

# Schémas d'applications pour le bandage coupe-feu CFS-B



## Applications de chauffage en voile rigide épaisseur 100mm

- |   |                           |
|---|---------------------------|
| • Tube cuivre avec isolant type Armaflex                            | HEAT-RW-MP-00010/13/14/17 |
| • Tube acier avec isolant type Armaflex                             | HEAT-RW-MP-0037/40/41/42  |
| • Tube acier avec isolant type Armaflex et protection additionnelle | HEAT-RW-MP-0043           |
| • Tube Al composite avec isolant type Armaflex                      | HEAT-RW-AL-0065/66/67/68  |
| • Tube plastique PE sans isolant                                    | HEAT-RW-PP-0092           |

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



CONTENTS

Metal pipe in a rigid wall

ID

HEAT-RW-MP-0010

FIRESTOP BANDAGE

0010\_01

REV  
00

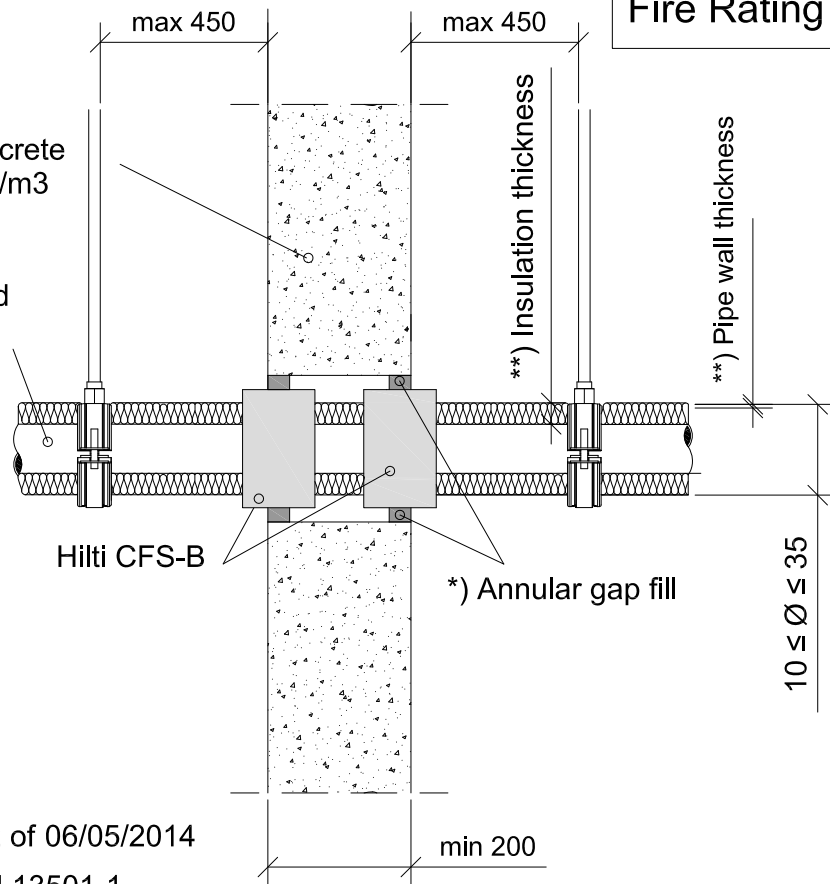
No scale

All units are in millimetres

Fire Rating EI 120 U/C

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\* ) Copper Pipe insulated with elastomeric combustible insulation



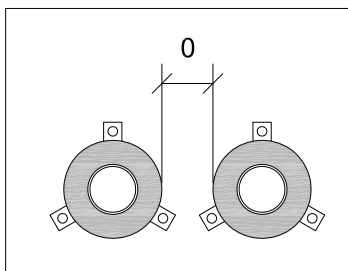
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementitious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\* ) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
10-35	1-14.2	7.5	9.0	15.4	35.0



Zero distance between annular gap

\*\* ) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus



CONTENTS

Metal pipe in a rigid wall

ID

HEAT-RW-MP-0013

FIRESTOP BANDAGE

0013\_01

REV  
00

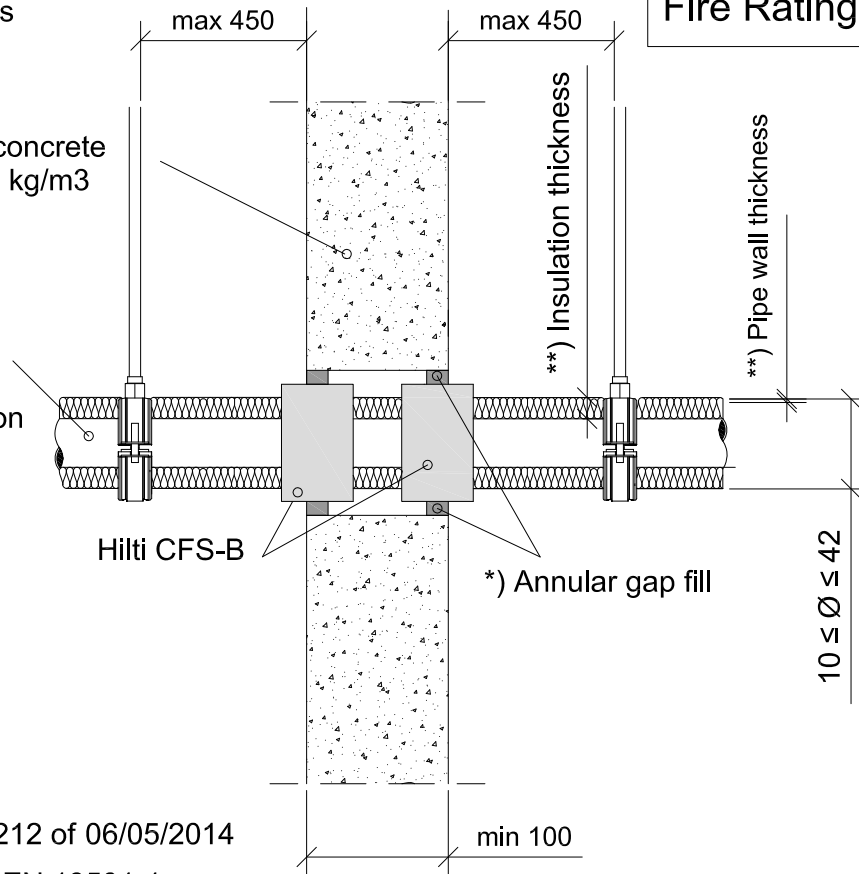
No scale

All units are in millimetres

Fire Rating EI 90 U/C

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\*\*) Copper Pipe insulated with elastomeric combustible insulation



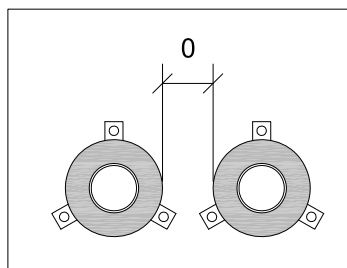
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementitious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
10-18	1-14.2	7.5	8.0	15.4	32.0
18-42	1-14.2	14.5	16.5	33.5	36.5



Zero distance between annular gap

\*\*) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L`isolante K-Flex	L`isolante K-Flex HT, L`isolante K-Flex ECO, L`isolante K-Flex ST, L`isolante K-Flex H, L`isolante K-Flex ST Plus



CONTENTS

# Metal pipe in a rigid wall

ID

HEAT-RW-MP-0014

## FIRESTOP BANDAGE

0014\_01

REV

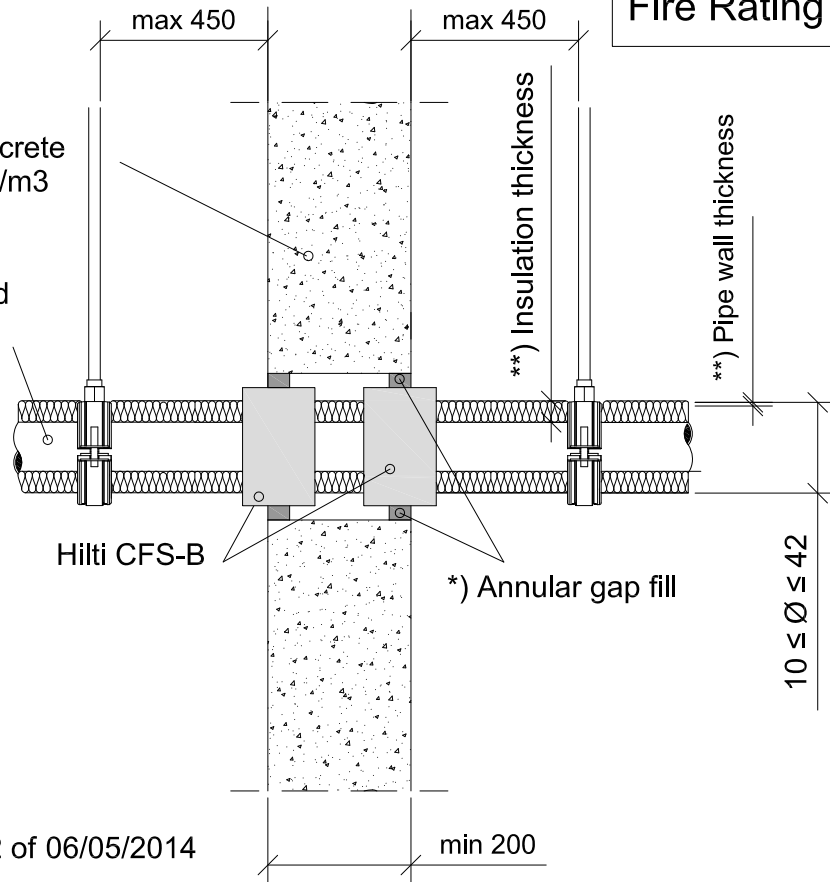
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No scale

All units are in millimetres

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\* ) Copper Pipe insulated with elastomeric combustible insulation



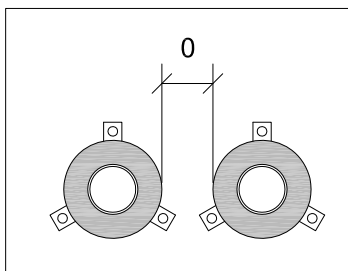
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

### \*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementitious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

### \*\* ) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
10-42	1-14.2	7.5	9.0	15.4	36.5



Zero distance between annular gap

### \*\* ) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus



CONTENTS

Metal pipe in a rigid wall

ID

HEAT-RW-MP-0017

FIRESTOP BANDAGE

0017\_01

REV  
00

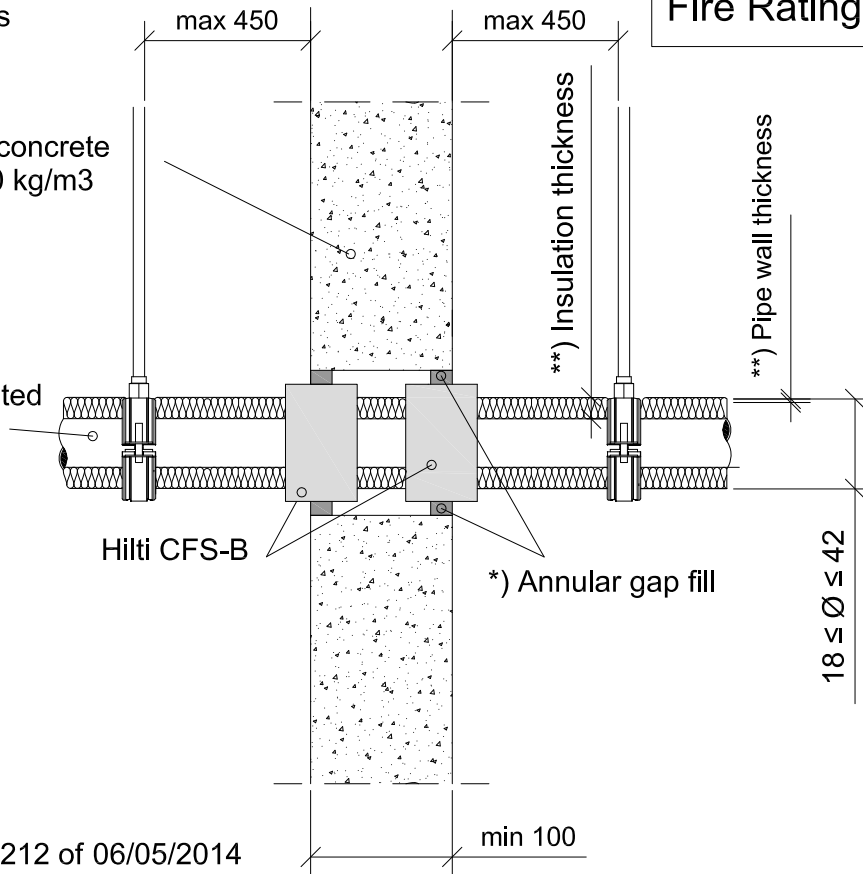
No scale

All units are in millimetres

Fire Rating EI 60 U/C

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\* ) Copper Pipe insulated with elastomeric combustible insulation



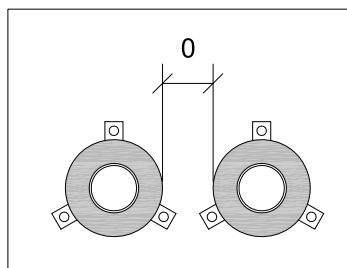
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementitious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\* ) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
18-42	1-14.2	8.0	9.0	33.5	36.5



Zero distance between annular gap

\*\* ) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L`isolante K-Flex	L`isolante K-Flex HT, L`isolante K-Flex ECO, L`isolante K-Flex ST, L`isolante K-Flex H, L`isolante K-Flex ST Plus



CONTENTS

# Metal pipe in a rigid wall

ID

HEAT-RW-MP-0037

## FIRESTOP BANDAGE

0037\_01

REV

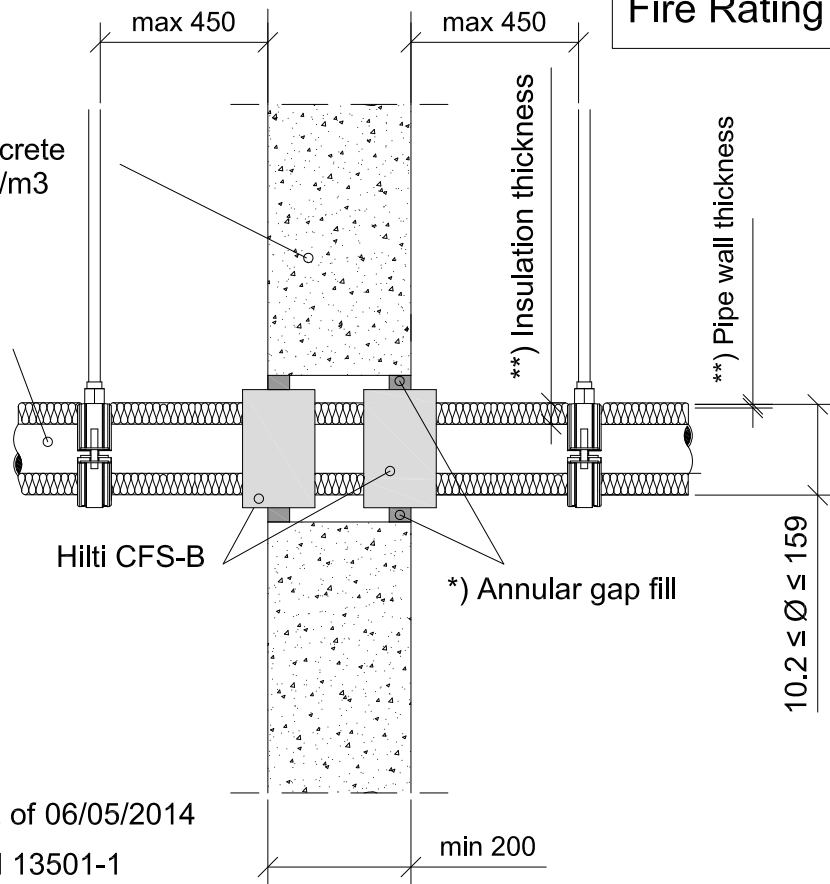
00

No scale

All units are in millimetres

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\*\*) Steel Pipe insulated with elastomeric combustible insulation



- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

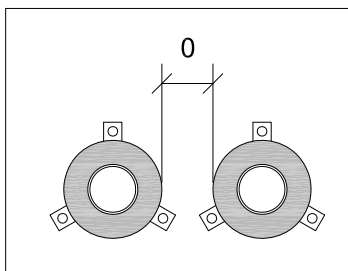
\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
10.2-60	1-14.2	7.5	9.0	32.0	39.0
159	2-14.2	45	45	45	45

Also valid for other metal pipes with lower heat conductivity than copper and a melting point of minimum 1050°C.



Zero distance between annular gap

\*\*) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus



CONTENTS

# Metal pipe in a rigid wall

ID

HEAT-RW-MP-0040

## FIRESTOP BANDAGE

0040\_01

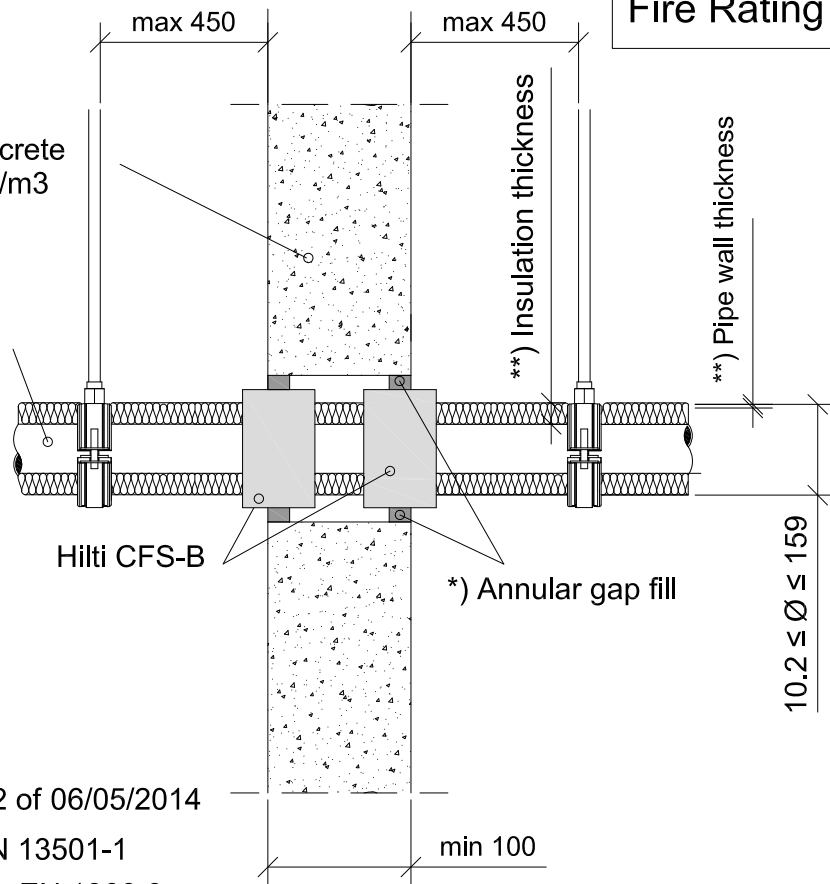
REV  
00

No scale

All units are in millimetres

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\*\*) Steel Pipe insulated with elastomeric combustible insulation



- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

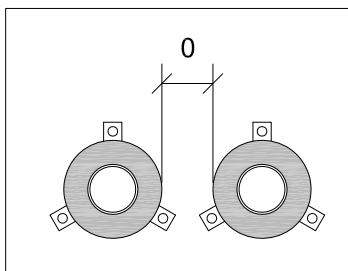
\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
10.2-18	1-14.2	7.5	8.5	15.4	33.5
18-42	1-14.2	14.0	16.5	32.0	36.5
42.4-76	1.4-14.2	16.5	17.5	36.5	40.5
76-159	1.8-14.2	40.5	45.0	40.5	45.0

Also valid for other metal pipes with lower heat conductivity than copper and a melting point of minimum 1050°C.



Zero distance between annular gap

\*\*) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus



CONTENTS

# Metal pipe in a rigid wall

ID

HEAT-RW-MP-0041

## FIRESTOP BANDAGE

0041\_01

REV

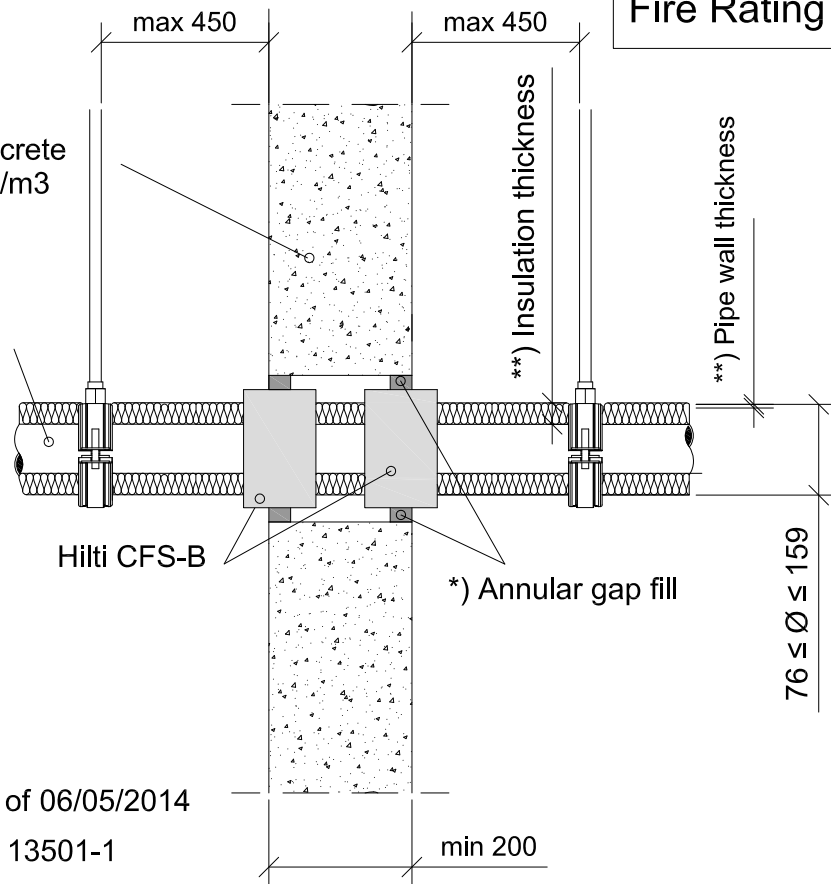
00

No scale

All units are in millimetres

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\*\*) Steel Pipe insulated with elastomeric combustible insulation



- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

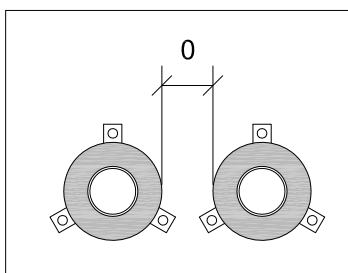
\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
76-159	1.8-14.2	17.5	19	40.5	45.0

Also valid for other metal pipes with lower heat conductivity than copper and a melting point of minimum 1050°C.



Zero distance between annular gap

\*\*) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armcell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus





CONTENTS

# Metal pipe in a rigid wall

ID

HEAT-RW-MP-0042

## FIRESTOP BANDAGE

0042\_01

REV

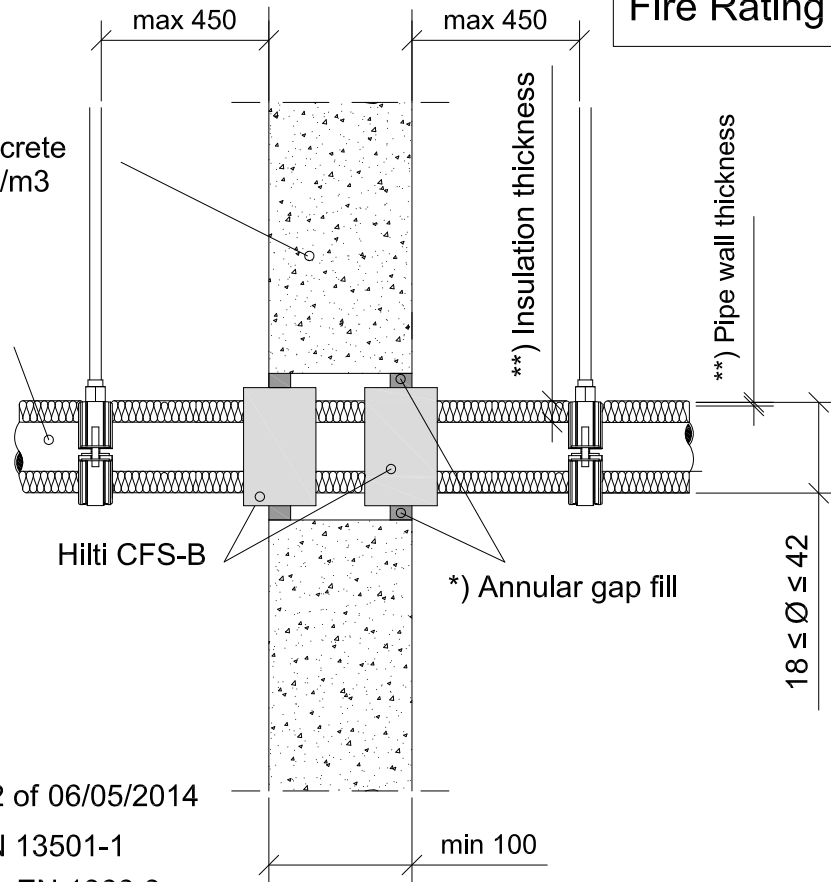
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No scale

All units are in millimetres

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\*\*) Steel Pipe insulated with elastomeric combustible insulation



Fire Rating EI 60 U/C

- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

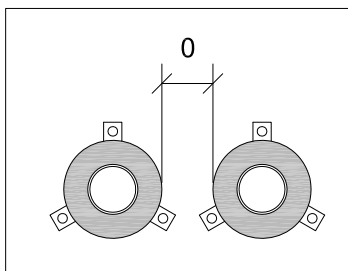
\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
18-42	1-14.2	8.5	9.0	32.0	36.5

Also valid for other metal pipes with lower heat conductivity than copper and a melting point of minimum 1050°C.



Zero distance between annular gap

\*\*) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus



CONTENTS

Metal pipe in a rigid wall

ID

HEAT-RW-MP-0043

FIRESTOP BANDAGE

0043\_01

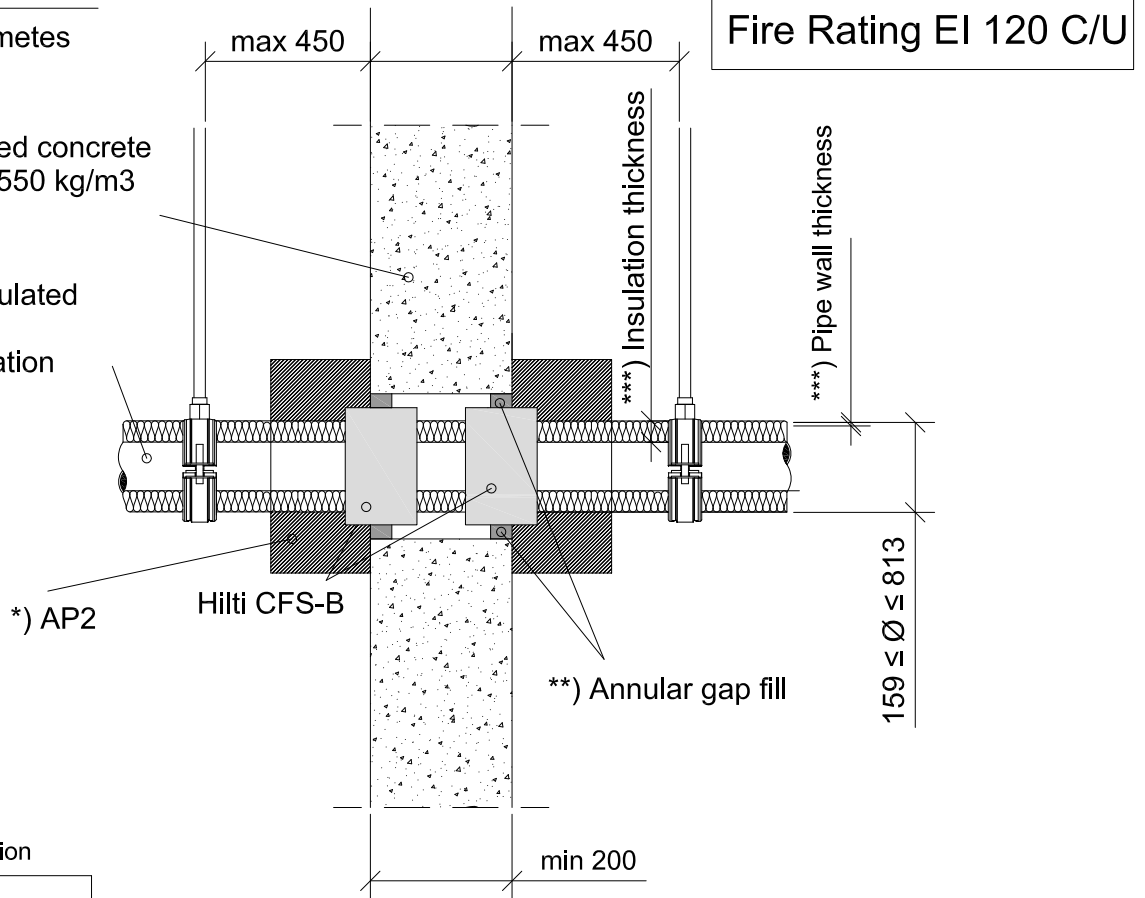
REV  
00

No scale

All units are in millimetres

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>

\*\*\*) Steel Pipe insulated with elastomeric combustible insulation



\*) Additional Protection

AP2
Mineral wool, Rockwool Klimarock, 40 mm thick, 250 mm in length; density approximately 40 kg/m <sup>3</sup> , local interrupted configuration

\*\*\*) Annular gap fill material

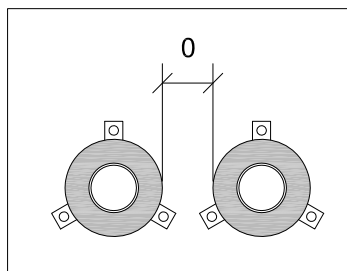
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
159-813	2-14.2	16	25	45	25

Also valid for other metal pipes with lower heat conductivity than copper and a melting point of minimum 1050°C.



Zero distance between annular gap

\*\*\*) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armaceil GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus



CONTENTS

Al composite pipe in a rigid wall

ID

HEAT-RW-AL-0065

FIRESTOP BANDAGE

0065\_01

REV

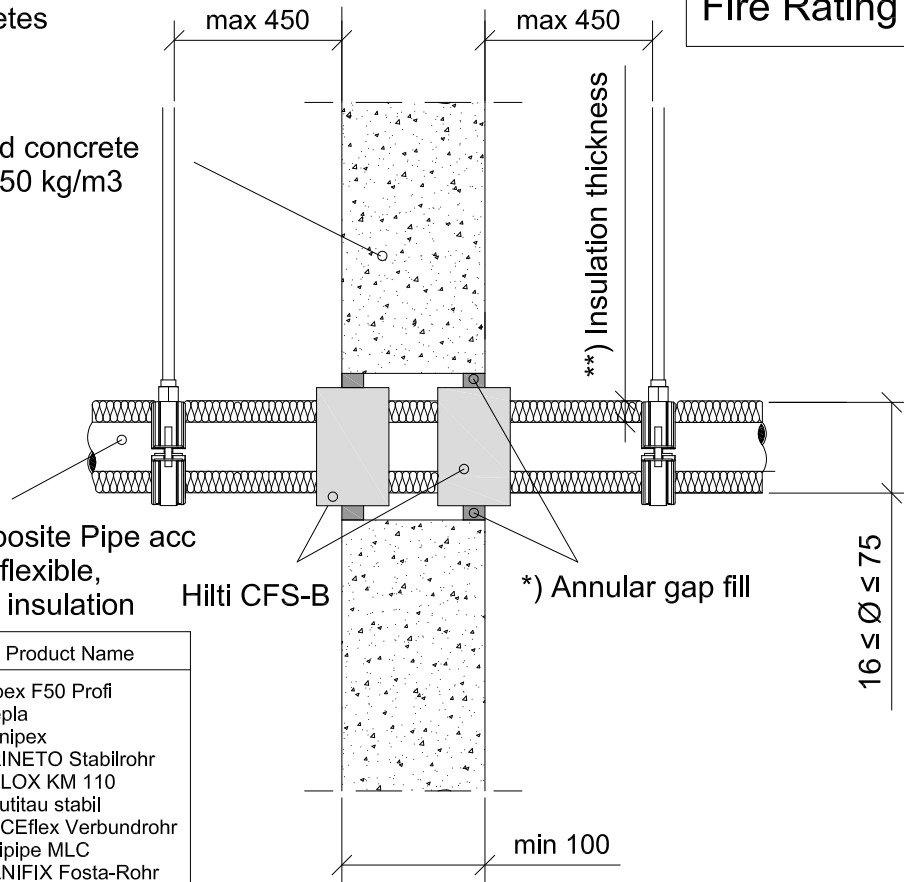
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No scale

All units are in millimetres

Fire Rating EI 120 U/C

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>



\*\*\*) Aluminium Composite Pipe acc EN ISO 21003 with flexible, elastomeric thermal insulation

Manufacturer	Product Name
Frankische Rohrwerke	Alpex F50 Profi
Geberit	Mepla
Georg Fischer	Sanipex
IVT	PRINETO Stabilrohr
Kekelit	KELOX KM 110
Rehau	Rautitau stabil
TECE	TECEflex Verbundrohr
Uponor	Unipipe MLC
Viega	SANIFIX Fosta-Rohr

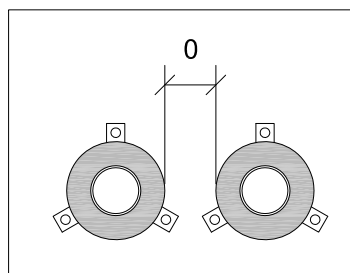
\*\*\*) Insulation thickness

- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

Product Name	Pipe Ø	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
Alpex F50 Profi and Geberit Mepla	50-75	37.5	40.5	37.5	40.5
Sanipex	40-63	9.0	9.0	36.5	39.0
PRINETO Stabilrohr	17-63	32	39	32	39
KELOX KM 110	16-73	32	40.5	32.0	40.5
Rautitau stabil	16-40	32	38.5	32.0	38.5
TECEflex Verbundrohr	16-63	32	40.5	32.0	40.5
Unipipe MLC	16-32	8.0	9.0	32.0	35.0
SANIFIX Fosta-Rohr	16-32	8.0	9.0	32.0	35.0
	16-63	32	39.0	32.0	39.0



Zero distance between annular gap

\*\*\*) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus



CONTENTS

Al composite pipe in a rigid wall

ID

HEAT-RW-AL-0066

FIRESTOP BANDAGE

0066\_01

REV

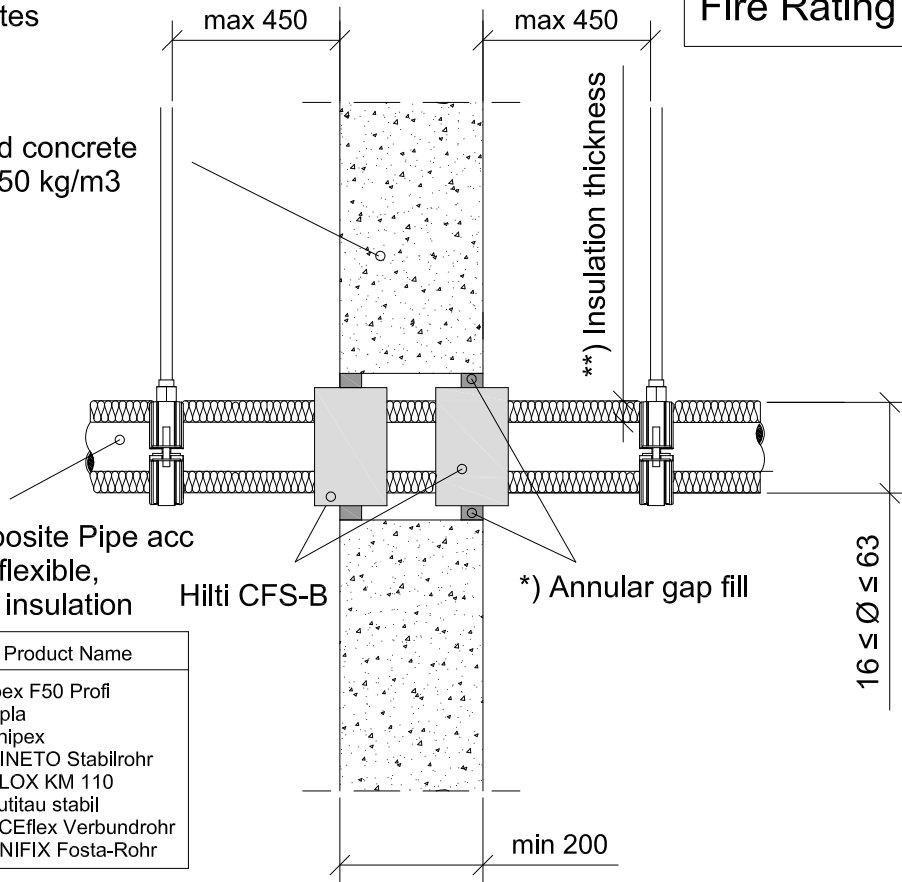
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No scale

All units are in millimetres

Fire Rating EI 120 U/C

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>



\*\* ) Aluminium Composite Pipe acc EN ISO 21003 with flexible, elastomeric thermal insulation

Hilti CFS-B

\*) Annular gap fill

Manufacturer	Product Name
Frankische Rohrwerke	Alpex F50 Profi
Geberit	Mepla
Georg Fischer	Sanipex
IVT	PRINETO Stabilrohr
Kekelit	KELOX KM 110
Rehau	Rautitau stabil
TECE	TECEflex Verbundrohr
Viega	SANIFIX Fosta-Rohr

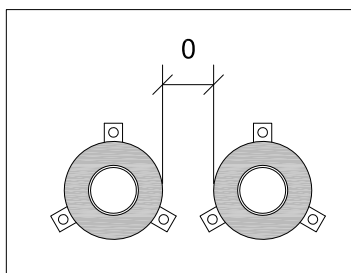
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the floor
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\* ) Pipe wall thickness and insulation

Pipe Ø	Insulation thickness			
	From		To	
	Small Ø	Large Ø	Small Ø	Large Ø
16-63	8.0	9.0	32.0	39.0



Zero distance between annular gap

\*\* ) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armaceil GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L`isolante K-Flex	L`isolante K-Flex HT, L`isolante K-Flex ECO, L`isolante K-Flex ST, L`isolante K-Flex H, L`isolante K-Flex ST Plus



CONTENTS

Al composite pipe in a rigid wall

ID

HEAT-RW-AL-0067

FIRESTOP BANDAGE

0067\_01

REV

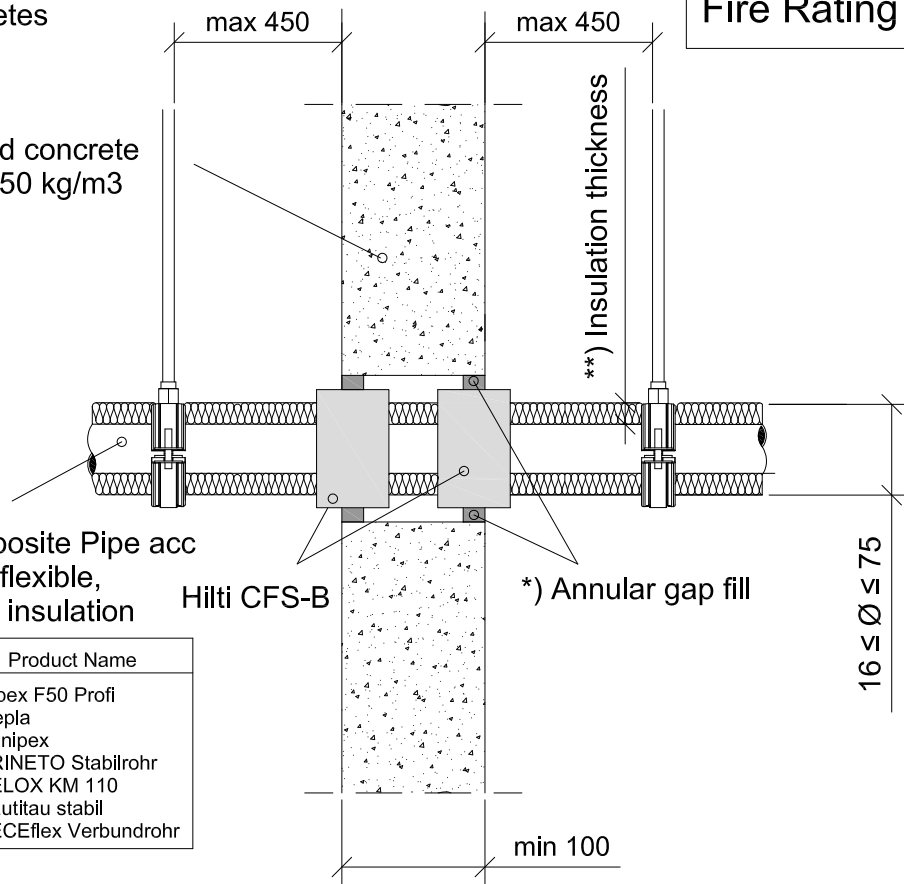
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No scale

All units are in millimetres

Fire Rating EI 90 U/C

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>



\*\*) Aluminium Composite Pipe acc EN ISO 21003 with flexible, elastomeric thermal insulation

Manufacturer	Product Name
Frankische Rohrwerke	Alpex F50 Profi
Geberit	Mepla
Georg Fischer	Sanipex
IVT	PRINETO Stabilrohr
Kekelit	KELOX KM 110
Rehau	Rautitau stabil
TECE	TECEflex Verbundrohr

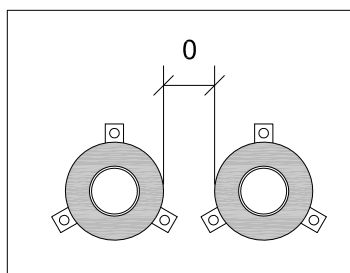
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*) Insulation thickness

Product Name	Pipe Ø	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
Alpex F50 Profi, Geberit Mepla and Sanipex	16-32	8.0	9.0	32.0	35.0
PRINETO Stabilrohr	17-52	8.0	9.0	32.0	37.5
KELOX KM 110	16-75	8.0	14.0	32.0	40.5
Rautitau stabil	16-40	8.0	9.0	32.0	38.5
TECEflex Verbundrohr	16-50	8.0	9.0	32.0	37.5

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.



Zero distance between annular gap

\*\*) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L'isolante K-Flex	L'isolante K-Flex HT, L'isolante K-Flex ECO, L'isolante K-Flex ST, L'isolante K-Flex H, L'isolante K-Flex ST Plus



CONTENTS

Al composite pipe in a rigid wall

ID

HEAT-RW-AL-0068

FIRESTOP BANDAGE

0068\_01

REV

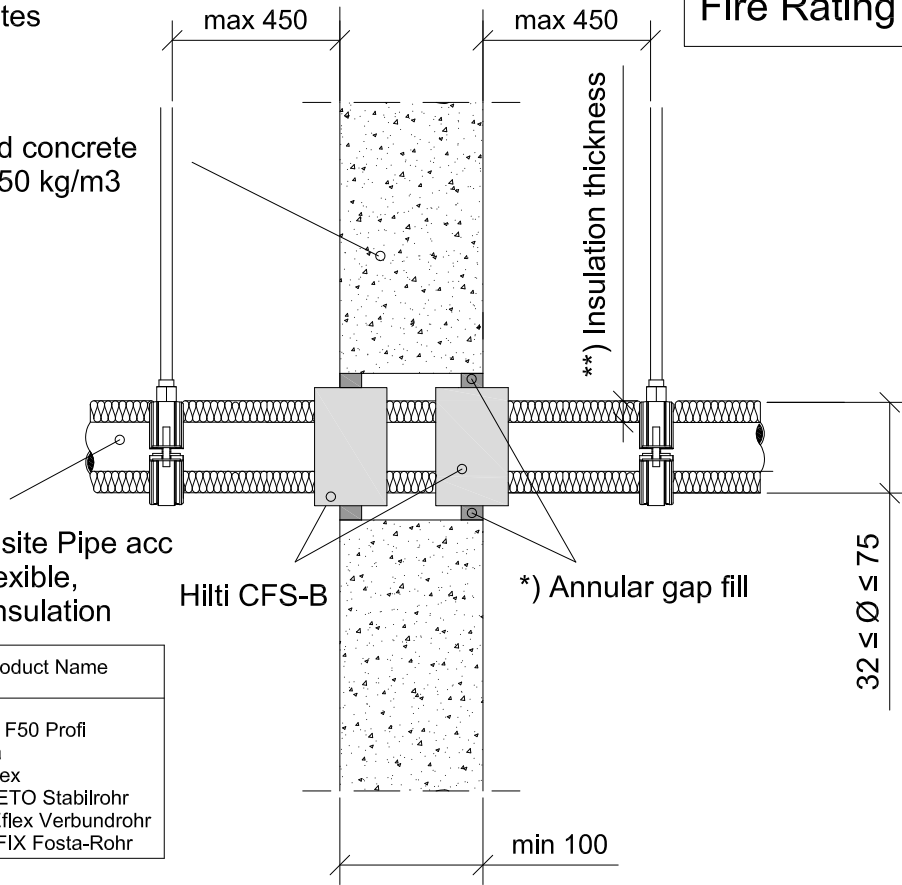
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No scale

All units are in millimetres

Fire Rating EI 60 U/C

Concrete, aerated concrete or masonry, min 550 kg/m<sup>3</sup>



\*\* ) Aluminium Composite Pipe acc EN ISO 21003 with flexible, elastomeric thermal insulation

Manufacturer	Product Name
Frankische Rohrwerke	Alpex F50 Profi
Geberit	Mepla
Georg Fischer	Sanipex
IVT	PRINETO Stabilrohr
TECE	TECEflex Verbundrohr
Viega	SANIFIX Fosta-Rohr

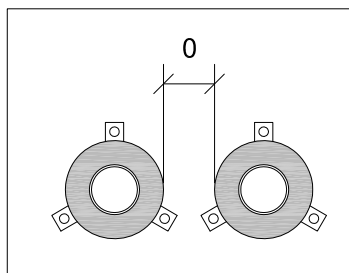
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\* ) Insulation thickness

Product Name	Pipe Ø	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
Alpex F50 Profi and Geberit Mepla	32-40	9.0	9.0	35.0	36.5
	50-75	9.0	9.0	37.5	40.5
Sanipex	32-40	9.0	9.0	35.0	36.5
	50-63	9.0	9.0	37.5	39.0
PRINETO Stabilrohr	52-63	9.0	9.0	37.5	39.0
TECEflex Verbundrohr	63	9.0	9.0	29.0	29.0
SANIFIX Fosta-Rohr	32-63	9.0	9.0	36.5	39.0

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.



Zero distance between annular gap

\*\* ) List of approved elastomeric combustible insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L`isolante K-Flex	L`isolante K-Flex HT, L`isolante K-Flex ECO, L`isolante K-Flex ST, L`isolante K-Flex H, L`isolante K-Flex ST Plus



CONTENTS

Plastic pipe in a rigid wall

ID

HEAT-RW-PP-0092

FIRESTOP BANDAGE

0092\_01

REV  
00

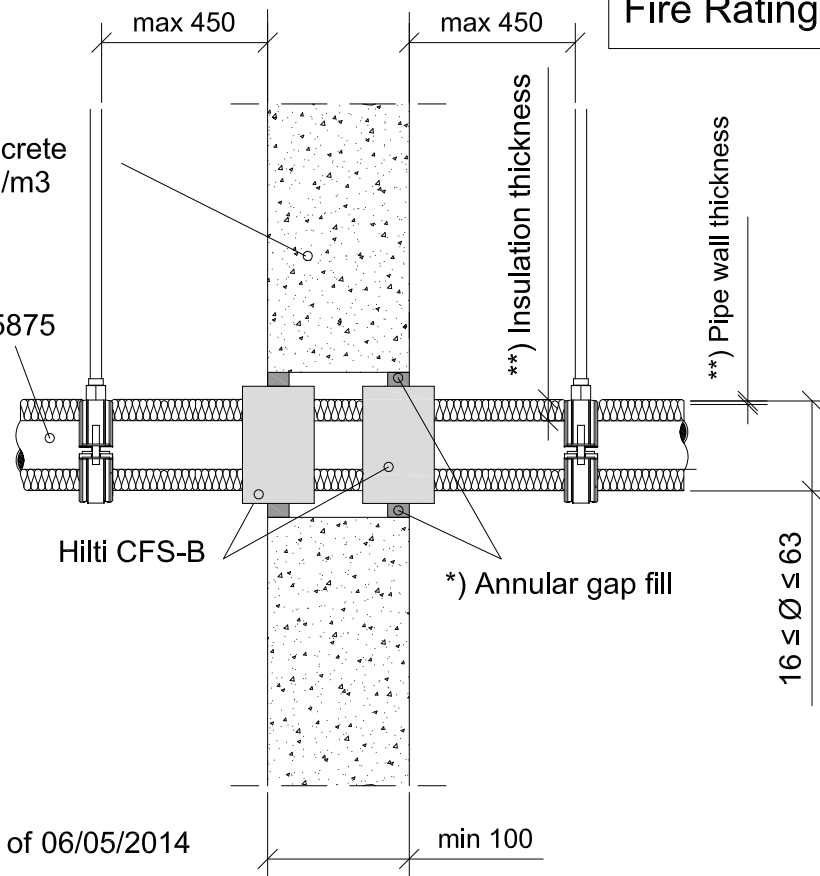
No scale

All units are in millimetres

Fire Rating EI 120 U/C

Concrete, aerated concrete  
or masonry, min 550 kg/m<sup>3</sup>

\*\* ) PE-Xa acc. EN ISO 15875



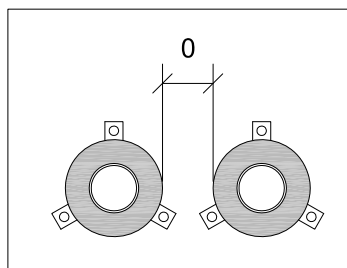
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR only with a depth > 25 mm on both sides of the wall.
0-50	Cementious mortar acc EN 998-2, class M10 or gypsum over the entire thickness of the wall.

\*\* ) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
16-63	2.2-8.6	8.0	9.0	32.0	39.0



Zero distance between annular gap

\*\* ) List of approved elastomeric combustibile insulation types

Product	Approved tpe of foamed elastomeric thermal insulation
Armacell GmbH	Armaflex AF, Armaflex SH, Armaflex Ultima, Armaflex HT
NMC Group	Insul-Tube (nmc), Insul-Tube H-plus (nmc)
Kaimann GmbH	Kaiflex KK plus, Kaiflex KK
L`isolante K-Flex	L`isolante K-Flex HT, L`isolante K-Flex ECO, L`isolante K-Flex ST, L`isolante K-Flex H, L`isolante K-Flex ST Plus