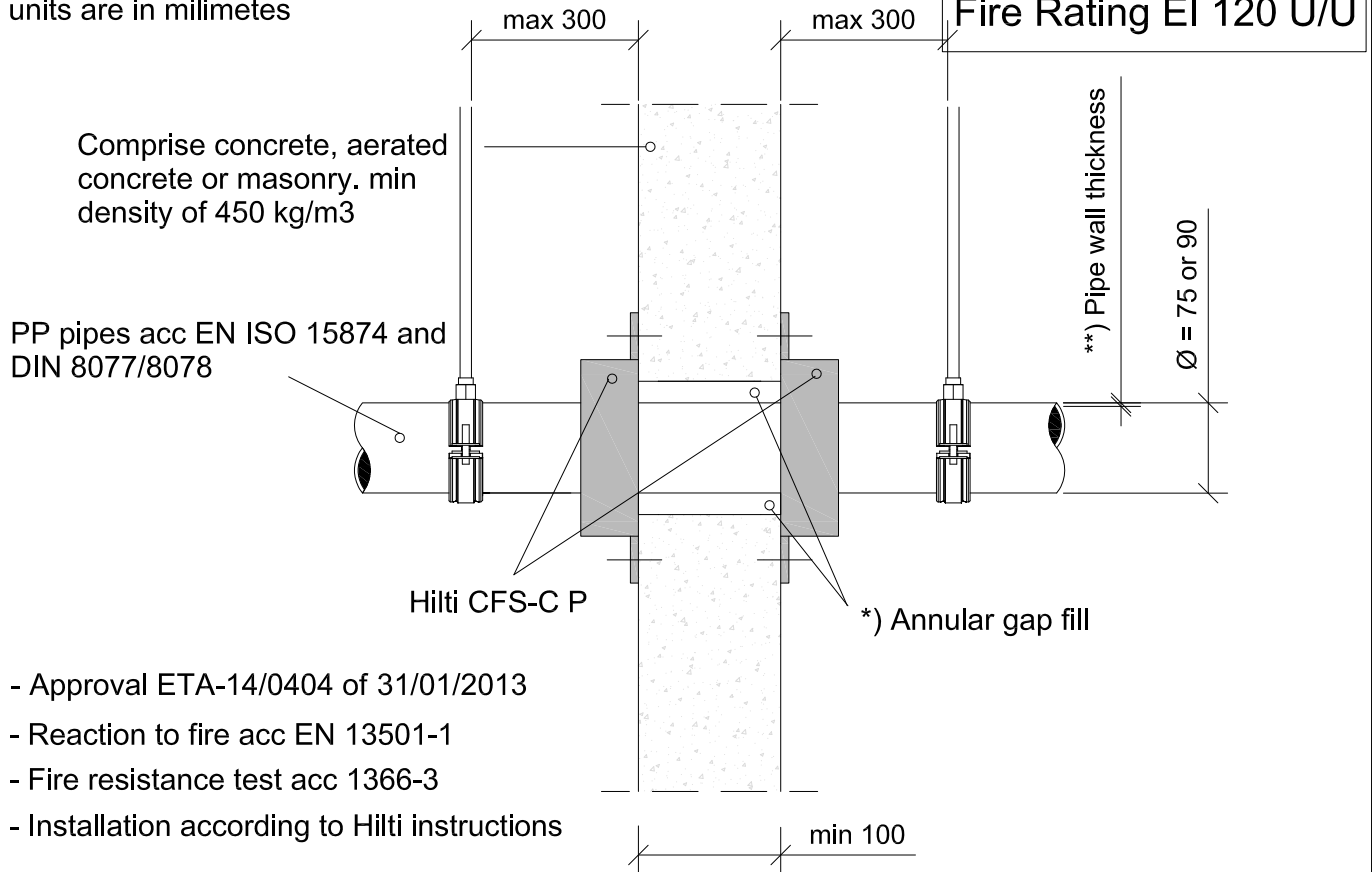
## FIRESTOP COLLAR

0037\_01

REV  
00

No scale

All units are in millimetres



- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over the entire thickness of the wall.

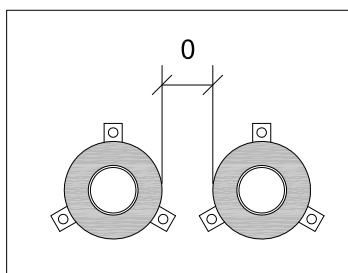
## Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

## \*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
75	6.8-12.5	CFS-C P 75/2.5"
90	8.2-15.0	CFS-C P 90/3"

Maximum thickness of sound decoupling: 9 mm



Zero distance between annular gap





## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0038

## FIRESTOP COLLAR

0038\_01

REV  
00

No scale

All units are in millimetres

Comprise concrete, aerated  
concrete or masonry. min  
density of 450 kg/m<sup>3</sup>

PP pipes acc EN ISO 15874 and  
DIN 8077/8078

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

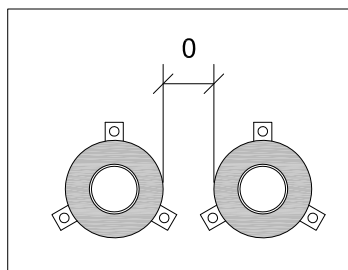
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
63	10.5	CFS-C P 63/2"
75	6.8	CFS-C P 75/2.5"

Maximum thickness of sound decoupling: 9 mm



Zero distance between annular gap

Fire Rating EI 120 U/C



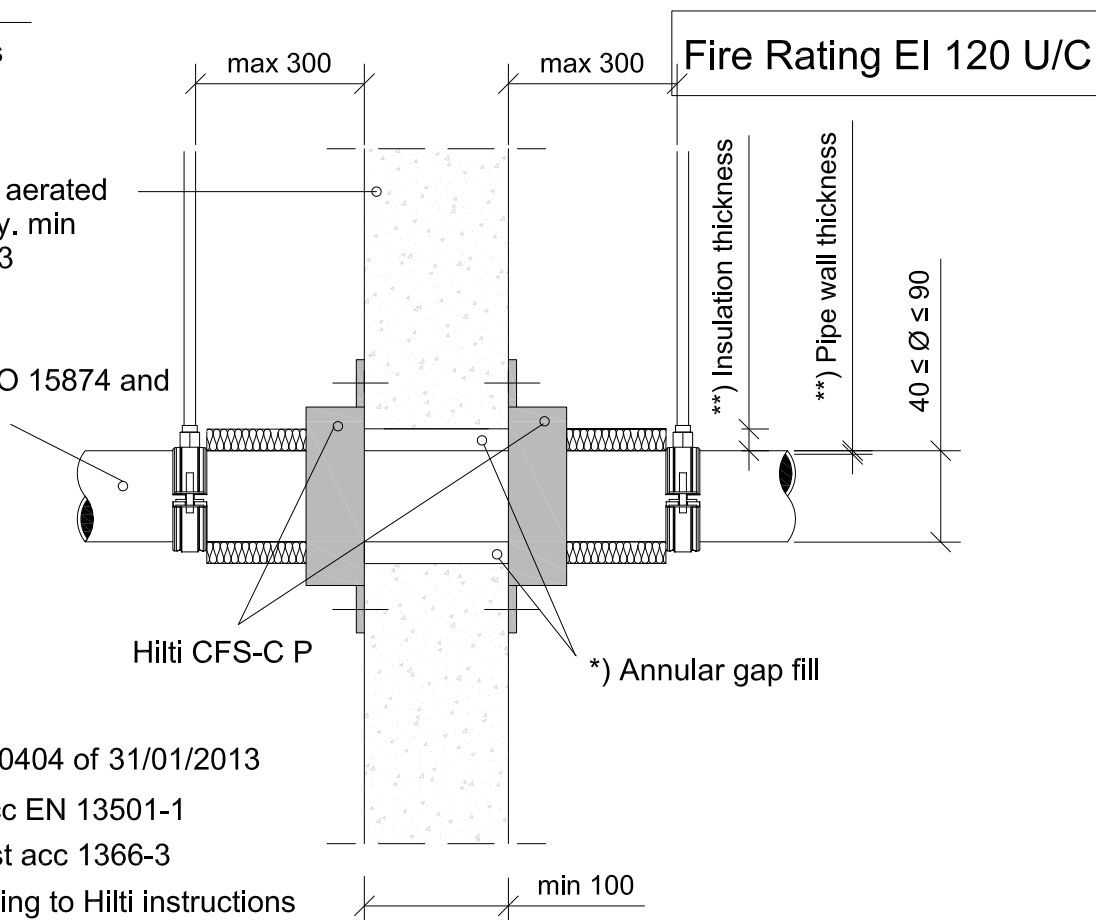
No scale

All units are in millimetres

Comprise concrete, aerated concrete or masonry. min density of 450 kg/m<sup>3</sup>

PP pipes acc EN ISO 15874 and DIN 8077/8078

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



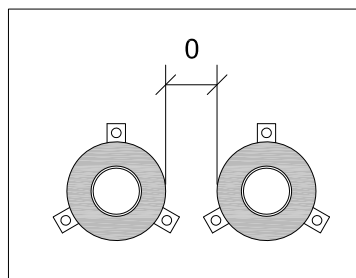
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall.

Gypsum plaster or cementitious mortar over the entire thickness of the wall.

Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$



Zero distance between annular gap

\*\*) Pipe wall and insulation thickness (Armaflex AF) arrangement Local Insulation (length of insulation > 250 mm) or Continued insulation

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Collar Size
40	3.7-5.5	9.0	CFS-C P 50/1.5"
50	4.6-6.9	9.0	CFS-C P 50/1.5"
75	6.8-10.3	9.0	CFS-C P 75/2.5"
90	10.0-15.1	10	CFS-C P 90/3"



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0040

## FIRESTOP COLLAR

0040\_01

REV

00

No scale

All units are in milimetres

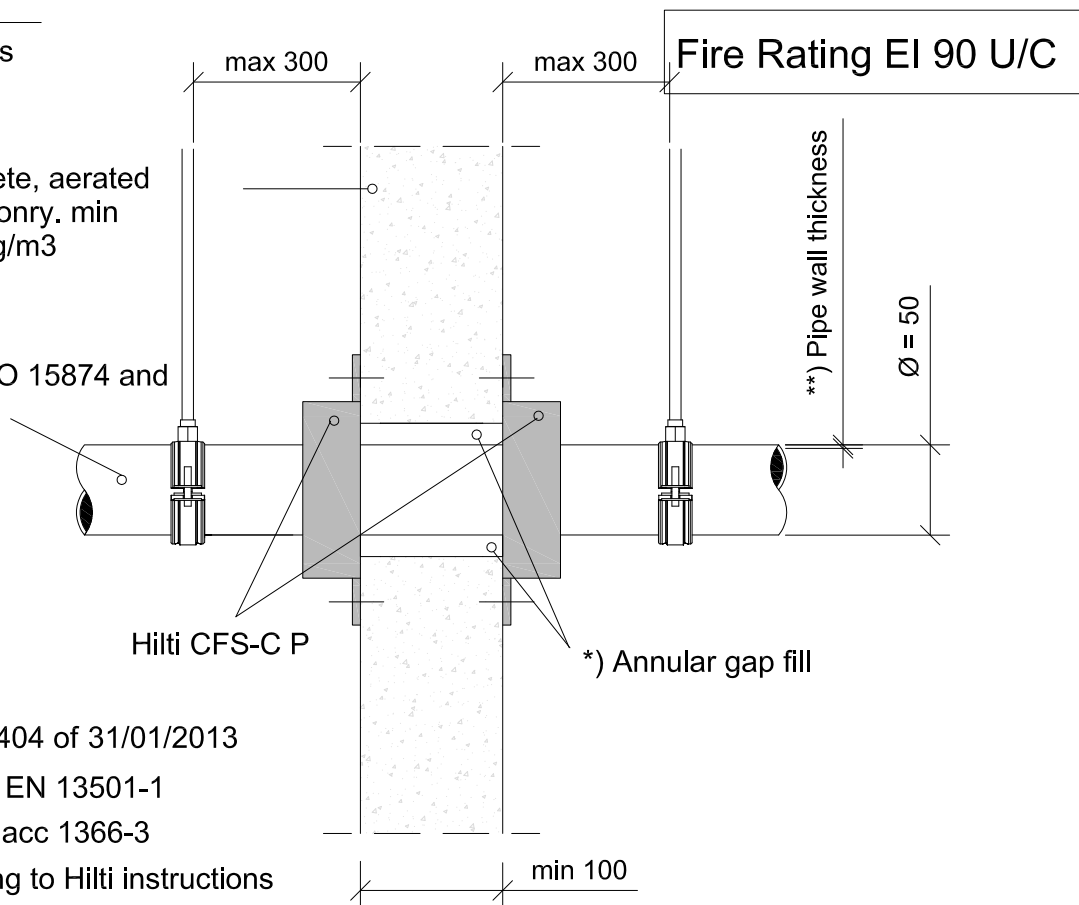
Comprise concrete, aerated concrete or masonry. min density of 450 kg/m<sup>3</sup>

PP pipes acc EN ISO 15874 and DIN 8077/8078

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over the entire thickness of the wall.

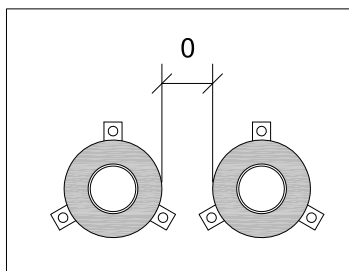
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
50	4.6-8.3	CFS-C P 50/1.5"

Maximum thickness of sound decoupling: 9 mm



Zero distance between annular gap



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0041

## FIRESTOP COLLAR

0041\_01

REV  
00

No scale

All units are in millimetres

Comprise concrete, aerated  
concrete or masonry. min density  
of 450 kg/m<sup>3</sup>

PP pipes acc EN ISO 15874 and  
DIN 8077/8078

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

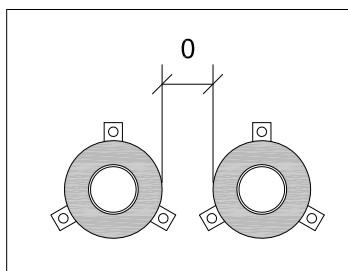
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
50	1.8-2.9	CFS-C P 50/1.5"

Maximum thickness of sound decoupling: 9 mm



Zero distance between annular gap

Fire Rating EI 90 U/U

\*\*) Pipe wall thickness

Ø = 50



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0042

## FIRESTOP COLLAR

0042\_01

REV  
00

No scale

All units are in millimetres

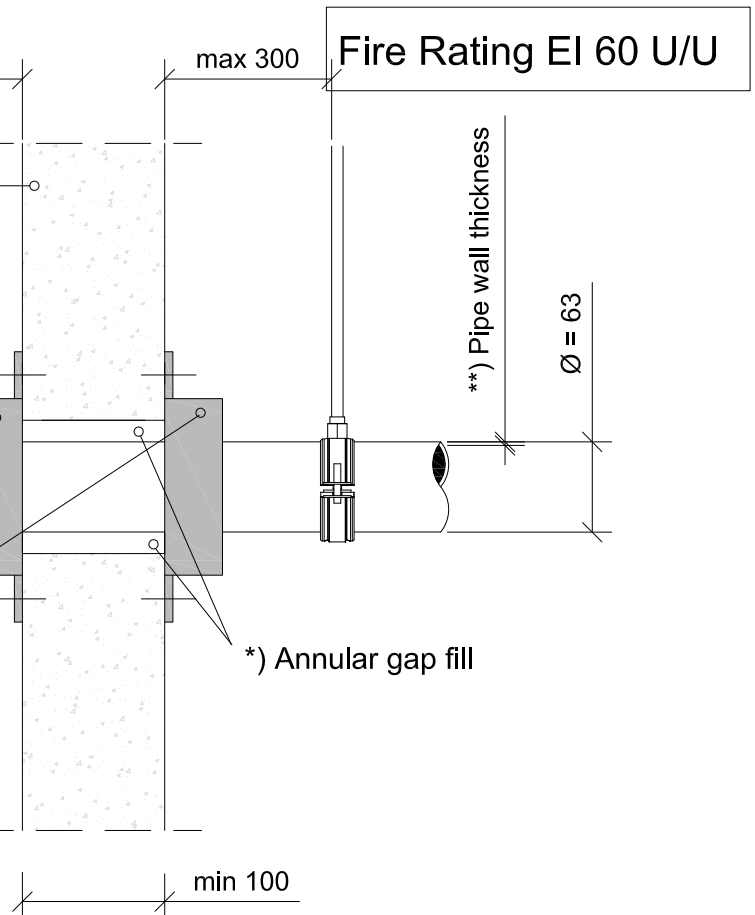
Comprise concrete, aerated  
concrete or masonry. min  
density of 450 kg/m<sup>3</sup>

PP pipes acc EN ISO 15874 and  
DIN 8077/8078

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



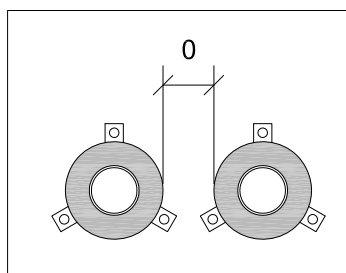
\*) Annular gap fill material

Hilti Firestop Acrylic Sealant CFS-S ACR on  
both sides with depth > 25 mm from the  
surface of the wall.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$



Zero distance between annular gap

\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
63	1.8-5.8	CFS-C P 63/2"

Maximum thickness of sound decoupling: 9 mm



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0043

## FIRESTOP COLLAR

0043\_01

REV  
00

No scale

All units are in millimetres

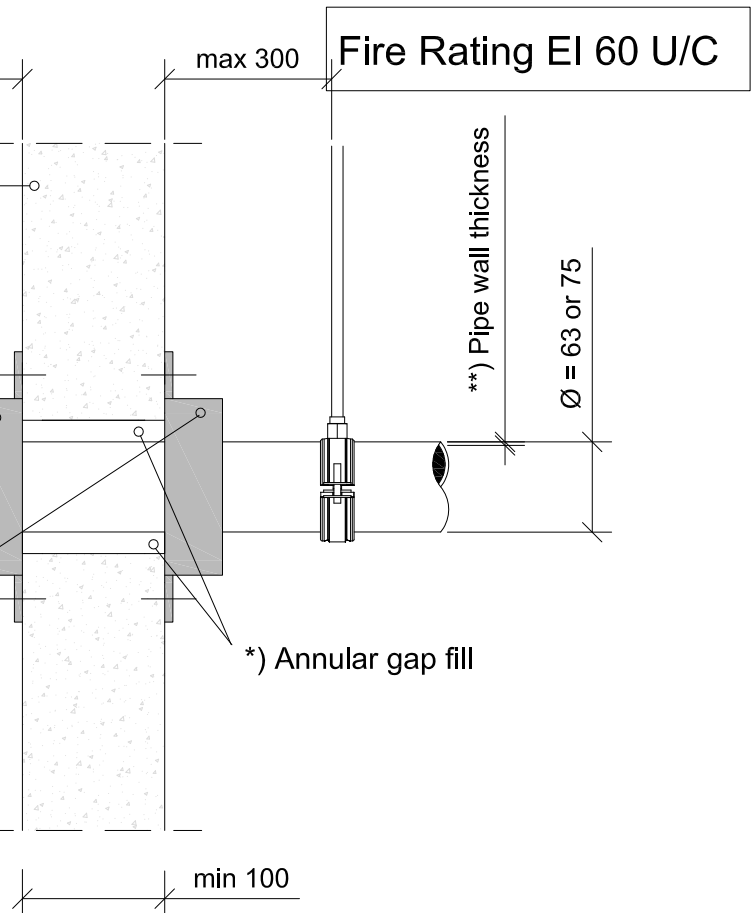
Comprise concrete, aerated  
concrete or masonry. min  
density of 450 kg/m<sup>3</sup>

PP pipes acc EN ISO 15874 and  
DIN 8077/8078

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

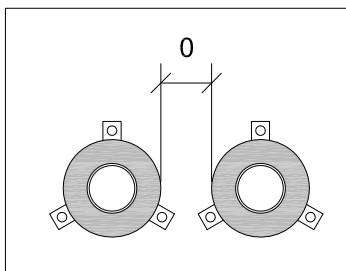
Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe Ø	Pipe wall thickness	Collar Size
63	5.8-10.5	CFS-C P 63/2"
75	1.9-6.8	CFS-C P 75/2.5"

Maximum thickness of sound decoupling: 9 mm



Zero distance between annular gap



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0049

## FIRESTOP COLLAR

0049\_01

REV

00

No scale

All units are in millimetres

Comprise concrete, aerated concrete or masonry. min density of 450 kg/m<sup>3</sup>

PVC-C pipes acc EN 1566-1  
PVC-U pipes acc EN 1329-1, EN 1453-1 and EN ISO 1452

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

Hilti CFS-C P

\*) Annular gap fill

\*) Annular gap fill material

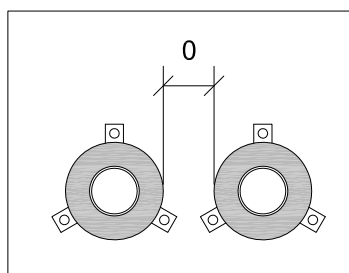
Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 25 mm from the surface of the wall.

Gypsum plaster or cementitious mortar over the entire thickness of the wall.

Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness



Zero distance between annular gap

Pipe Ø	Pipe Wall Thickness	Collar Size
50	2.4-5.6	CFS-C P 50/1.5"
63	3.0-4.7	CFS-C P 63/2"
75	2.2-3.6	CFS-C P 75/2.5"
90	2.7-4.3	CFS-C P 90/3"
110	2.2-8.1	CFS-C P 110/4"
125	3.7-6.0	CFS-C P 125/5"
160	2.5-11.8	CFS-C P 160/6"



## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0050

## FIRESTOP COLLAR

0050\_01

REV  
00

No scale

All units are in millimetres

Comprise concrete, aerated  
concrete or masonry. min  
density of 450 kg/m<sup>3</sup>

PVC-C pipes acc EN 1566-1  
PVC-U pipes acc EN 1329-1, EN  
1453-1 and EN ISO 1452

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

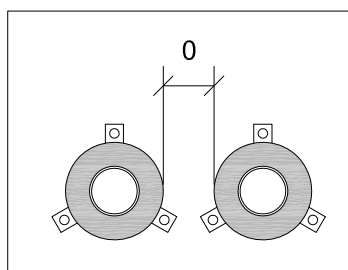
Hilti Firestop Acrylic Sealant CFS-S ACR on  
both sides with depth > 25 mm from the  
surface of the wall.

Gypsum plaster or cementitious mortar over  
the entire thickness of the wall.

Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness



Zero distance between annular gap

Pipe Ø	Pipe Wall Thickness	Collar Size
180	3.6-8.6	CFS-C P 180/7"
200	4.0-9.6	CFS-C P 200/8"
225	4.5-10.8	CFS-C P 225/9"
250	4.9-11.9	CFS-C P 250/10"





## CONTENTS

## Straight plastic pipe in a rigid wall

ID

IND-RW-PP-0051

## FIRESTOP COLLAR

0051\_01

REV

00

No scale

All units are in millimetres

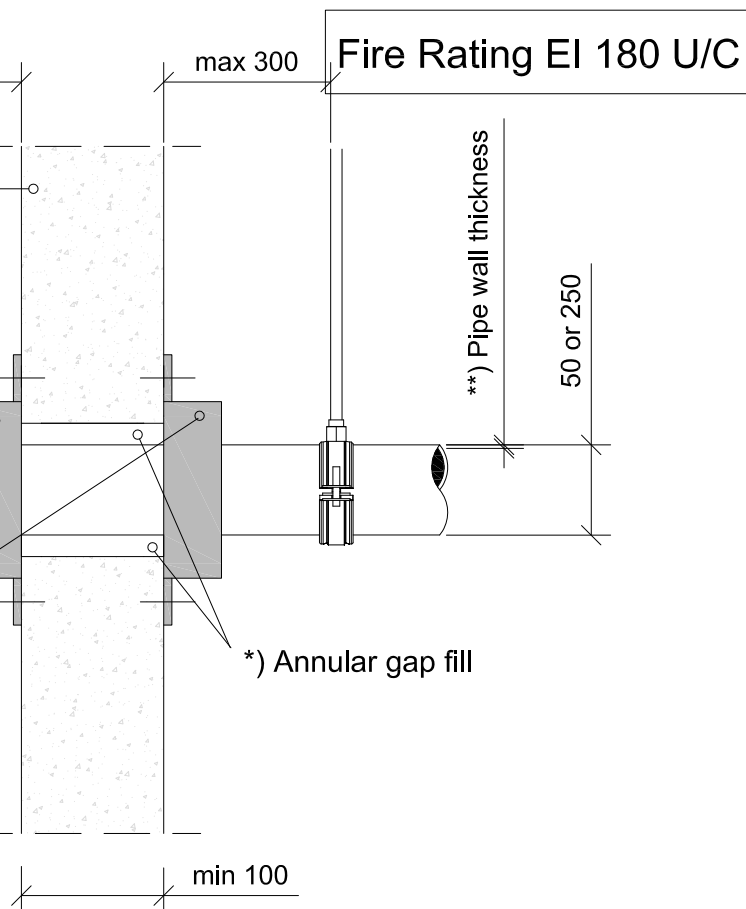
Comprise concrete, aerated concrete or masonry. min density of 450 kg/m<sup>3</sup>

PVC-C pipes acc EN 1566-1  
PVC-U pipes acc EN 1329-1, EN 1453-1 and EN ISO 1452

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 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.

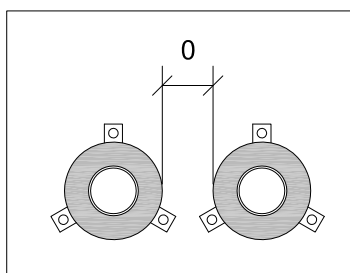
Gypsum plaster or cementitious mortar over the entire thickness of the wall.

Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall thickness

Pipe Ø	Pipe Wall Thickness	Collar Size
50	1.8	CFS-C P 50/1.5"
250	4.9-11.9	CFS-C P 250/10"



Zero distance between annular gap



## CONTENTS

## Al composite pipe in a rigid wall

ID

IND-RW-AL-0093

## FIRESTOP COLLAR

0093\_01

REV

00

No scale

All units are in millimetres

Comprise concrete, aerated concrete or masonry. min density of 450 kg/m<sup>3</sup>

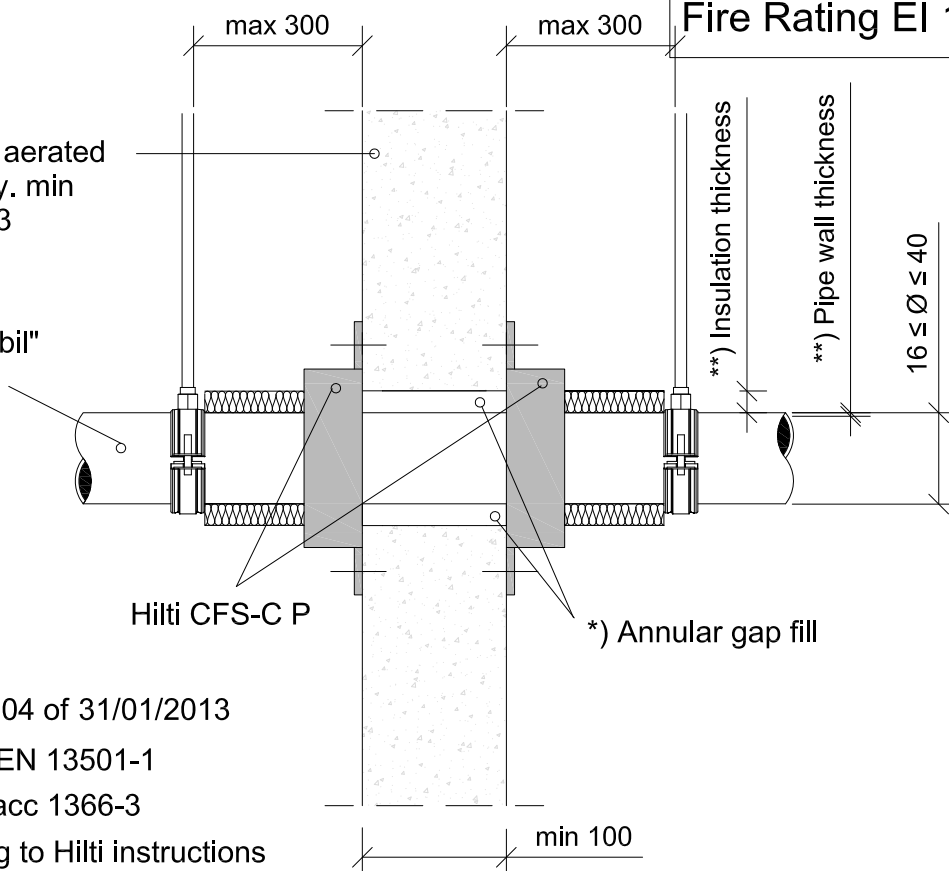
Rehau "Rautitan stabil" (PE-Xb/Al/PE-HD)

Hilti CFS-C P

\*) Annular gap fill

- Approval ETA-14/0404 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

Fire Rating EI 120 U/C



\*) Annular gap fill material

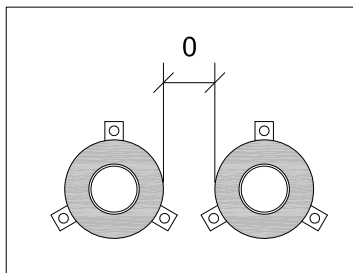
Hilti Firestop Acrylic Sealant CFS-S ACR on both sides with depth > 15 mm from the surface of the wall.

Gypsum plaster or cementitious mortar over the entire thickness of the wall.

Sound Insulation for rigid wall

CFS-C ACR	Cementitious mortar
$D_{n,w} = 58 \text{ dB}$	$D_{n,w} = 59 \text{ dB}$
$R_w = 51 \text{ dB}$	$R_w = 52 \text{ dB}$

\*\*) Pipe wall and insulation thickness - Armaflex AF, continued sustained



Zero distance between annular gap

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Collar Size
16	2.6	11.5	CFS-C P 50/1.5"
20	2.9	11.5-13	CFS-C P 63/2"
25	3.7	11.5-13	CFS-C P 63/2"
32	4.7	13	CFS-C P 63/2"
40	6.0	9	CFS-C P 63/2"