

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



## Applications pour réfrigération en cloison épaisseur 100 mm

- |  |                       |
|--|-----------------------|
| • Tube cuivre avec isolant type Armaflex                                   | REFR-FW-MP-0005/6     |
| • Tube cuivre avec isolant type Armaflex et protection additionnelle       | REFR-FW-MP-0007/8/9   |
| • Tube acier avec isolant type Armaflex                                    | REFR-FW-MP-0030/34    |
| • Tube acier avec isolant type Armaflex et protection additionnelle        | REFR-FW-MP-0029/31    |
| • Tube Al composite avec isolant type Armaflex et protection additionnelle | REFR-FW-AL-0054       |
| • Tube Al composite avec isolant type Armaflex                             | REFR-FW-AL-0055/56/57 |
| • Tube plastique PE HD sans isolant  | REFR-FW-PP-0089       |

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



CONTENTS

Metal pipe in a flexible wall

ID

REFR-FW-MP-0005

FIRESTOP BANDAGE

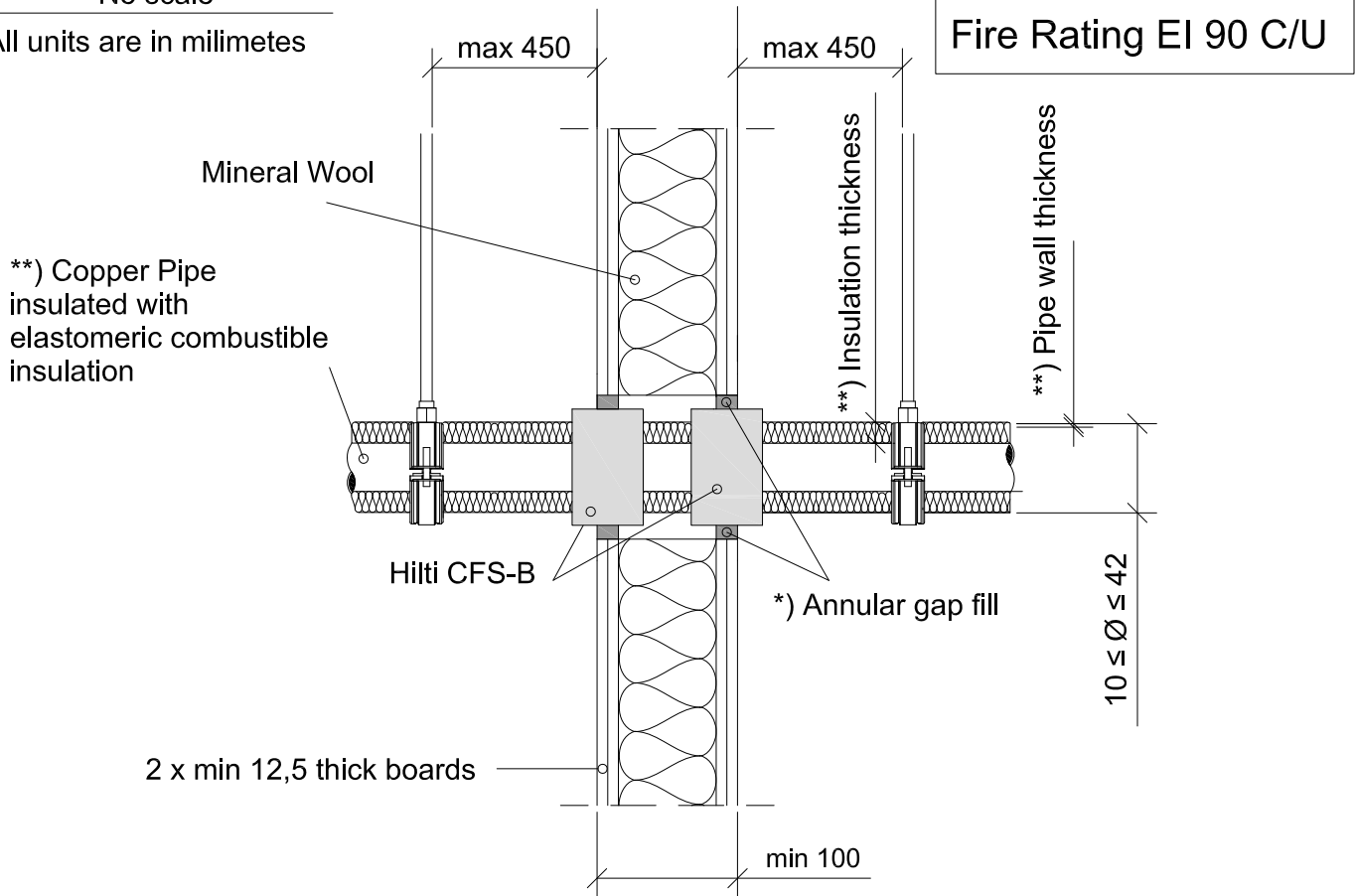
0005\_01

REV  
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No scale

All units are in millimetres

Fire Rating EI 90 C/U



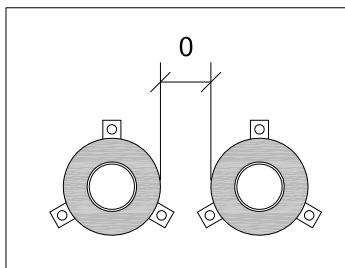
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
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

\*) Annular gap fill material

Gap wth (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides of the wall



Zero distance between annular gap

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

Product	Approved tpe of foamed elastomeric thermal insulation
Armaceff 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 flexible wall

ID

REFR-FW-MP-0006

FIRESTOP BANDAGE

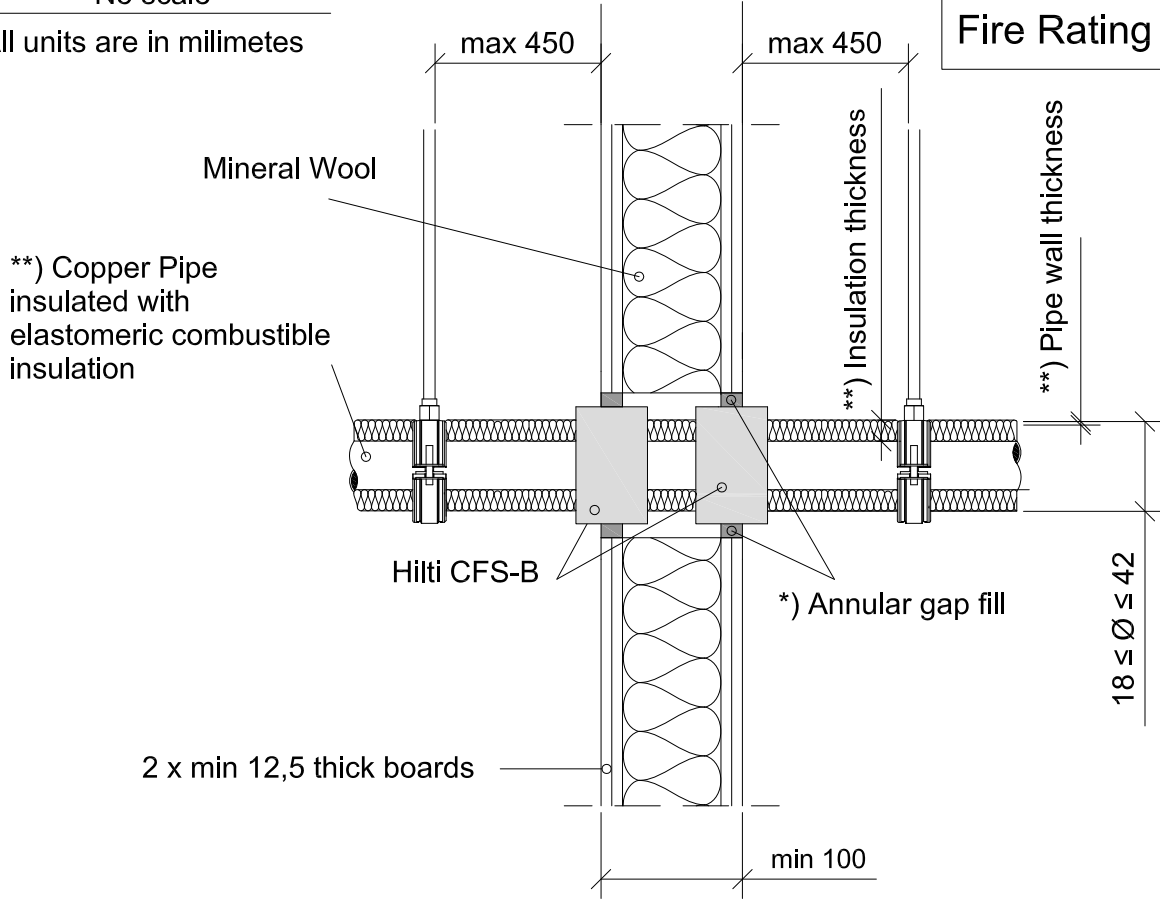
0006\_01

REV  
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No scale

All units are in millimetres

Fire Rating EI 60 C/U



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

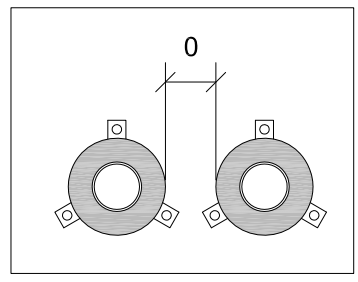
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*) Pipe wall thickness and insulation

\*) Annular gap fill material

Gap wth (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides of the wall

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
Armaceff 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 flexible wall

ID

REFR-FW-MP-0007

FIRESTOP BANDAGE

0007\_01

REV

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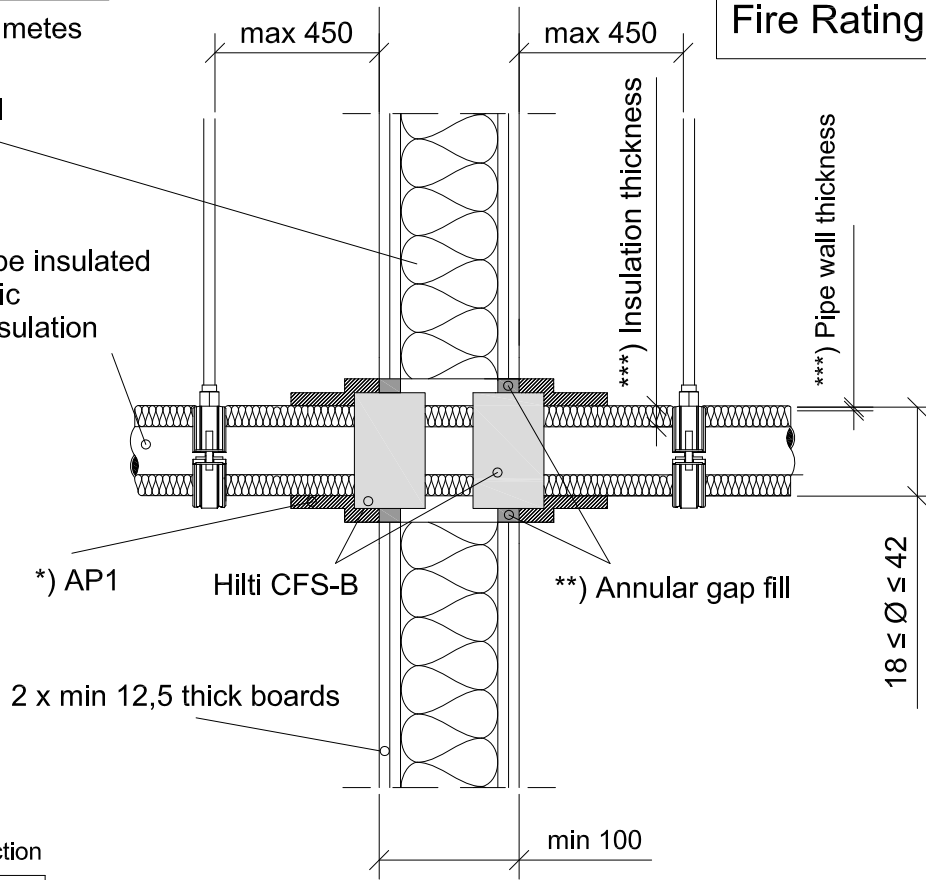
No scale

All units are in millimetres

Fire Rating EI 90 C/U

Mineral Wool

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



\*) Additional Protection

AP1
Armaflex AF elastomeric material for thermal insulation, 19 mm thick and 250 mm in length, local interrupted configuration

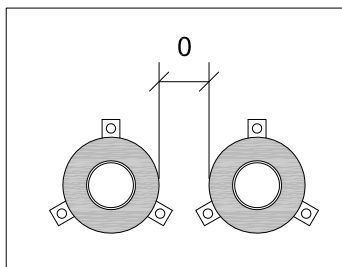
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides 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 flexible wall

ID

REFR-FW-MP-0008

FIRESTOP BANDAGE

0008\_01

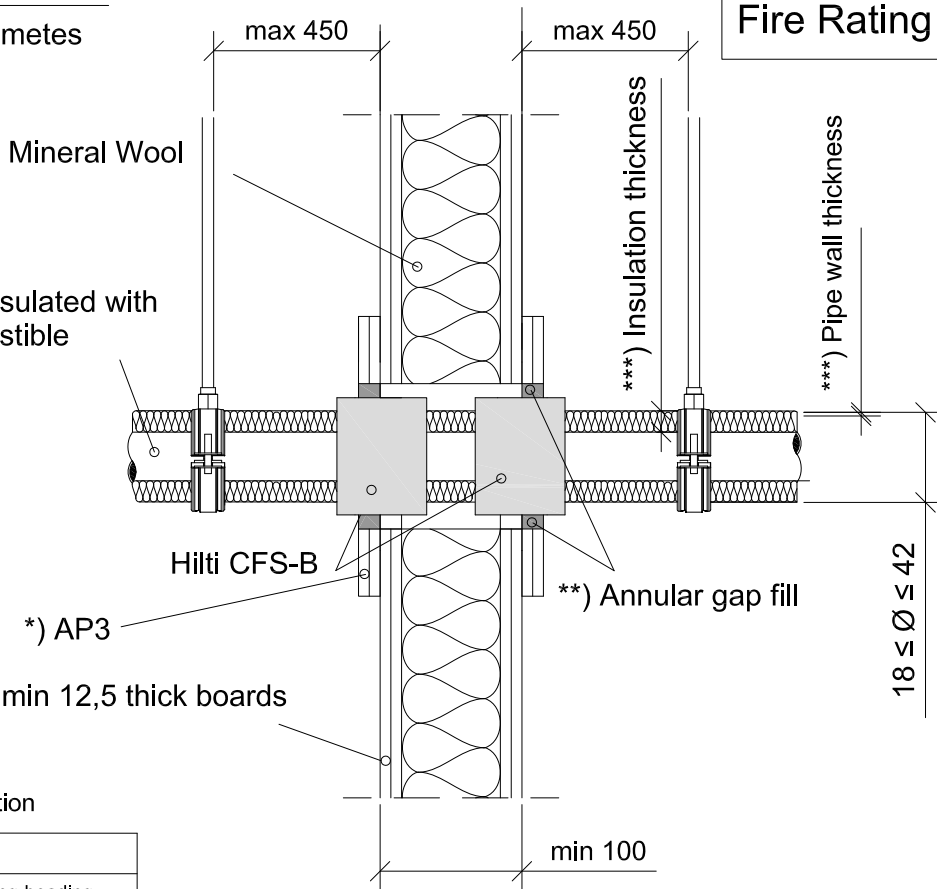
REV  
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No scale

All units are in milimetres

Fire Rating EI 90 C/U

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



\*) Additional Protection

AP3
Beading/outside framing-beading for flexible wall (100mm) is applied by adding boards on both sides in two layers (2x12.5 mm Type F board) fixed with drywall screws. The resulting strips around the whole pipe are at least 50 mm in width.

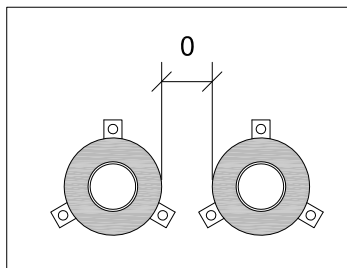
\*\*\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides 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
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
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

Metal pipe in a flexible wall

ID

REFR-FW-MP-0009

FIRESTOP BANDAGE

0009\_01

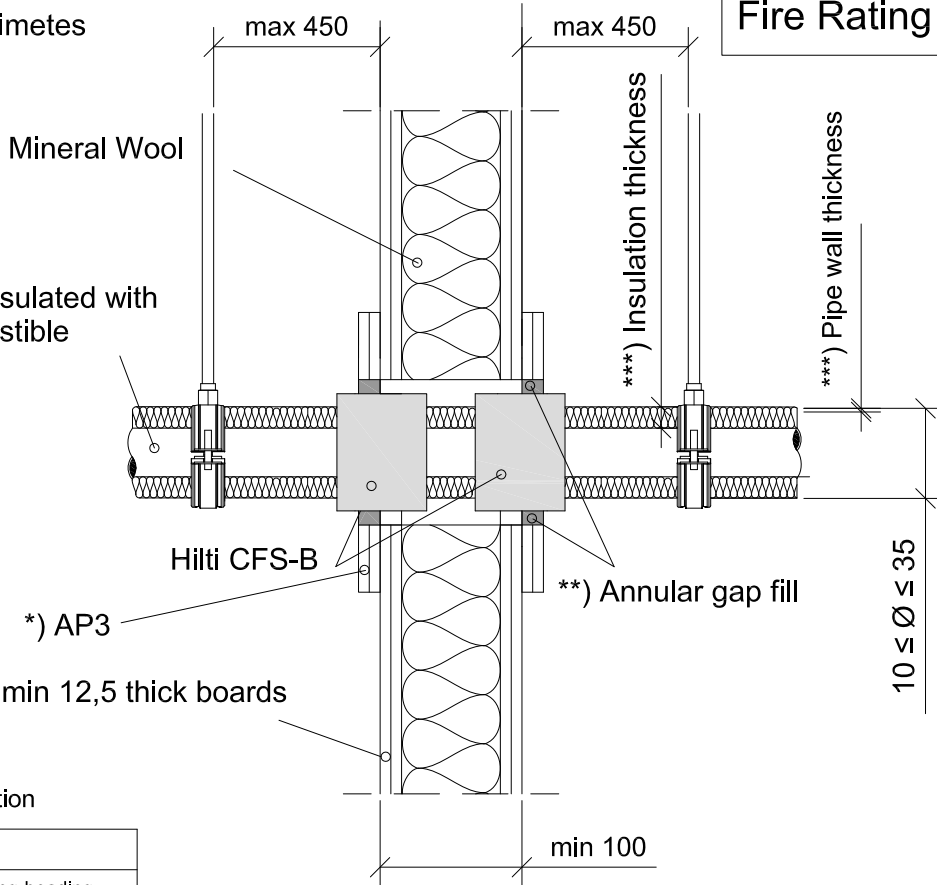
REV  
00

No scale

All units are in millimetres

Fire Rating EI 120 C/U

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



\*) Additional Protection

AP3
Beading/outside framing-beading for flexible wall (100mm) is applied by adding boards on both sides in two layers (2x12.5 mm Type F board) fixed with drywall screws. The resulting strips around the whole pipe are at least 50 mm in width.

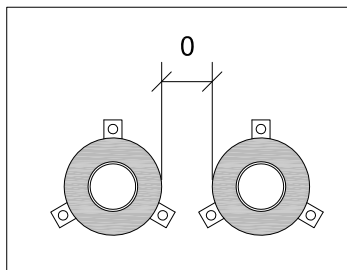
\*\*\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides 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
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

Approved product	Approved type of foamed elastomeric thermal insulation
	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 flexible wall

ID

REFR-FW-MP-0029

FIRESTOP BANDAGE

0029\_01

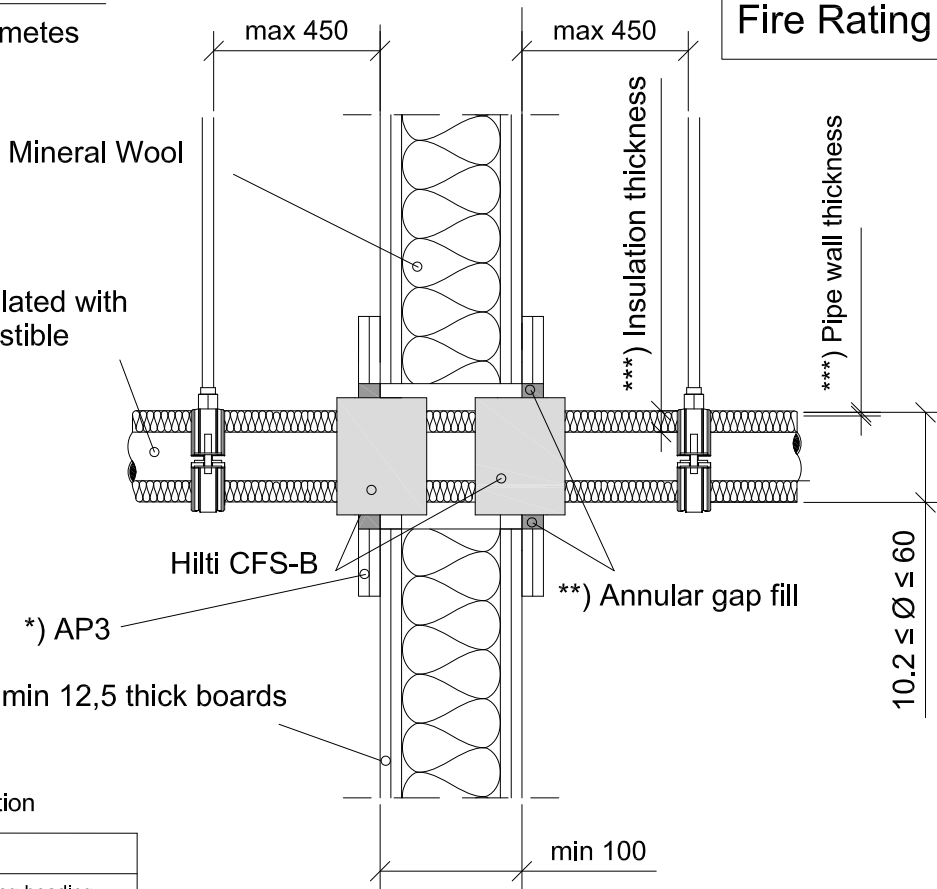
REV  
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No scale

All units are in millimetres

Fire Rating EI 120 C/U

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



\*) Additional Protection

AP3
Beading/outside framing-beading for flexible wall (100mm) is applied by adding boards on both sides in two layers (2x12.5 mm Type F board) fixed with drywall screws. The resulting strips around the whole pipe are at least 50 mm in width.

\*\*\*) Annular gap fill material

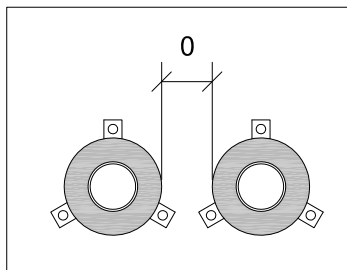
Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides of the wall

- 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
10.2-60	1-14.2	7.5	9.0	15.4	39.0

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 flexible wall

ID

REFR-FW-MP-0030

FIRESTOP BANDAGE

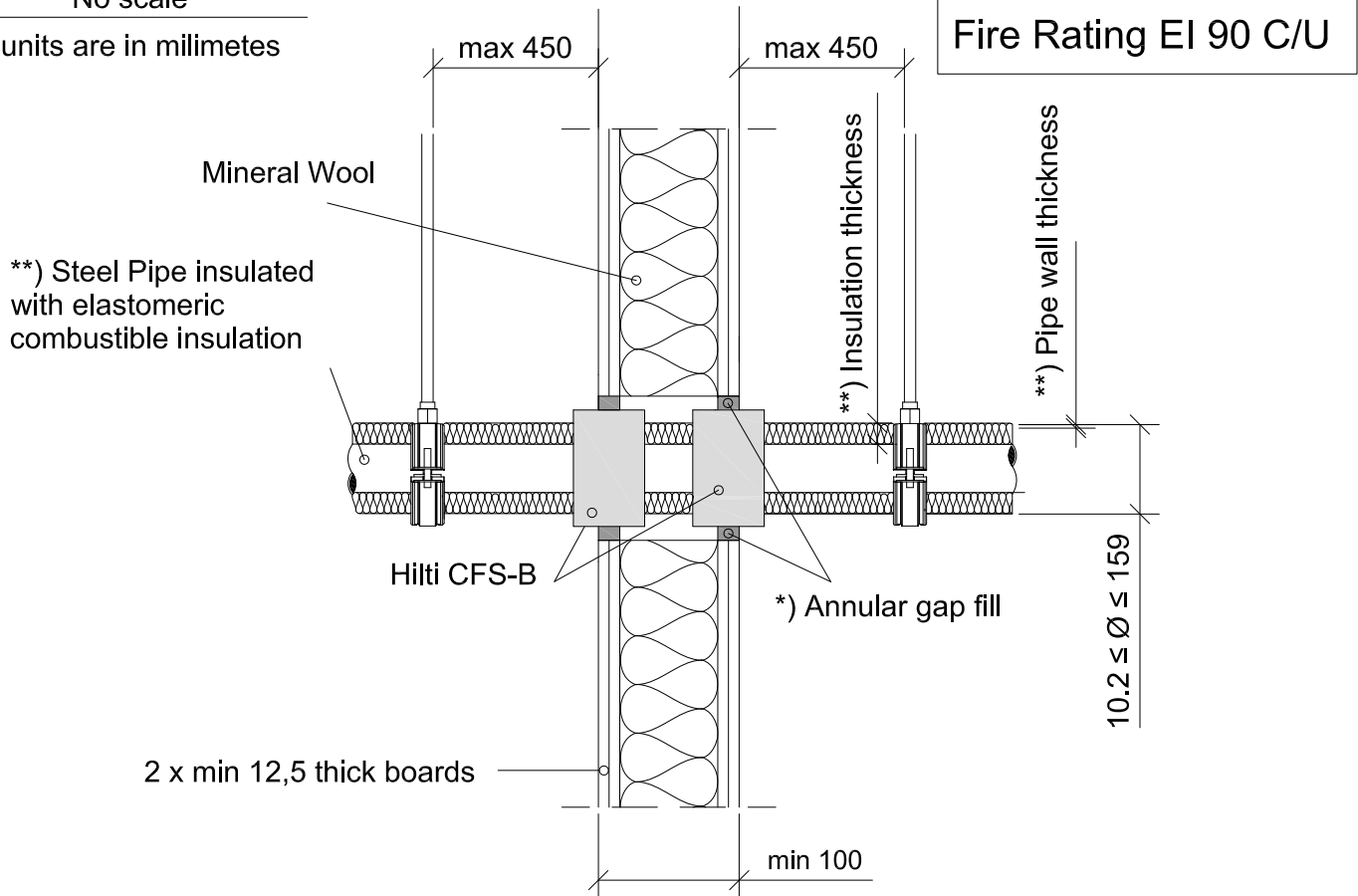
0030\_01

REV  
00

No scale

All units are in millimetres

Fire Rating EI 90 C/U



- 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

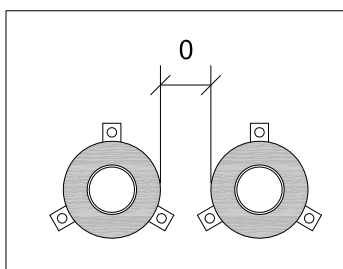
\*\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
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.

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides 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

Metal pipe in a flexible wall

ID

REFR-FW-MP-0031

FIRESTOP BANDAGE

0031\_01

REV

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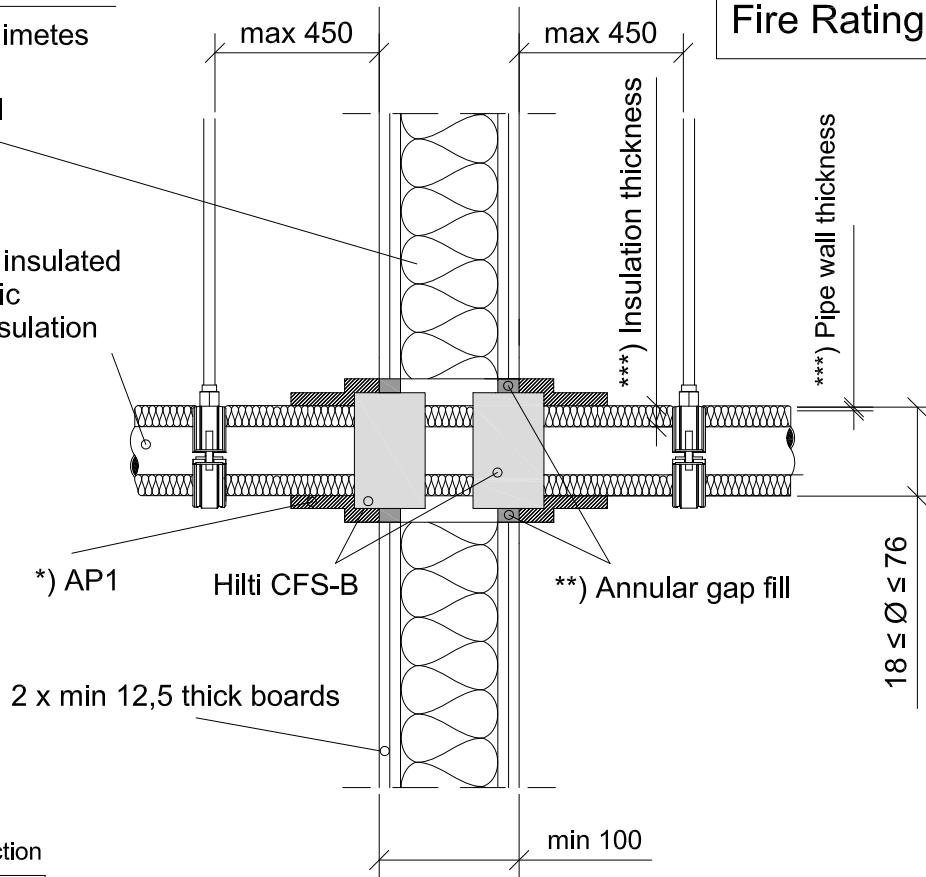
No scale

All units are in millimetres

Fire Rating EI 90 C/U

Mineral Wool

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



\*) Additional Protection

AP1
Armaflex AF elastomeric material for thermal insulation, 19 mm thick and 250 mm in length, local interrupted configuration

- 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

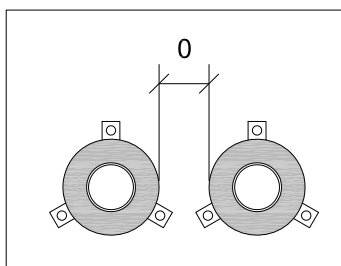
\*\*\*) Annular gap fill material

Gap width (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides 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
10.2-76	1-14.2	7.5	9.5	15.4	40.5

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 type 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

Metal pipe in a flexible wall

ID

REFR-FW-MP-0034

FIRESTOP BANDAGE

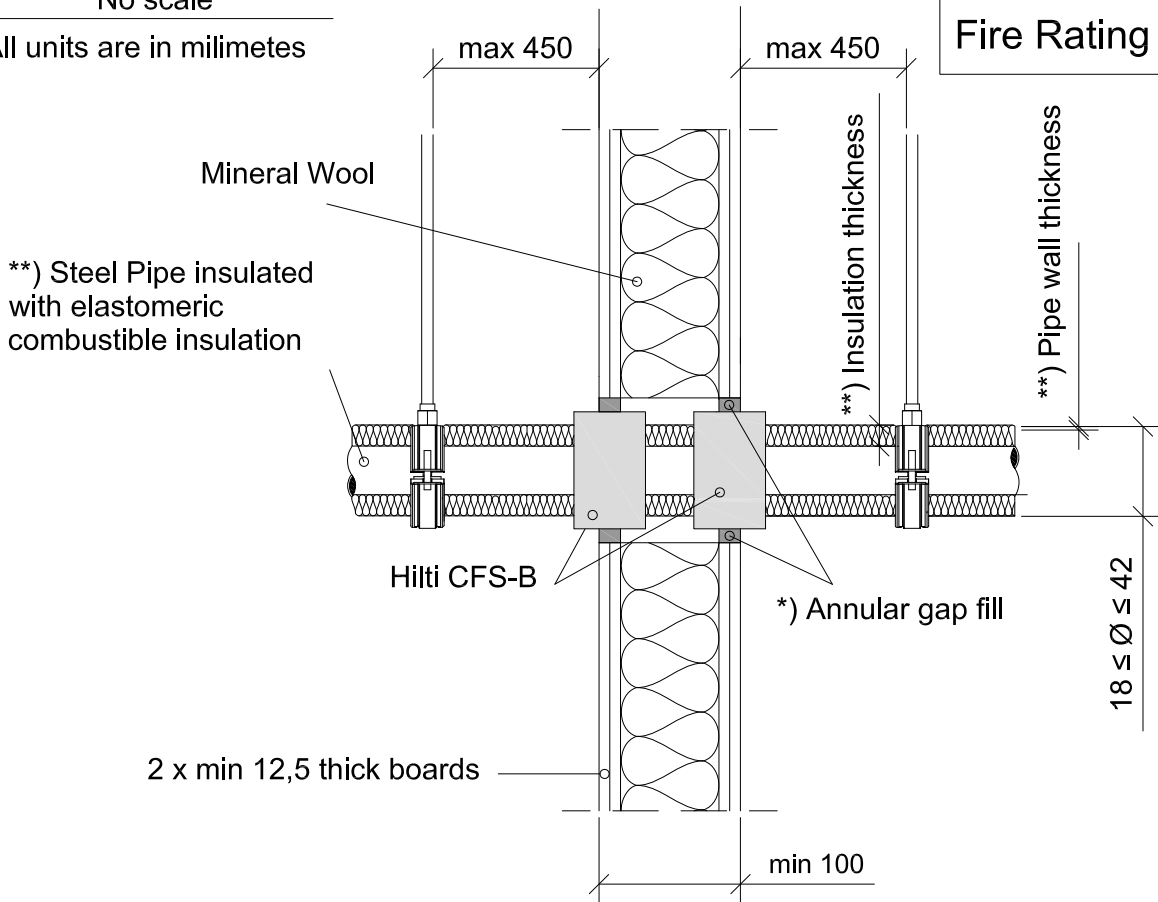
0034\_01

REV  
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No scale

All units are in millimetres

Fire Rating EI 60 C/U



- 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

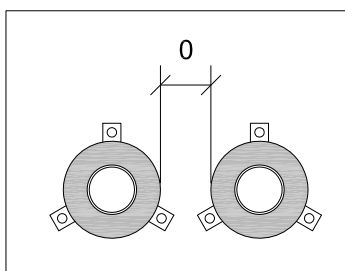
\*\*) Pipe wall thickness and insulation

Pipe Ø	Pipe wall thickness	Insulation thickness			
		From		To	
		Small Ø	Large Ø	Small Ø	Large Ø
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.

\* ) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides 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 flexible wall

ID

REFR-FW-AL-0054

FIRESTOP BANDAGE

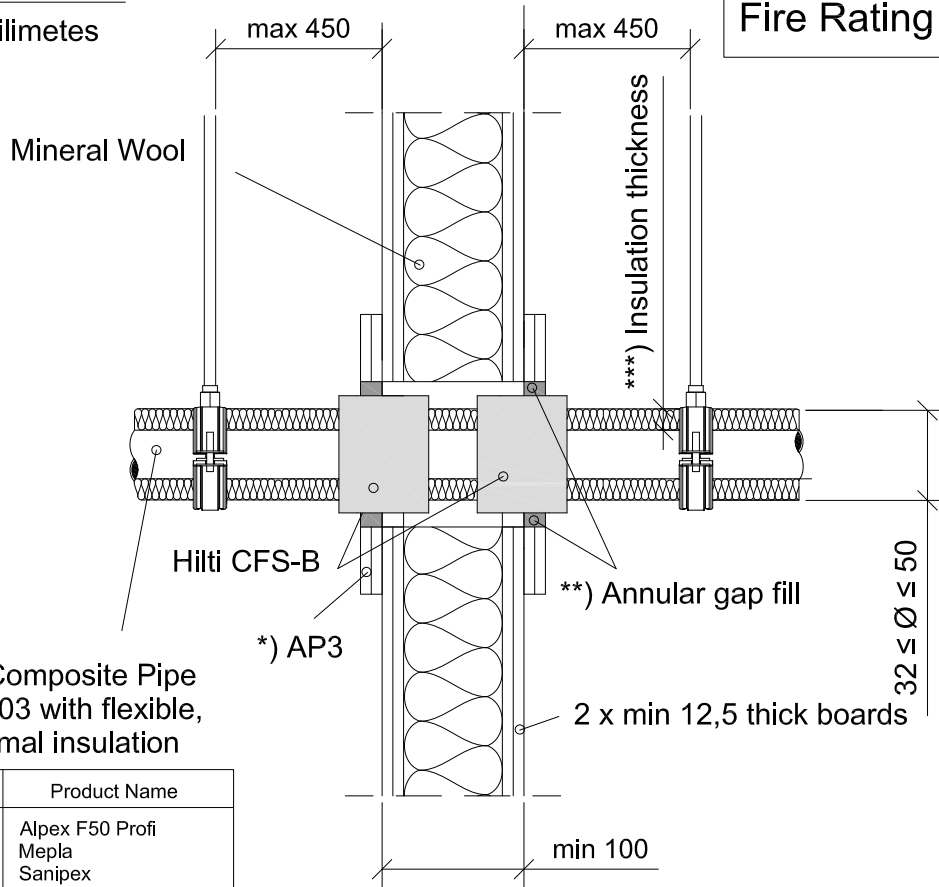
0054\_01

REV  
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No scale

All units are in millimetres

Fire Rating EI 120 C/U



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

Manufacturer	Product Name
Frankische Rohrwerke Geberit Georg Fischer Viega	Alpex F50 Profi Mepla Sanipex SANIFIX Fosta-Rohr

\*) Additional Protection

AP3
Beading/outside framing-beading for flexible wall (100mm) is applied by adding boards on both sides in two layers (2x12.5 mm Type F board) fixed with drywall screws. The resulting strips around the whole pipe are at least 50 mm in width.

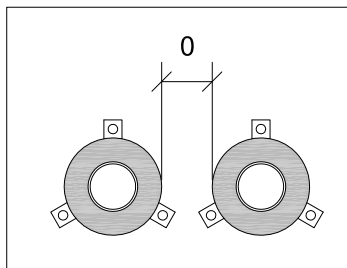
\*\*\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides 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	Insulation thickness			
	From		To	
	Small Ø	Large Ø	Small Ø	Large Ø
32-50	9.0	9.0	35.1	37.5



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 flexible wall

ID

REFR-FW-AL-0055

FIRESTOP BANDAGE

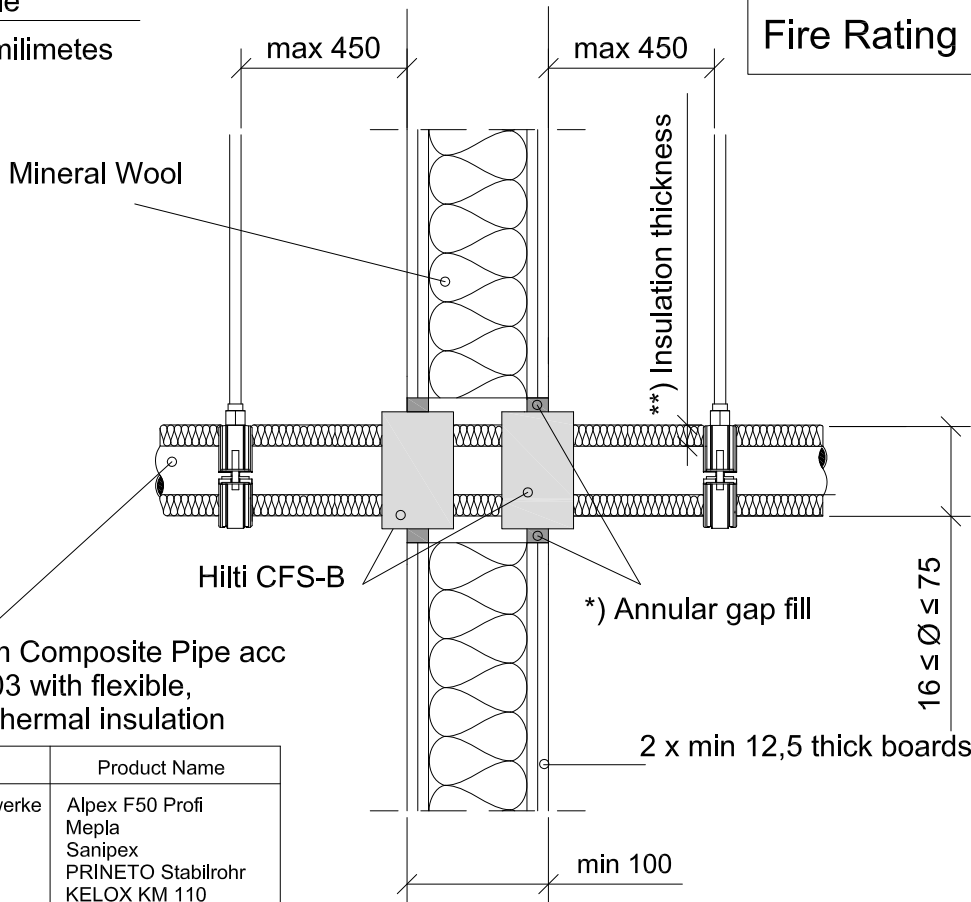
0055\_01

REV  
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No scale

All units are in millimetres

Fire Rating EI 120 U/C



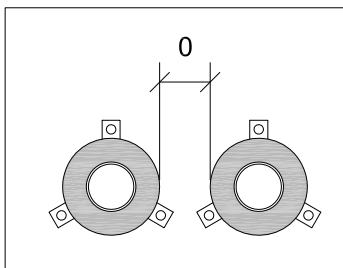
\*\*) Aluminium Composite Pipe acc EN ISO 21003 with flexible, elastomeric thermal insulation

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

- 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 or gypsum only with a depth > 25 mm on both sides of the wall



Zero distance between annular gap

\*\*) Pipe wall thickness and insulation

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

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

Product	Approved type 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)
Kalman 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 flexible wall

ID

REFR-FW-AL-0056

FIRESTOP BANDAGE

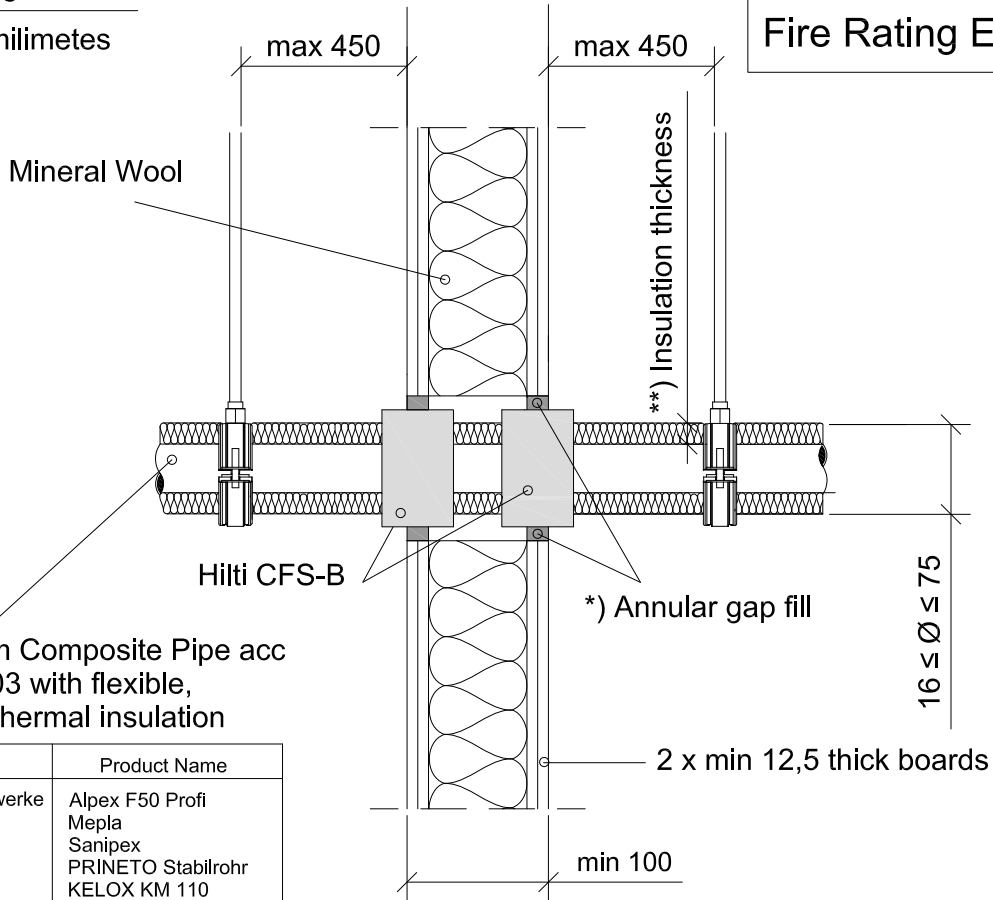
0056\_01

REV  
00

No scale

All units are in milimetres

Fire Rating EI 90 U/C



\*\*) 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

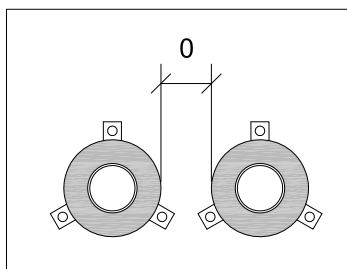
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*\*) Pipe wall thickness and insulation

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 or gypsum only with a depth > 25 mm on both sides 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	Kalflex KK plus, Kalflex 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 flexible wall

ID

REFR-FW-AL-0057

FIRESTOP BANDAGE

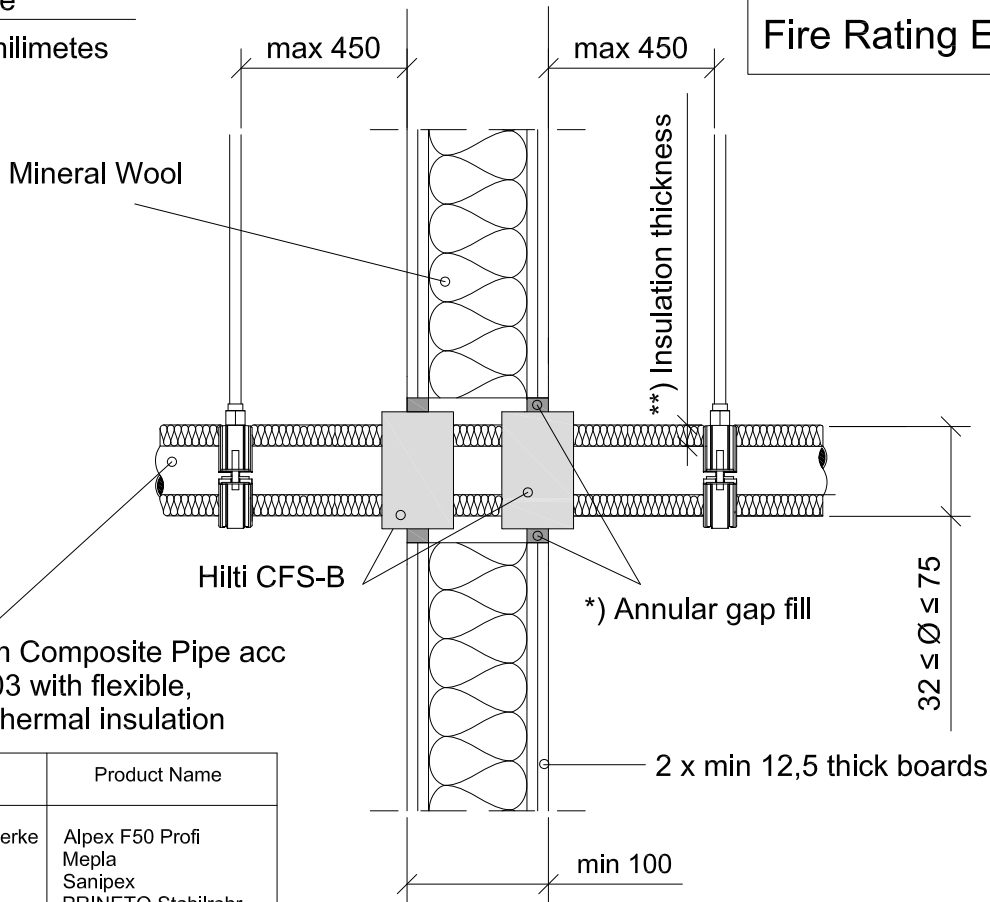
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No scale

All units are in millimetres

Fire Rating EI 60 U/C



\*\*\*) 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

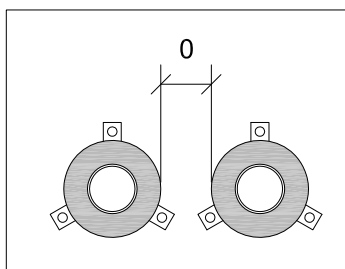
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides of the wall

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

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	50-63	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



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

Plastic pipe in a flexible wall

ID

REFR-FW-PP-0089

FIRESTOP BANDAGE

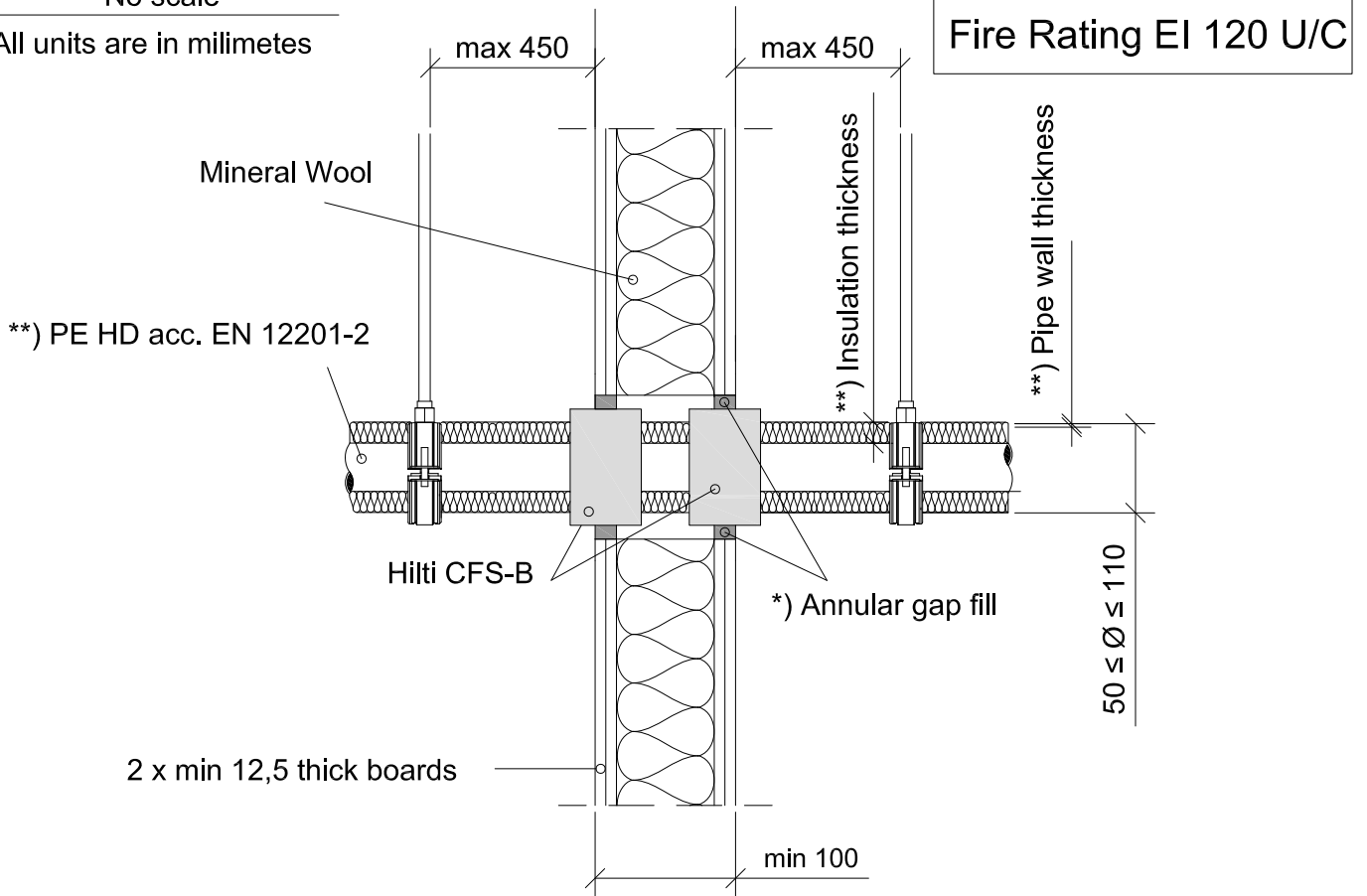
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REV  
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No scale

All units are in millimetres

Fire Rating EI 120 U/C



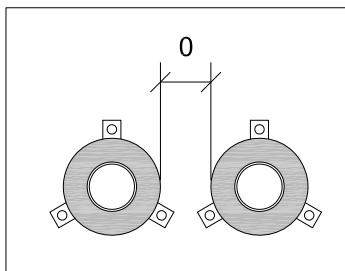
- Approval ETA-10/0212 of 06/05/2014
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

\*) Annular gap fill material

Gap with (mm)	Annular Gap Fill
0-15	Hilti Firestop Acrylic Sealant CFS-S ACR or gypsum only with a depth > 25 mm on both sides 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
50-110	4.6-10	9.0	9.5	37.5	42.5



Zero distance between annular gap

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

Product	Approved tpe of foamed elastomeric thermal insulation
Armaceff 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