

Schémas d'applications pour le mastic coupe-feu acrylique CFS-S ACR



Applications pour réfrigération

- Tube cuivre en cloison épaisseur 100 mm mini
- Tube cuivre en voile rigide épaisseur 100 mm mini
- Tube cuivre en dalle rigide épaisseur 150 mm mini
- Tube acier en cloison épaisseur 100 mm mini
- Tube acier en voile rigide épaisseur 100 mm mini
- Tube acier en dalle rigide épaisseur 150 mm mini

REFR-FW-MP-0001-4

REFR-RW-MP-0011/12/15/16

REFR-RF-MP-0018-21/24/25

REFR-FW-MP-0027/28/32/33

REFR-RW-MP-0035/36/38/39

REFR-RF-MP-0044-47/50/51

*) 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-0001

FIRESTOP ACRYLIC SEALANT

0001_01

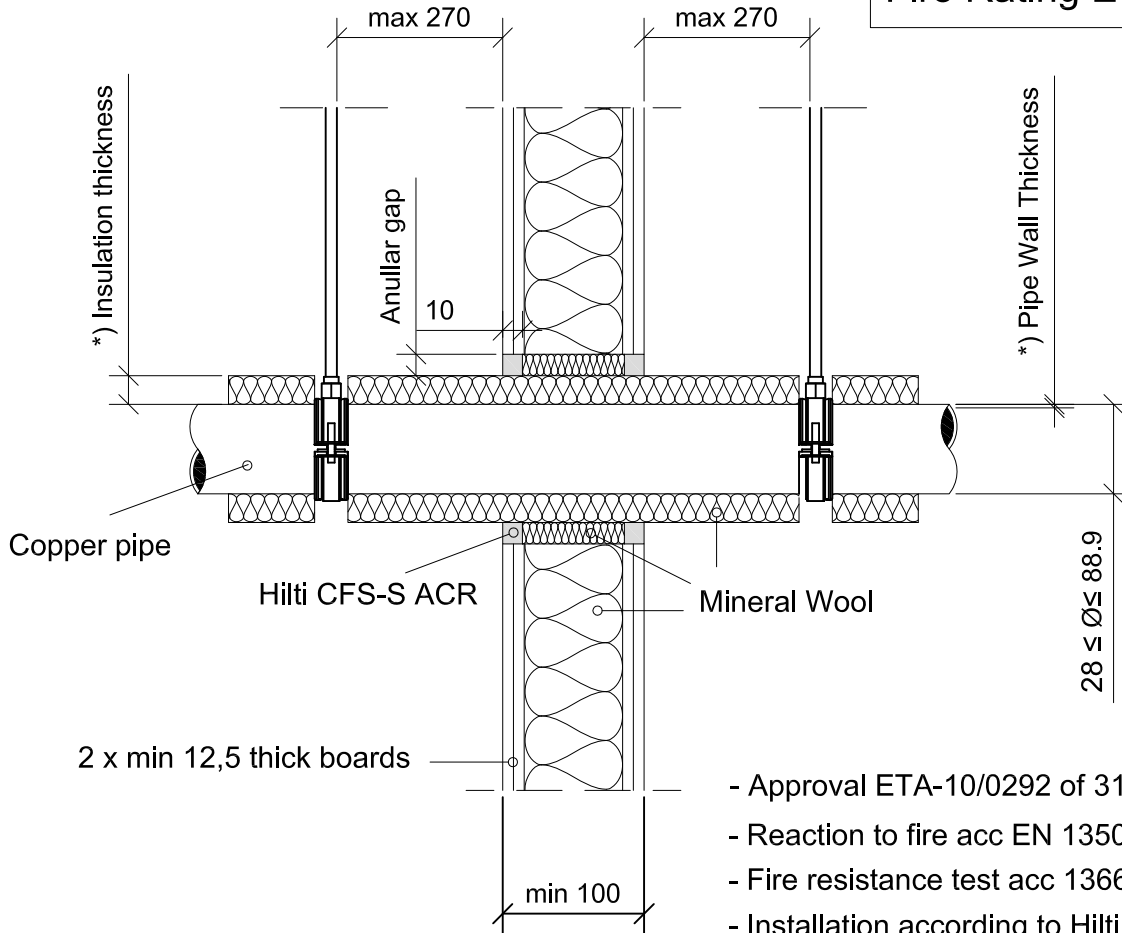
REV

00

No scale

All units are in millimetres

Fire Rating EI 120 C/U



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

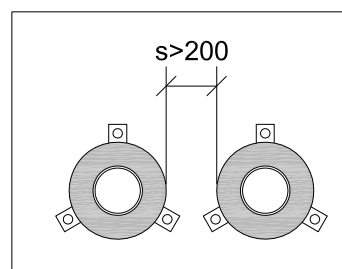
*) Pipe wall thickness and insulation

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Other criteria description
28-42	1.0/1.5-14.2	≥ 20	Interrupted or sustained insulation
42-88.9	1.5/2.0-14.2	≥ 40	Interrupted

Sound Insulation for flexible wall

$$D_{n,w} = 53 \text{ dB}$$

$$R_w = 60 \text{ dB}$$



Minimum distance between seals



CONTENTS

Metal Pipe in a flexible wall

ID

REFR-FW-MP-0002

FIRESTOP ACRYLIC SEALANT

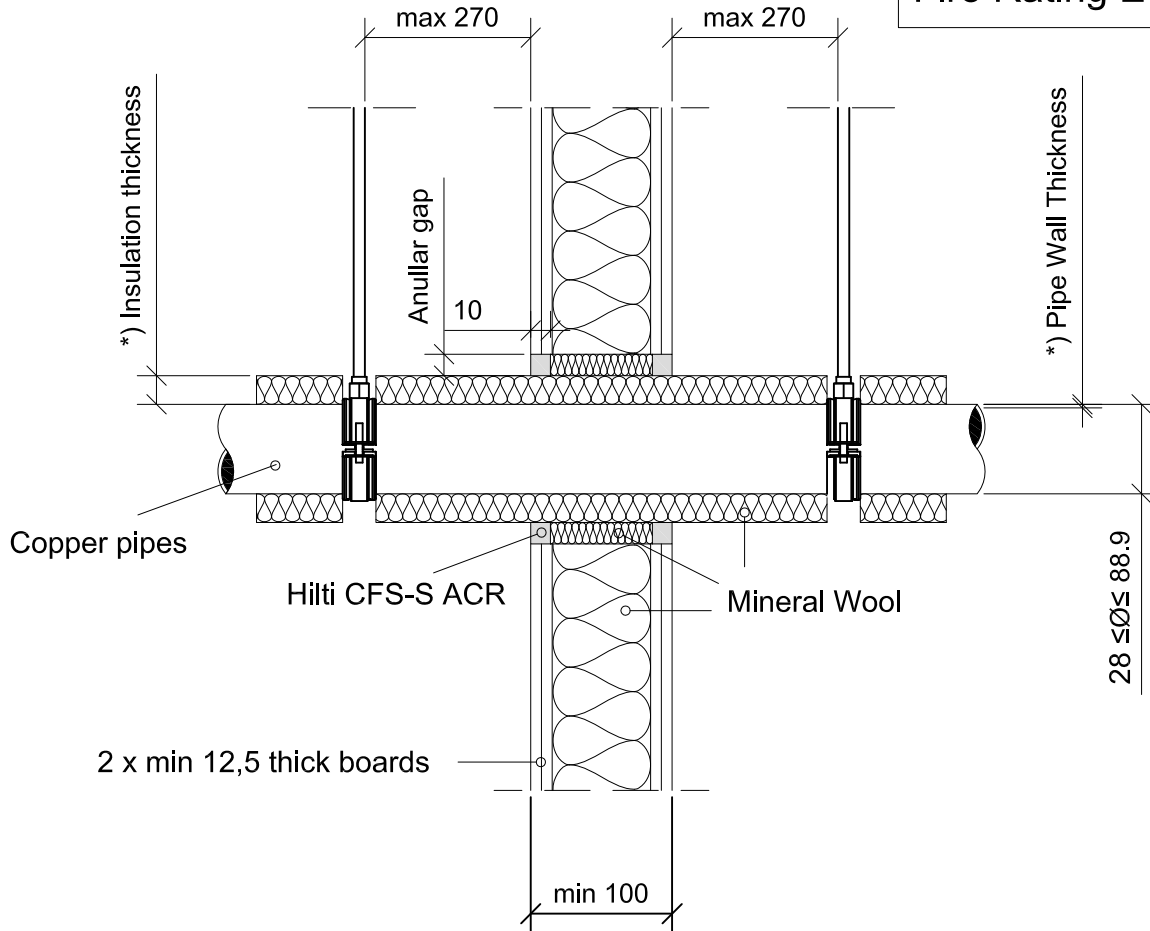
0002_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 120 C/U



*) Pipe wall thickness and insulation

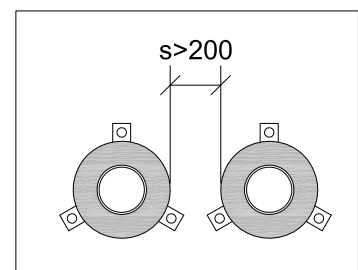
Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Length on each side
28-42	1.0/1.5-14.2	20	Sustained	≥ 450
28-42	1.0/1.5-14.2	20	Interrupted	≥ 500
42	1.5-14.2	20-40	Sustained	≥ 500
42	1.5-14.2	20-40	Interrupted	≥ 500
42-88.9	1.5/2.0-14.2	40	Interrupted	≥ 500
88.9	2.0-14.2	40	Interrupted	≥ 700

Sound Insulation for flexible wall

$$D_{n,w} = 53 \text{ dB}$$

$$R_w = 60 \text{ dB}$$

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



Minimum distance between seals



CONTENTS

Metal Pipe in a flexible wall

ID

REFR-FW-MP-0003

FIRESTOP ACRYLIC SEALANT

0003_01

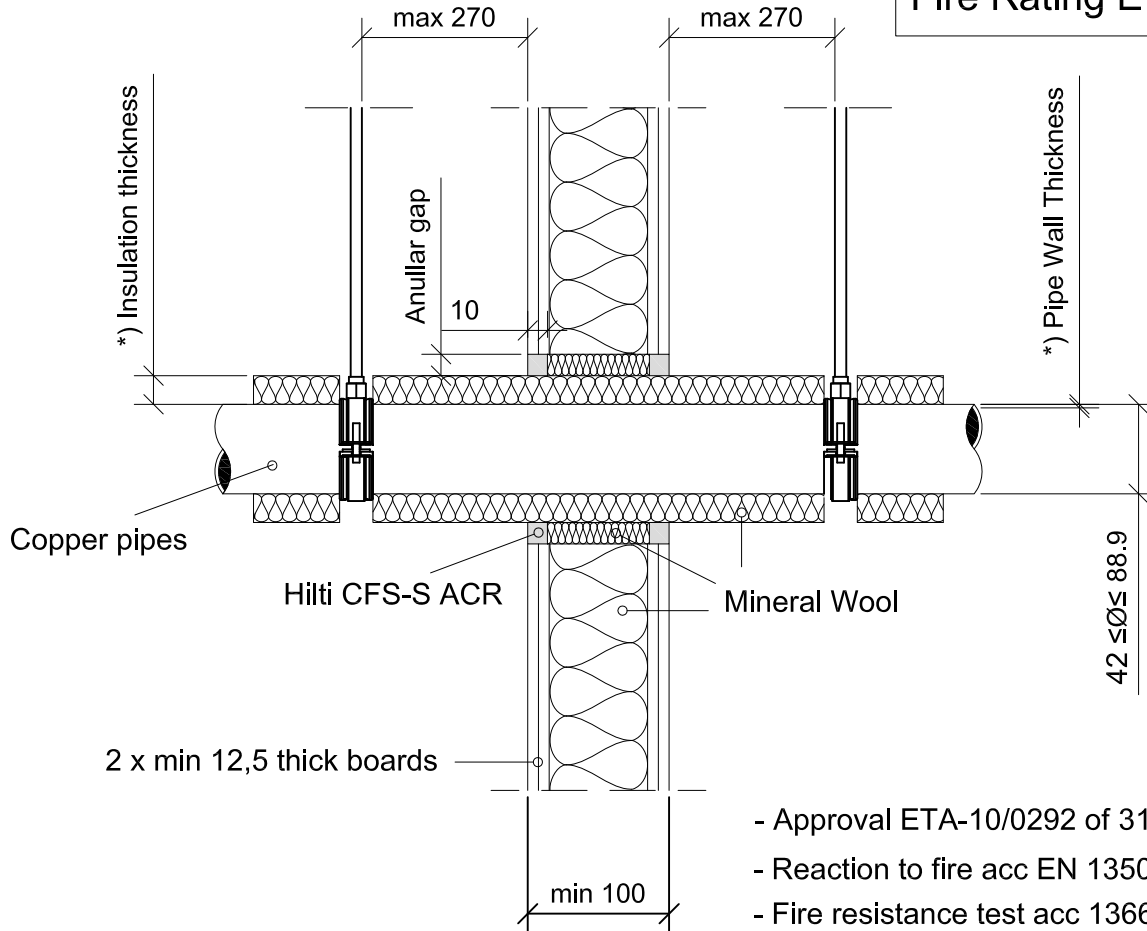
REV

00

No scale

All units are in millimetres

Fire Rating EI 90 C/U



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

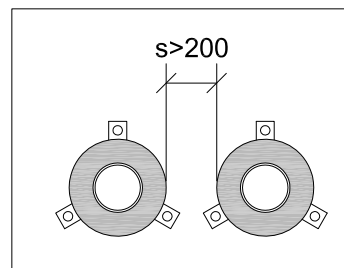
*) Pipe wall thickness and insulation

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Other criteria description
42-88.9	1.5/2.0-14.2	≥ 40	Sustained insulation

Sound Insulation for flexible wall

$$D_{n,w} = 53 \text{ dB}$$

$$R_w = 60 \text{ dB}$$



Minimum distance between seals



CONTENTS

Metal Pipe in a flexible wall

ID

REFR-FW-MP-0004

FIRESTOP ACRYLIC SEALANT

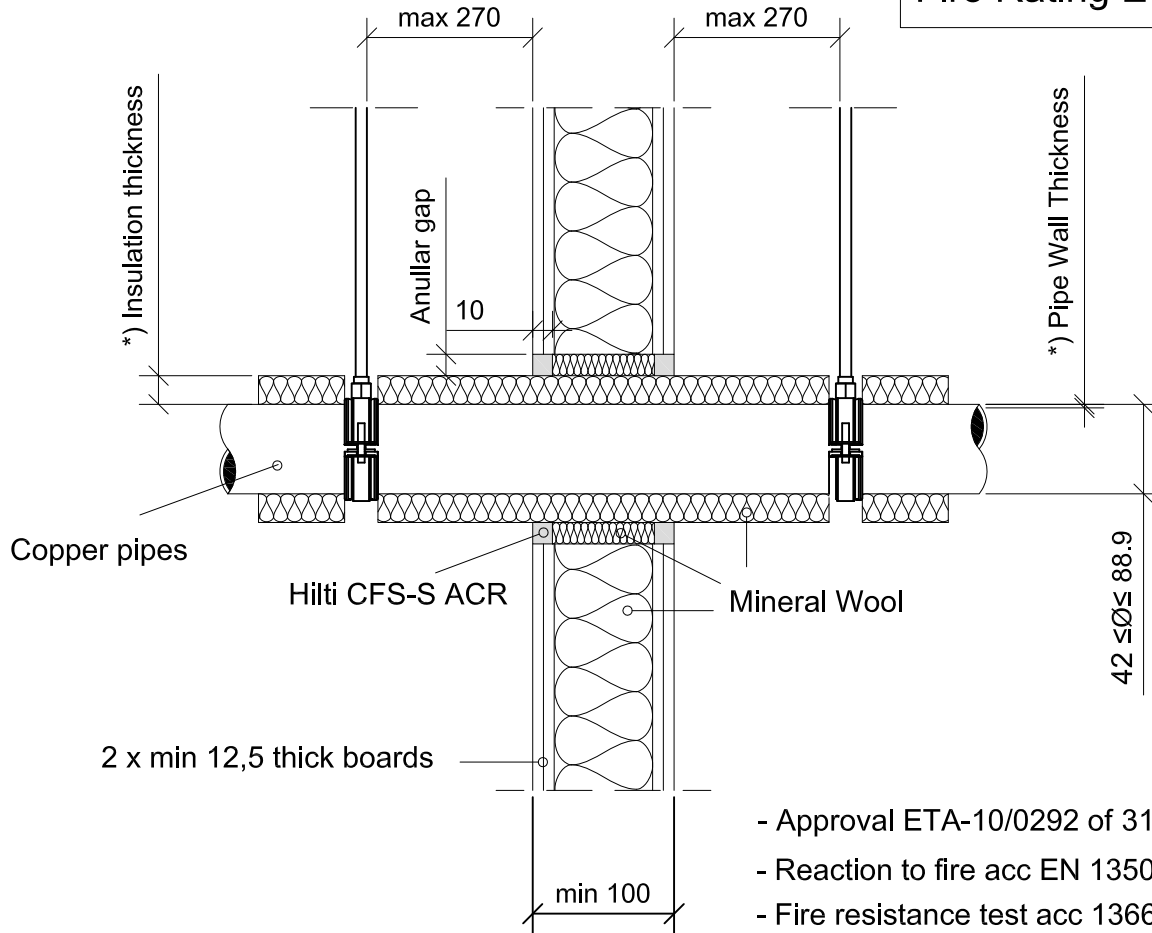
0004_01

REV
00

No scale

All units are in millimetres

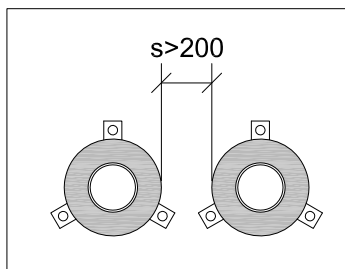
Fire Rating EI 90 C/U



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

*) Pipe wall thickness and insulation

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Length on each side
42-88.9	1.5/2.0-14.2	40	Sustained	≥ 500



Minimum distance between seals

Sound Insulation for flexible wall

$$D_{n,w} = 53 \text{ dB}$$

$$R_w = 60 \text{ dB}$$



CONTENTS

Metal Pipe in a rigid wall

ID

REFR-RW-MP-0011

FIRESTOP ACRYLIC SEALANT

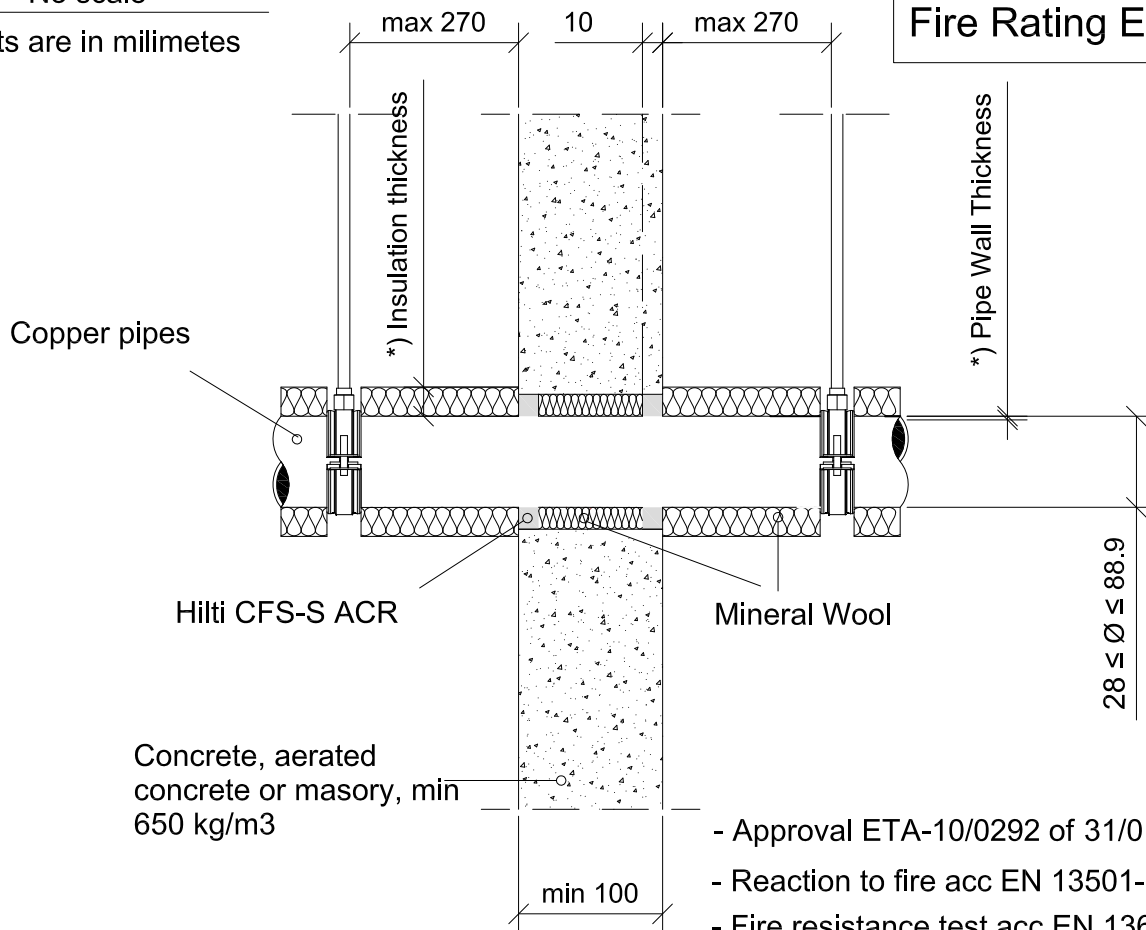
0011_01

REV 00

No scale

All units are in millimetres

Fire Rating EI 120 C/U



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

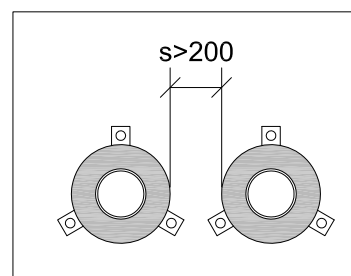
*) Pipe wall thickness and insulation

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Other criteria description
28-42	1.0/1.5-14.2	≥ 20	Interrupted or sustained insulation
42-88.9	1.5/2.0-14.2	≥ 40	Interrupted

Sound Insulation for rigid wall

$$D_{n,w} = 51 \text{ dB}$$

$$R_w = 58 \text{ dB}$$



Minimum distance between seals



CONTENTS

Metal Pipe in a rigid wall

ID

REFR-RW-MP-0012

FIRESTOP ACRYLIC SEALANT

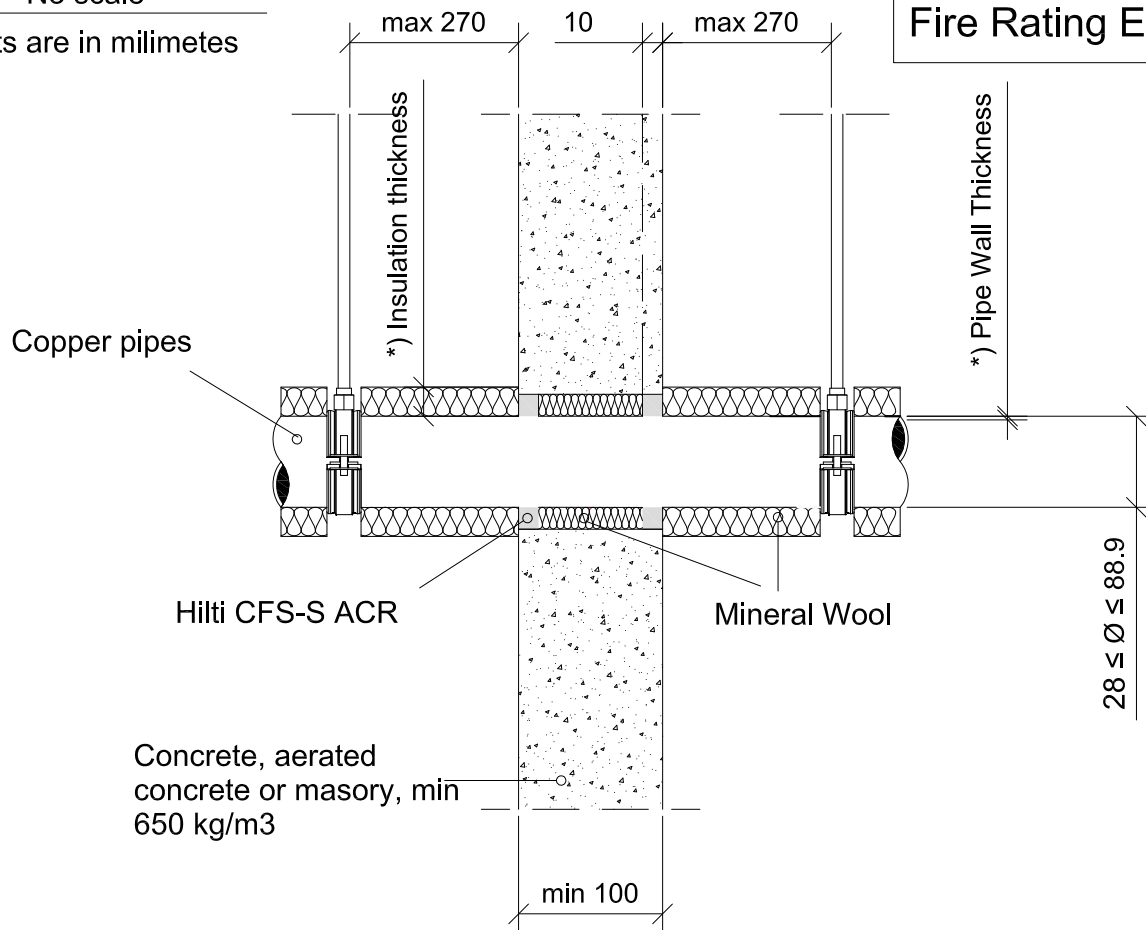
0012_01

REV 00

No scale

All units are in millimetres

Fire Rating EI 120 C/U



*) Pipe wall thickness and insulation

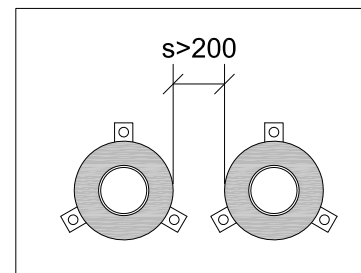
Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Length on each side
28-42	1.0/1.5-14.2	20	Sustained	≥ 450
28-42	1.0/1.5-14.2	20	Interrupted	≥ 500
42	1.5-14.2	20-40	Sustained	≥ 500
42	1.5-14.2	20-40	Interrupted	≥ 500
42-88.9	1.5/2.0-14.2	40	Interrupted	≥ 500
88.9	2.0-14.2	40	Interrupted	≥ 700

Sound Insulation for rigid wall

$$D_{n,w} = 51 \text{ dB}$$

$$R_w = 58 \text{ dB}$$

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions



Minimum distance between seals



CONTENTS

Metal Pipe in a rigid wall

ID

REFR-RW-MP-0015

FIRESTOP ACRYLIC SEALANT

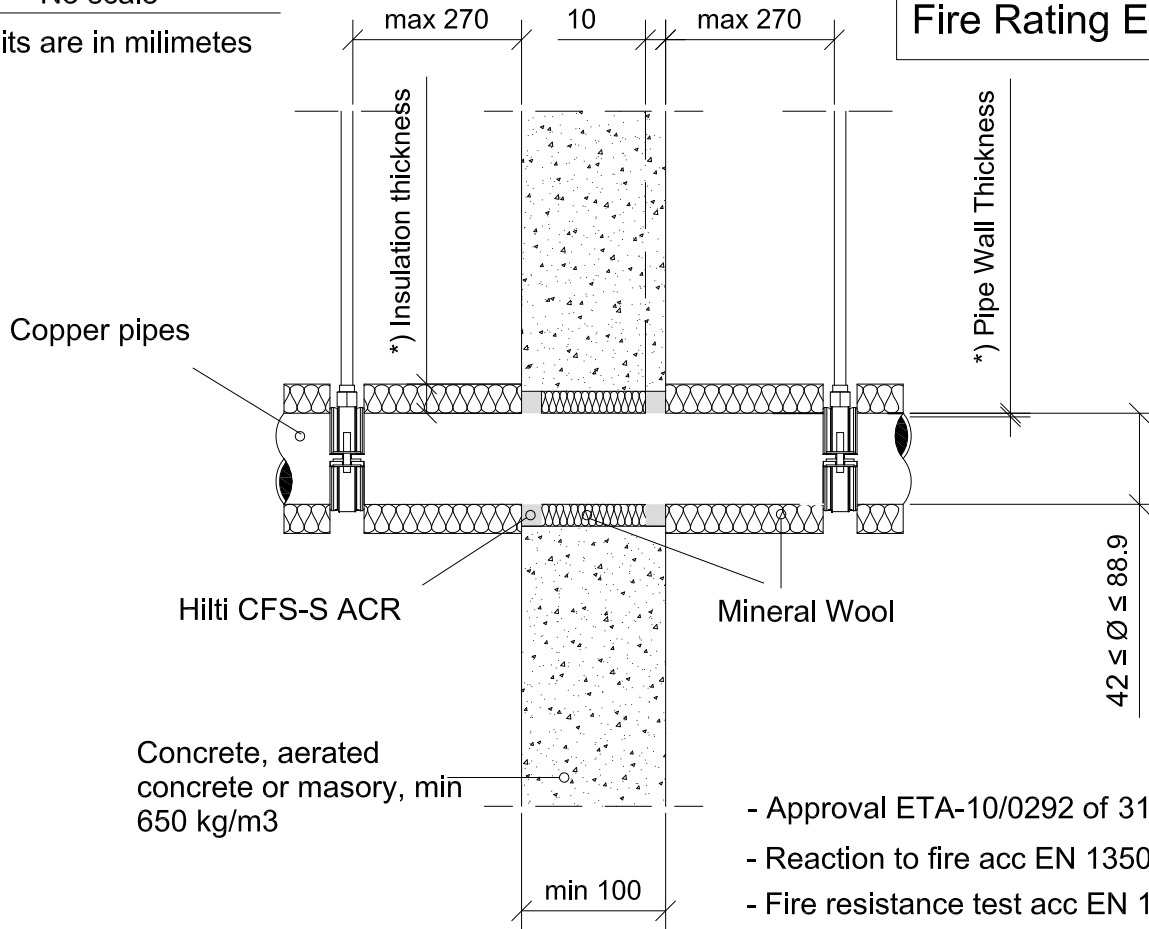
0015_01

REV 00

No scale

All units are in millimetres

Fire Rating EI 90 C/U



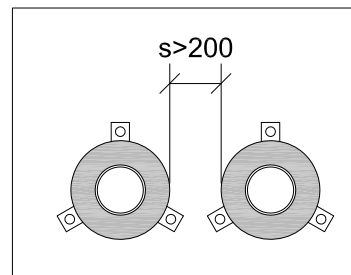
- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc EN 1366-3
- Installation according to Hilti instructions

*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Other criteria description
42-88.9	1.5/2.0-14.2	≥ 40	Sustained insulation

Sound Insulation for rigid wall

$D_{n,w}$	= 51 dB
R_w	= 58 dB



Minimum distance between seals



CONTENTS

Metal Pipe in a rigid wall

ID

REFR-RW-MP-0016

FIRESTOP ACRYLIC SEALANT

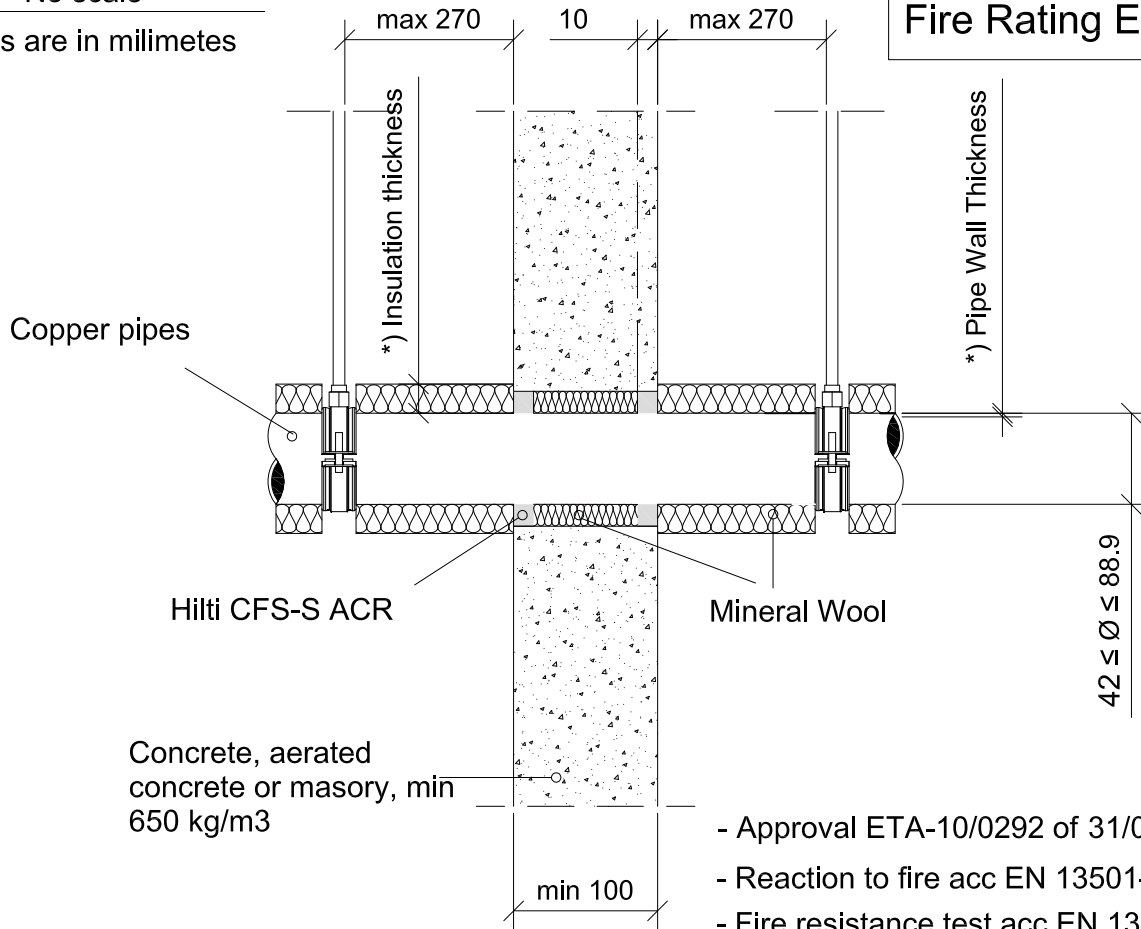
0016_01

REV 00

No scale

All units are in millimetres

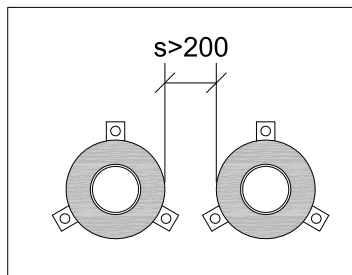
Fire Rating EI 90 C/U



- Approval ETA-10/0292 of 31/01/2013
- 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	Insulation	Length on each side
42-88.9	1.5/2.0-14.2	40	Sustained	≥ 500



Minimum distance between seals

Sound Insulation for rigid wall

$D_{n,w} = 51 \text{ dB}$
 $R_w = 58 \text{ dB}$



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0018

FIRESTOP ACRYLIC SEALANT

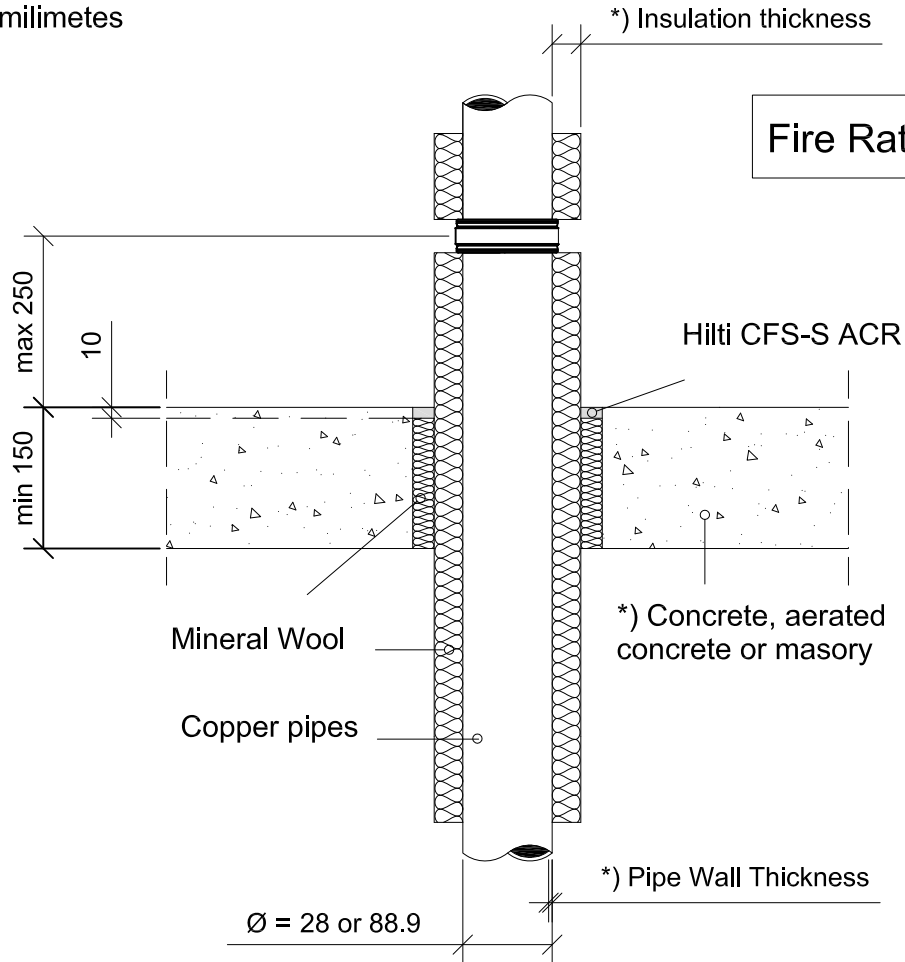
0018_01

REV

00

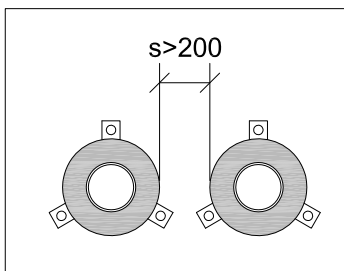
No scale

All units are in millimetres



*) Pipe wall thickness and insulation

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter
≥2400 kg/m ³	28	1.0-14.2	≥20	Sustained	≤ 260
	88.9	2.0-14.2	≥40	Sustained	≤ 260



Minimum distance between seals

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0019

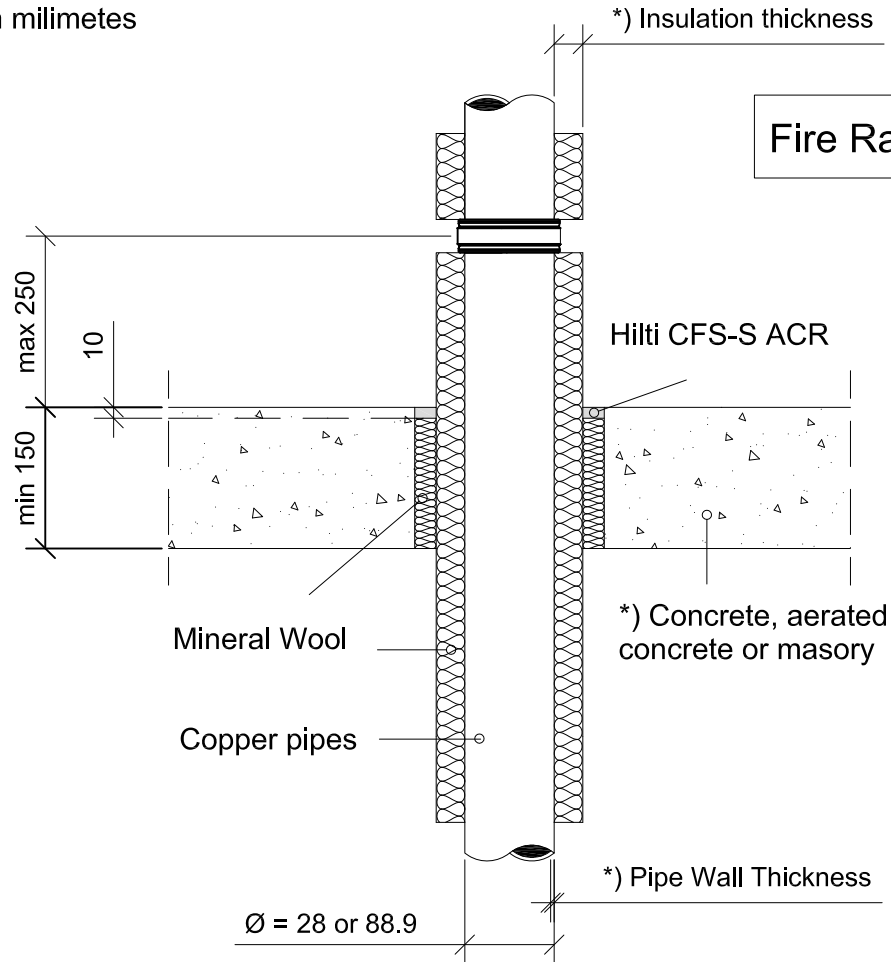
FIRESTOP ACRYLIC SEALANT

0019_01

REV
00

No scale

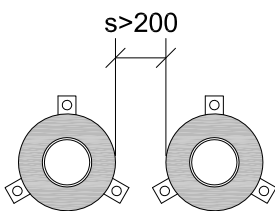
All units are in millimetres



*) Pipe wall thickness and insulation

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter	Length on each side
≥2400 kg/m ³	28	1.0-14.2	20	Sustained	≤ 260	≥425
	88.9	2.0-14.2	40	Sustained	≤ 260	≥700
	88.9	2.0-14.2	40	Interrupted	≤ 260	≥500

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Annular Space	Length on each side
≥550 kg/m ³	88.9	2.0-14.2	40	Sustained	13-48	≥700



Minimum distance between seals

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0020

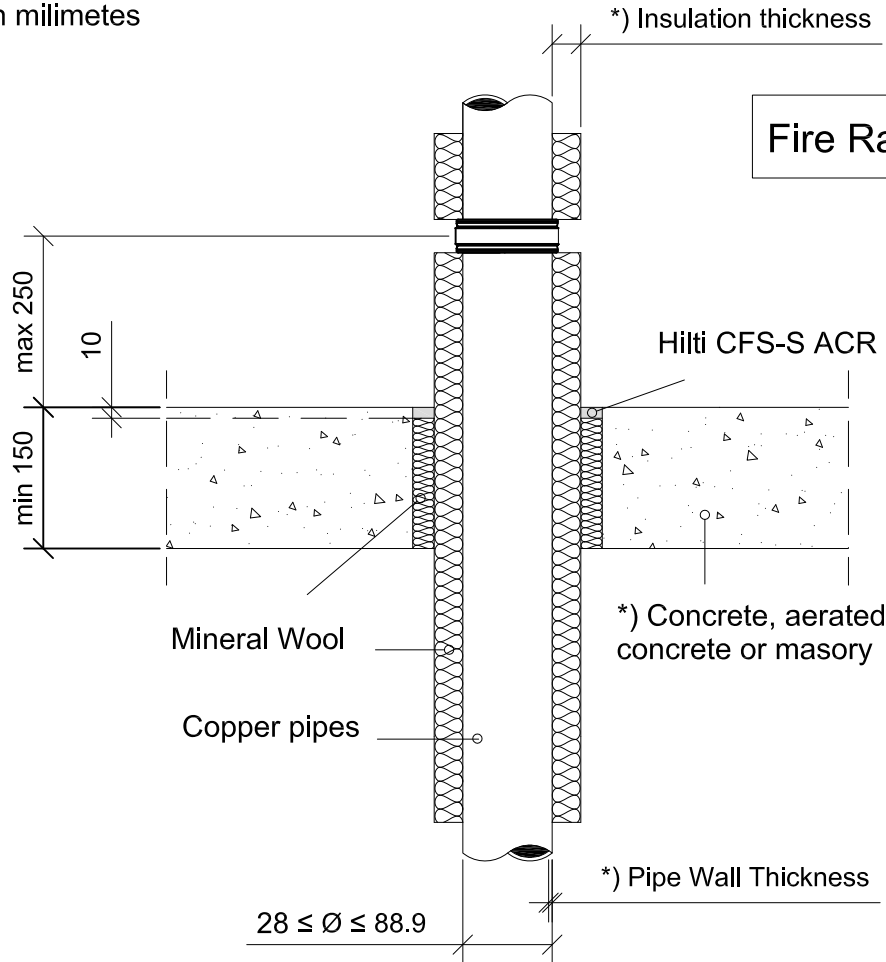
FIRESTOP ACRYLIC SEALANT

0020_01

REV
00

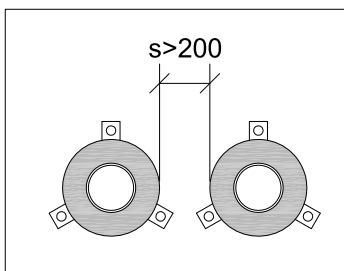
No scale

All units are in millimetres



*) Pipe wall and insulation thickness

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter
≥550 kg/m ³	28-42	1.0/1.5-14.2	20	Interrupted	≤ 300
	42	1.5-14.2	≥20	Sustained	≤ 300
	42	1.5-14.2	≥40	Interrupted	≤ 300
≥2400 kg/m ³	28-42	1.0/1.5-14.2	≥20	Sustained	≤ 300
	28-42	1.0/1.5-14.2	≥20	Interrupted	≤ 300
	42-88.9	1.5/2.0-14.2	≥40	Interrupted	≤ 300



Minimum distance between seals

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0021

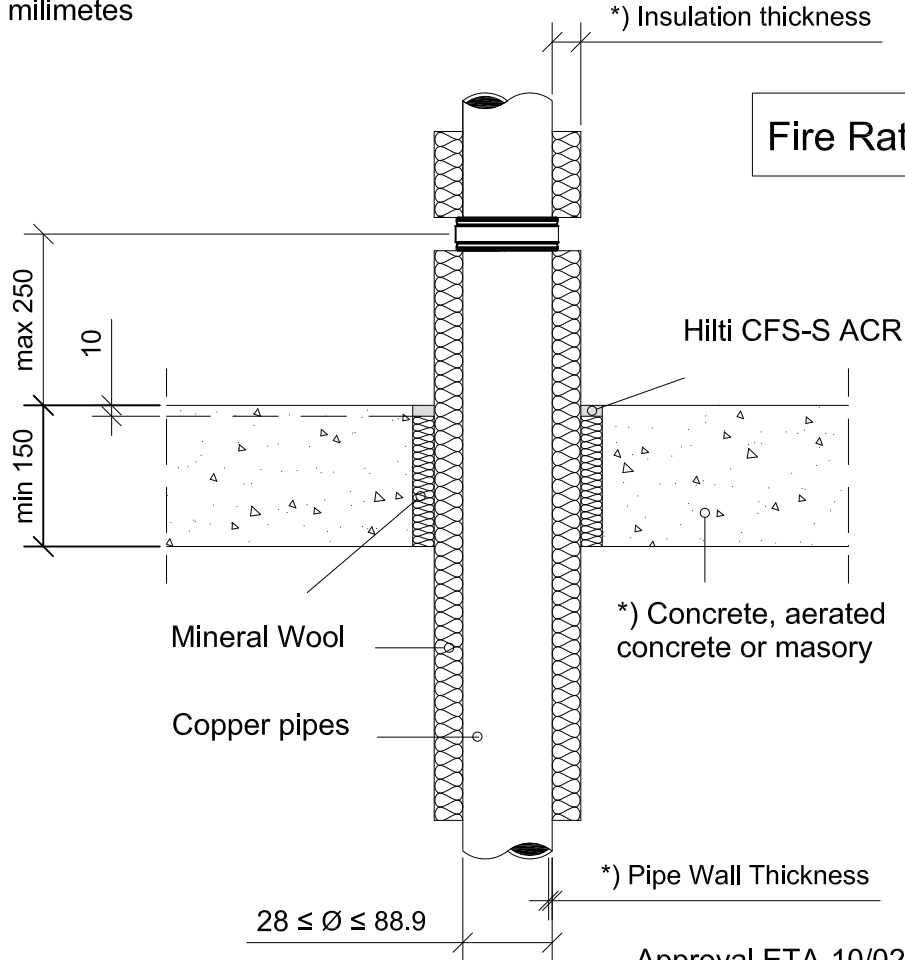
FIRESTOP ACRYLIC SEALANT

0021_01

REV
00

No scale

All units are in millimetres

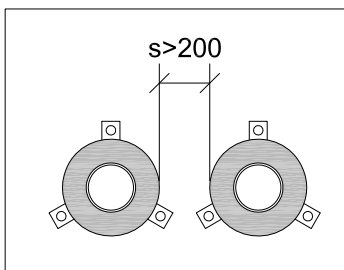


Fire Rating EI 120 C/U

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

*) Pipe wall and insulation thickness

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter	Length on each side
≥550 kg/m ³	28-42	1.0/1.5-14.2	20-40	Interrupted	≤ 300	≥600
	28-42	1.0/1.5-14.2	40	Interrupted	≤ 300	≥500
	42	1.5-14.2	20	Sustained	≤ 300	≥450
	42	1.5-14.2	20-40	Sustained	≤ 300	≥700
	42	1.5-14.2	20-40	Interrupted	≤ 300	≥500
	42-88.9	1.5/2.0-14.2	40	Sustained	≤ 300	≥700
≥2400 kg/m ³	28-42	1.0/1.5-14.2	20	Sustained	≤ 300	≥450
	28-42	1.0/1.5-14.2	20-40	Interrupted	≤ 300	≥500
	28-42	1.0/1.5-14.2	20-40	Sustained	≤ 300	≥700
	42	1.5-14.2	20-40	Sustained	≤ 300	≥700
	42-88.9	1.5/2.0-14.2	40	Sustained	≤ 300	≥700
	42-88.9	1.5/2.0-14.2	40	Interrupted	≤ 300	≥500



Minimum distance between seals



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0024

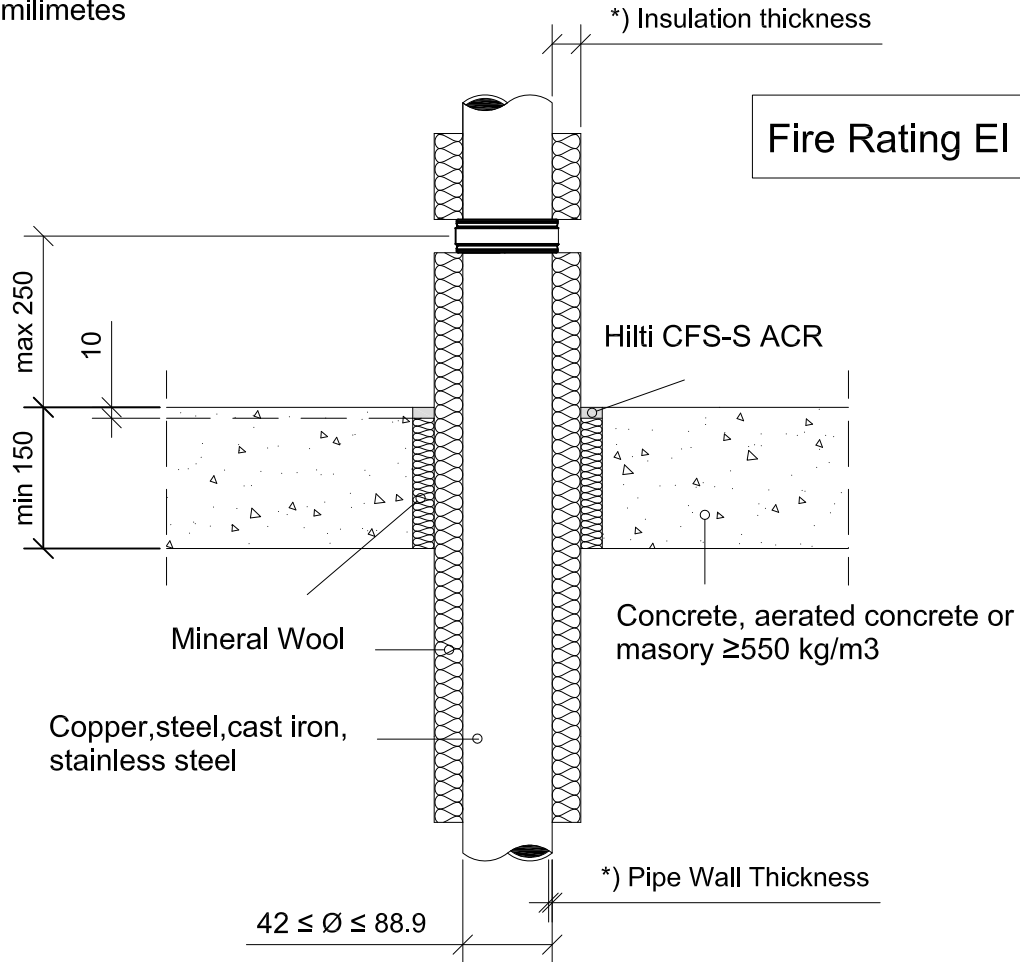
FIRESTOP ACRYLIC SEALANT

0024_01

REV
00

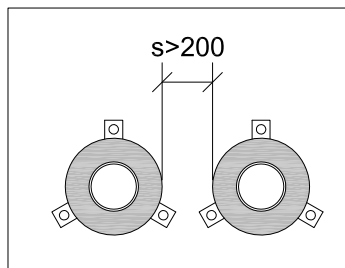
No scale

All units are in milimetres



*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter
42-88.9	1.5/2.0-14.2	≥40	Sustained	≤ 300



Minimum distance between seals

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0025

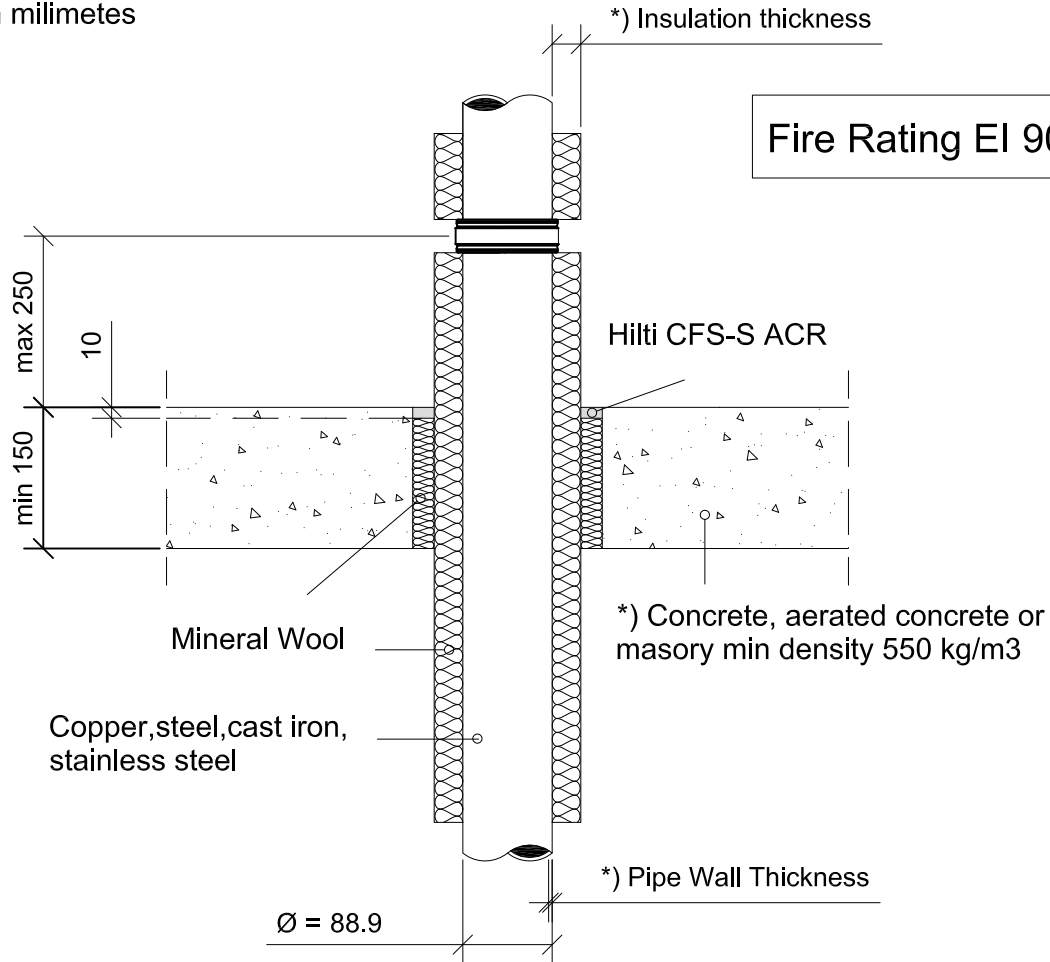
FIRESTOP ACRYLIC SEALANT

0025_01

REV
00

No scale

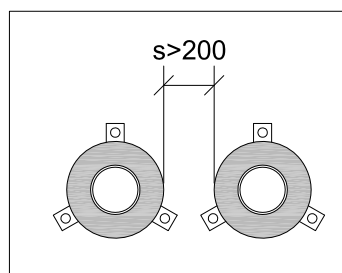
All units are in millimetres



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter	Length on each side
88.9	2.0-14.2	40	Sustained	≤ 300	≥ 500



Minimum distance between seals



CONTENTS

Metal Pipe in a flexible wall

ID

REFR-FW-MP-0027

FIRESTOP ACRYLIC SEALANT

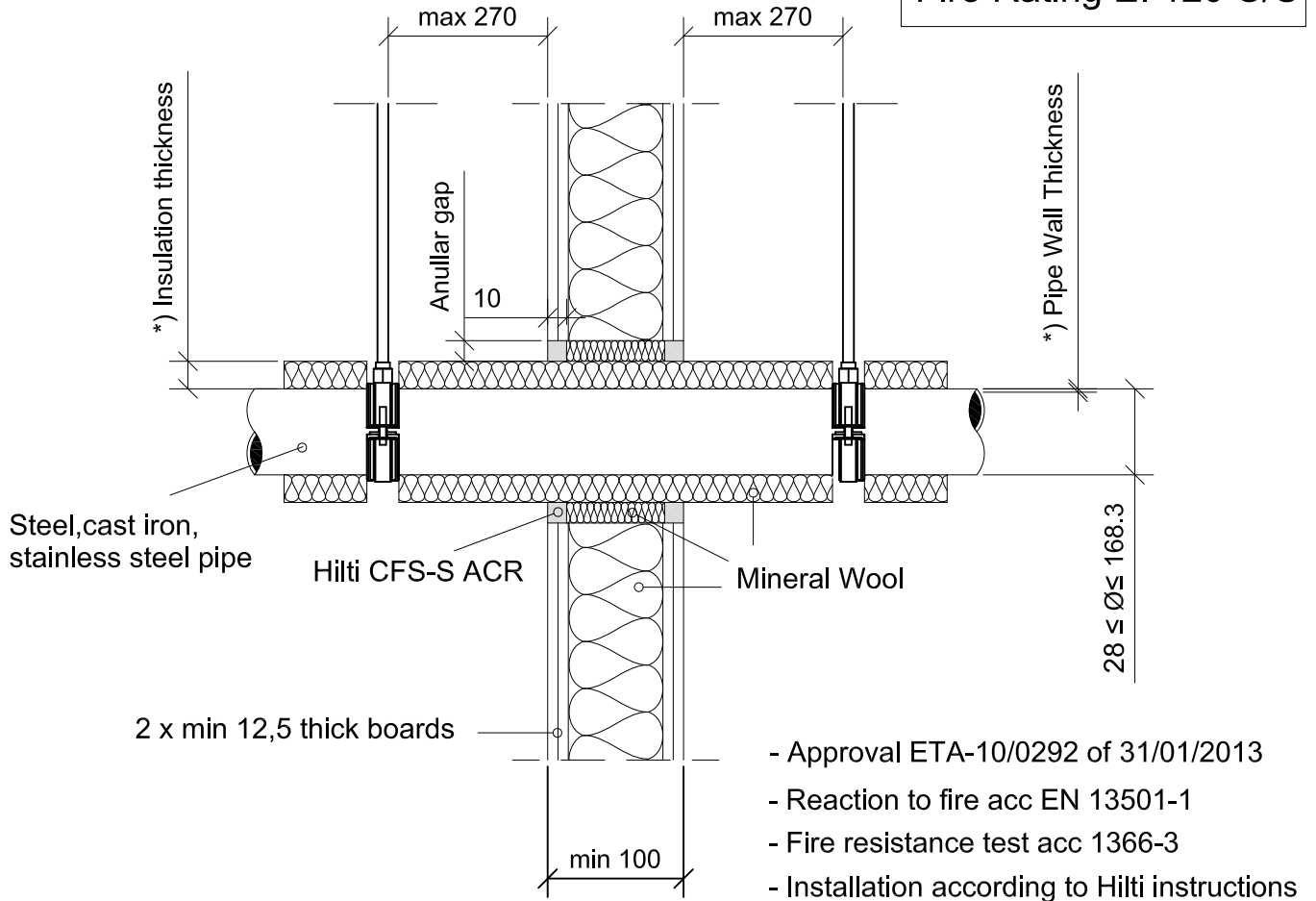
0027_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 120 C/U



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

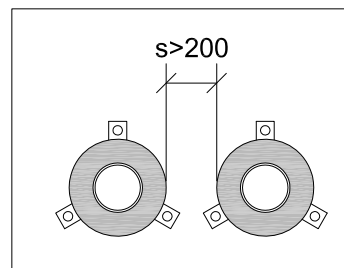
*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Other criteria description
28-42	1.0/1.5-14.2	≥ 20	Interrupted or sustained insulation
42-88.9	1.5/2.0-14.2	≥ 40	Interrupted
26.9-48.3	1.4/1.6-14.2	≥ 20	Interrupted or sustained insulation
26.9-168.3	1.4/2.6-14.2	≥ 40	Interrupted or sustained insulation

Sound Insulation for flexible wall

$$D_{n,w} = 53 \text{ dB}$$

$$R_w = 60 \text{ dB}$$



Minimum distance between seals



CONTENTS

Metal Pipe in a flexible wall

ID

REFR-FW-MP-0028

FIRESTOP ACRYLIC SEALANT

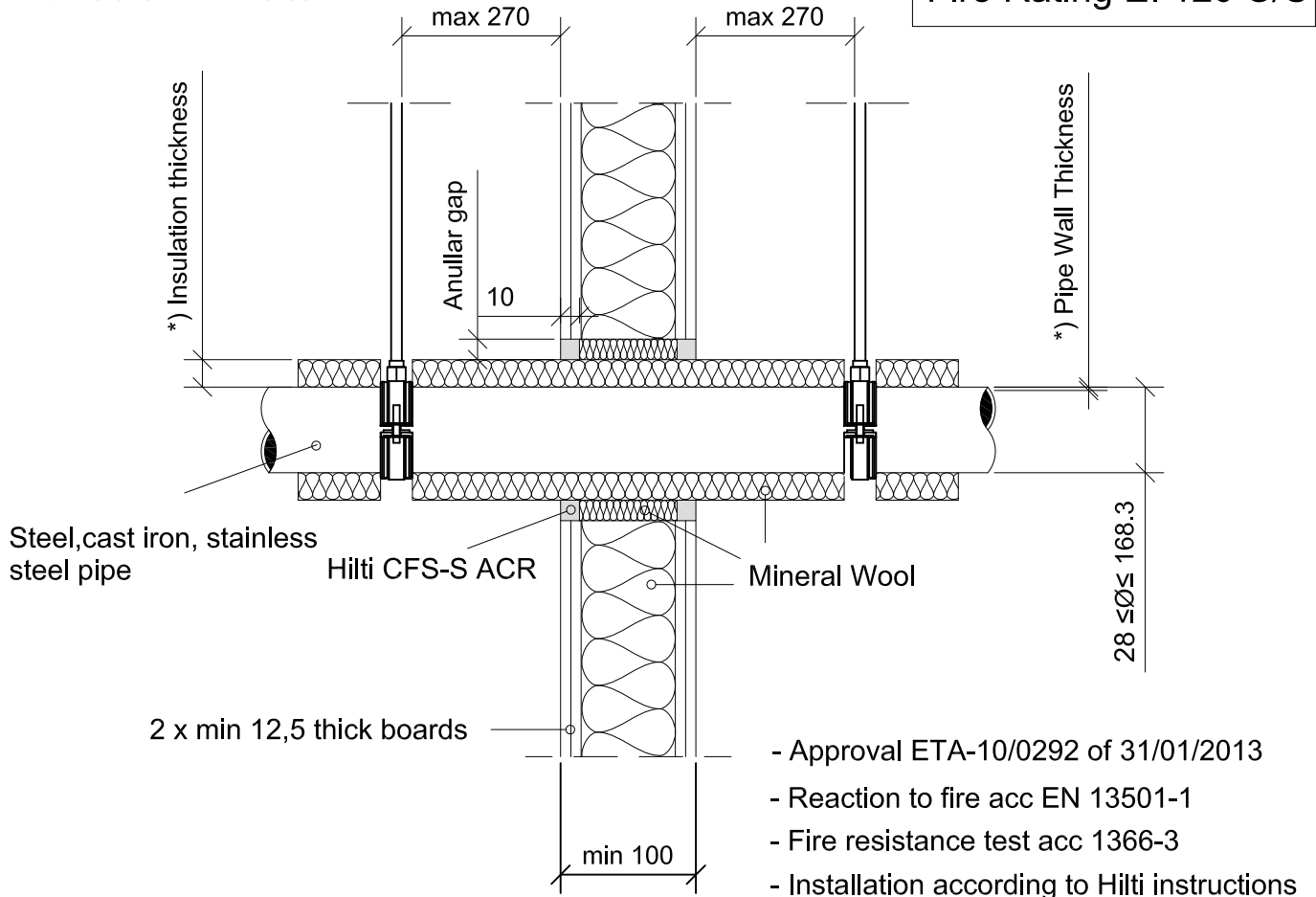
0028_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 120 C/U



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

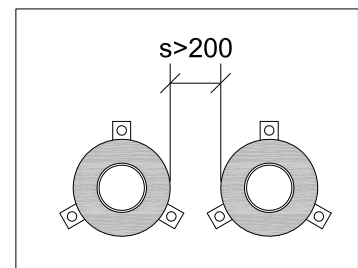
*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Length on each side
28-42	1.0/1.5-14.2	20	Sustained	≥ 450
28-42	1.0/1.5-14.2	20	Interrupted	≥ 500
42	1.5-14.2	20-40	Sustained	≥ 500
42	1.5-14.2	20-40	Interrupted	≥ 500
42-88.9	1.5/2.0-14.2	40	Interrupted	≥ 500
88.9	2.0-14.2	40	Interrupted	≥ 700
26.9-48.3	1.4/1.6-14.2	20	Sustained	≥ 450
26.9-48.3	1.4/1.6-14.2	20	Interrupted	≥ 500
48.3	1.6-14.2	20-40	Sustained	≥ 500
48.3-168.3	1.6/2.6-14.2	40	Sustained	≥ 700
168.3	4.5-14.2	40	Interrupted	≥ 500
168.3	2.6-14.2	40	Interrupted	≥ 700

Sound Insulation for flexible wall

$$D_{n,w} = 53 \text{ dB}$$

$$R_w = 60 \text{ dB}$$



Minimum distance between seals



CONTENTS

Metal Pipe in a flexible wall

ID

REFR-FW-MP-0032

FIRESTOP ACRYLIC SEALANT

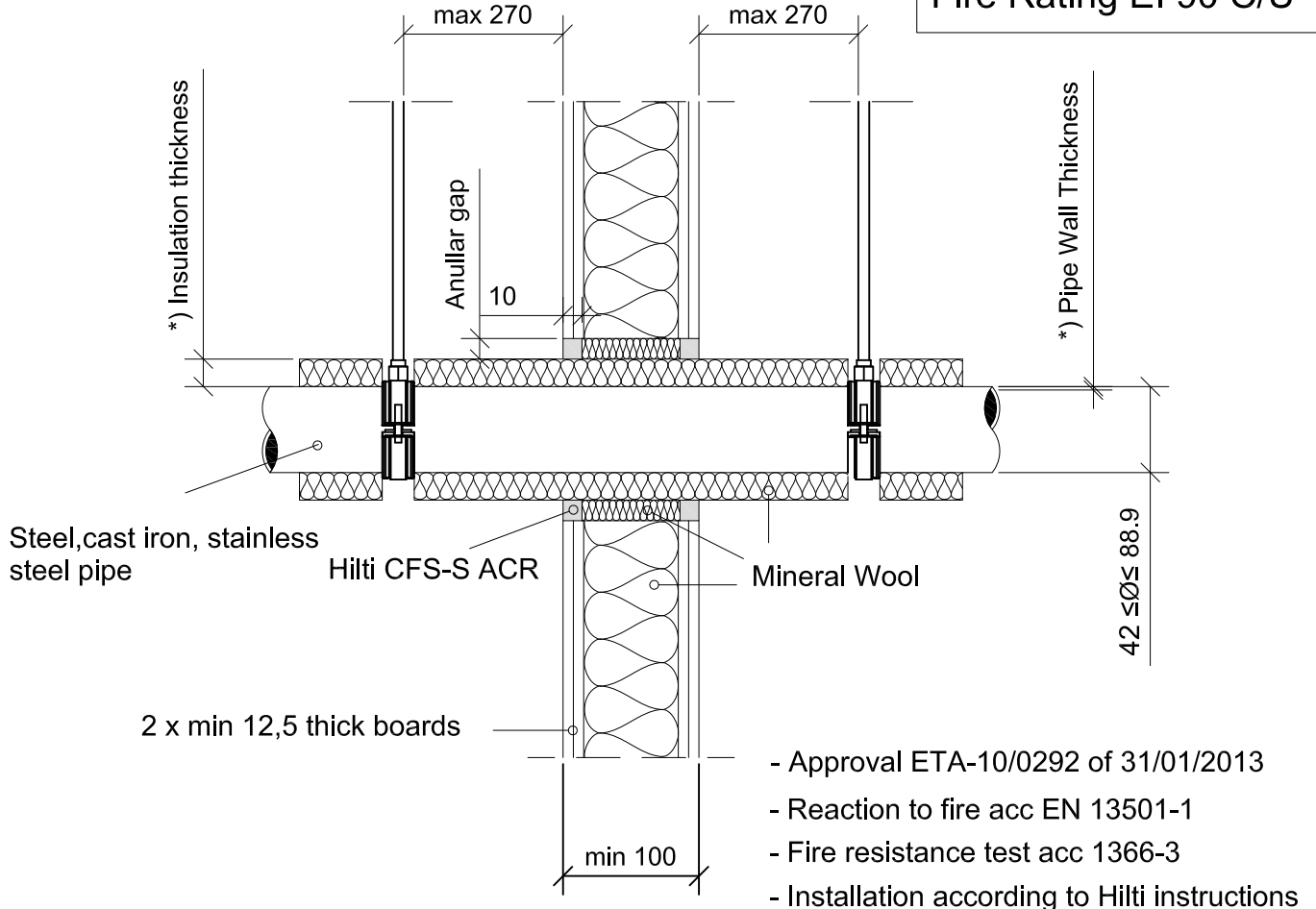
0032_01

REV
00

No scale

All units are in millimetres

Fire Rating EI 90 C/U



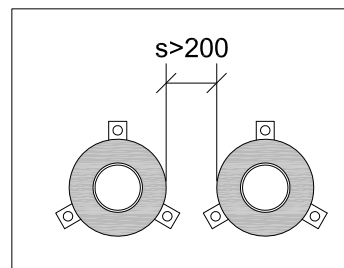
*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Other criteria description
42-88.9	1.5/2.0-14.2	≥ 40	Sustained insulation

Sound Insulation for flexible wall

$$D_{n,w} = 53 \text{ dB}$$

$$R_w = 60 \text{ dB}$$



Minimum distance between seals



CONTENTS

Metal Pipe in a flexible wall

ID

REFR-FW-MP-0033

FIRESTOP ACRYLIC SEALANT

0033_01

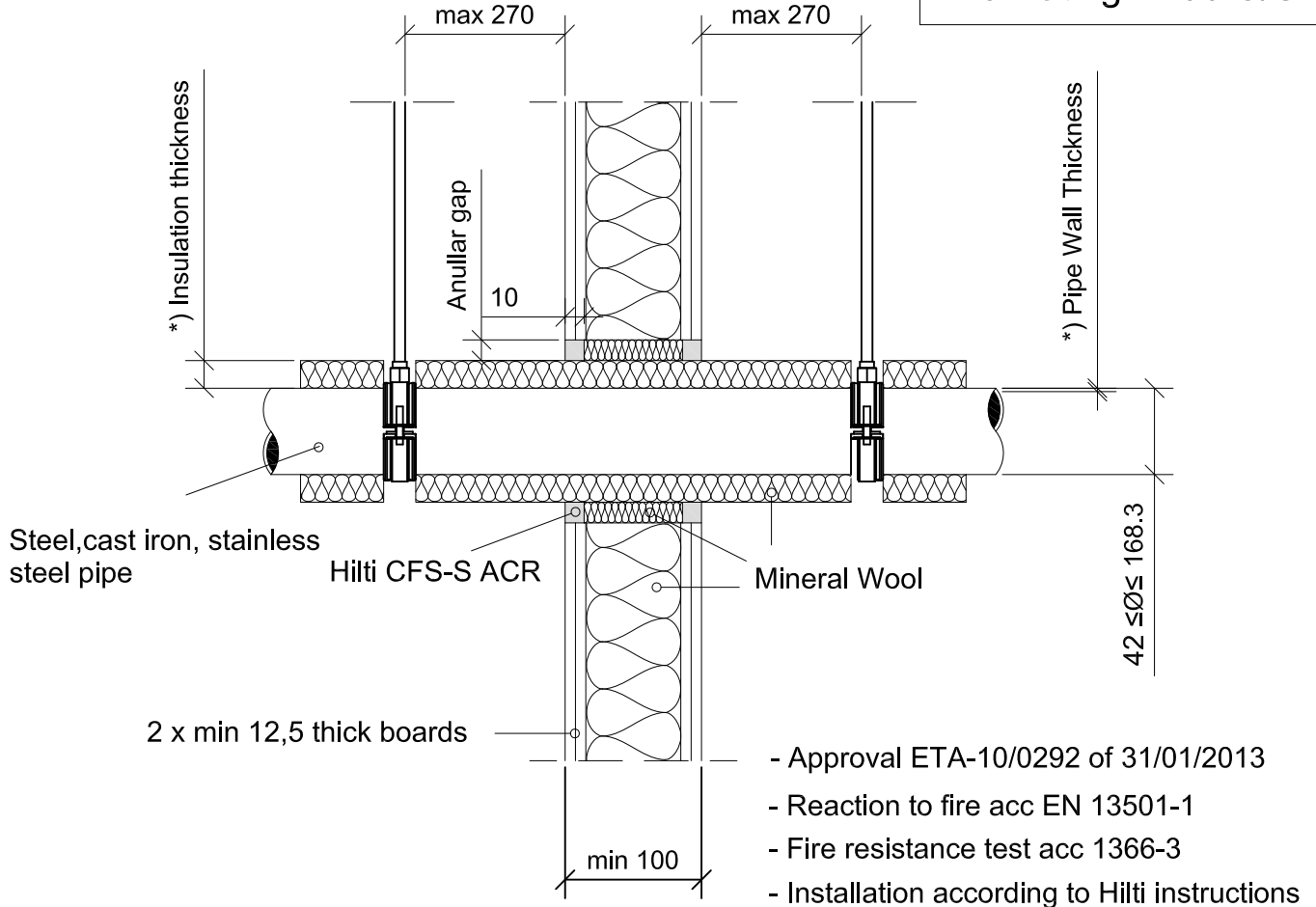
REV

00

No scale

All units are in millimetres

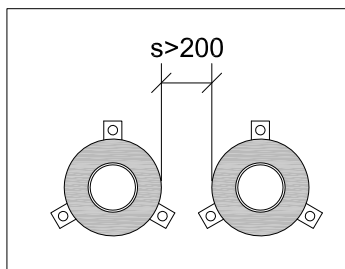
Fire Rating EI 90 C/U



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Length on each side
42-88.9	1.5/2.0-14.2	40	Sustained	≥ 500
48.3-168.3	1.6/2.6-14.2	40	Sustained	≥ 450
48.3-168.3	1.6/2.6-14.2	40	Interrupted	≥ 700
168.3	2.6-4.5	40	Interrupted	≥ 500



Minimum distance between seals

Sound Insulation for flexible wall

$D_{n,w} = 53 \text{ dB}$
 $R_w = 60 \text{ dB}$



CONTENTS

Metal Pipe in a rigid wall

ID

REFR-RW-MP-0035

FIRESTOP ACRYLIC SEALANT

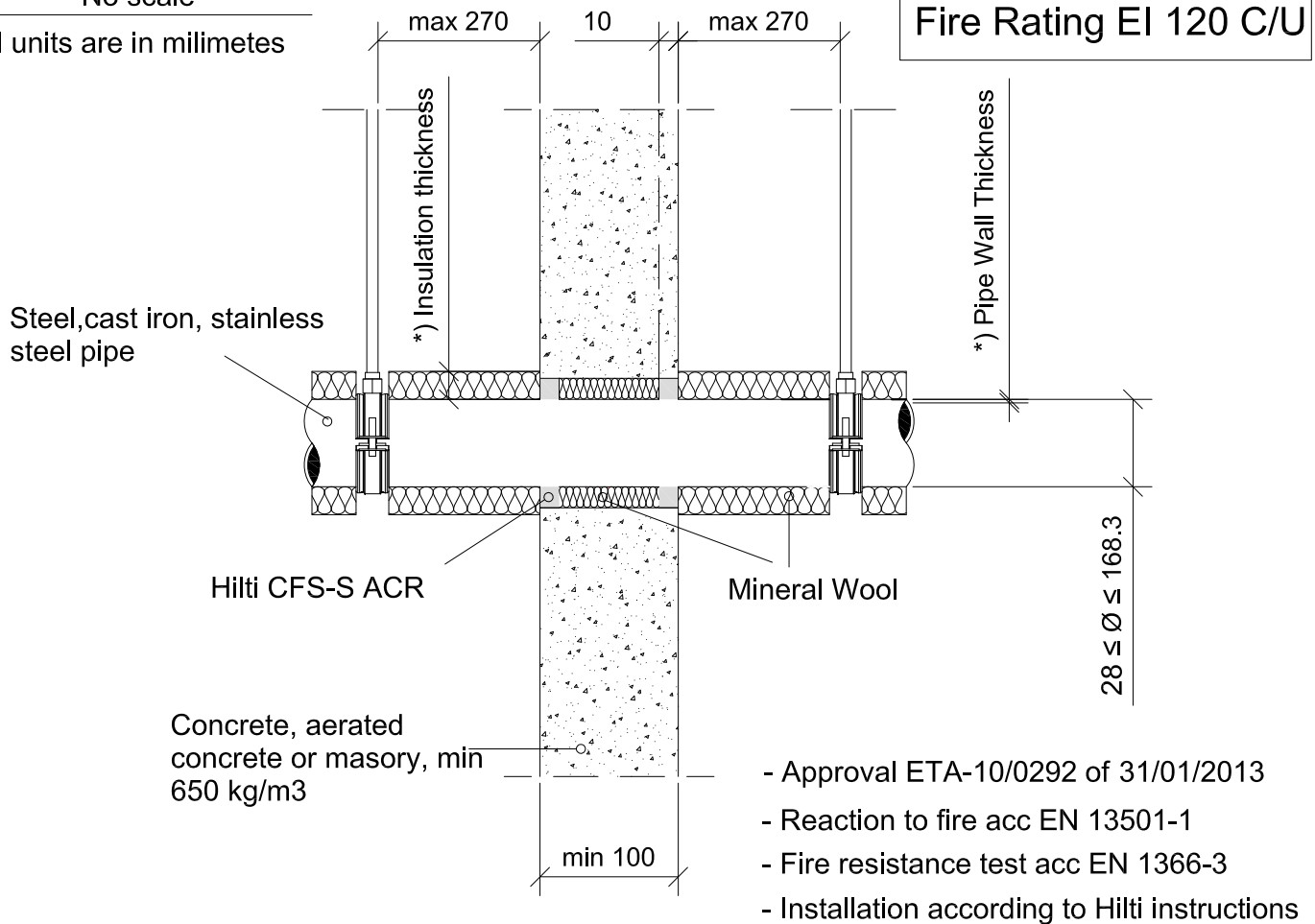
0035_01

REV 00

No scale

All units are in millimetres

Fire Rating EI 120 C/U



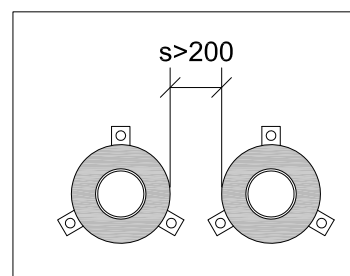
*) Pipe wall thickness and insulation

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Other criteria description
28-42	1.0/1.5-14.2	≥ 20	Interrupted or sustained insulation
42-88.9	1.5/2.0-14.2	≥ 40	Interrupted
26.9-48.3	1.4/1.6-14.2	≥ 20	Interrupted or sustained insulation
26.9-168.3	1.4/2.6-14.2	≥ 40	Interrupted or sustained insulation

Sound Insulation for rigid wall

$$D_{n,w} = 51 \text{ dB}$$

$$R_w = 58 \text{ dB}$$



Minimum distance between seals

HUOM! Mikäli dokumentin sisältöä muokataan, tulee hyväksynnän kattavuus tarkistaa.

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CONTENTS

Metal Pipe in a rigid wall

ID

REFR-RW-MP-0036

FIRESTOP ACRYLIC SEALANT

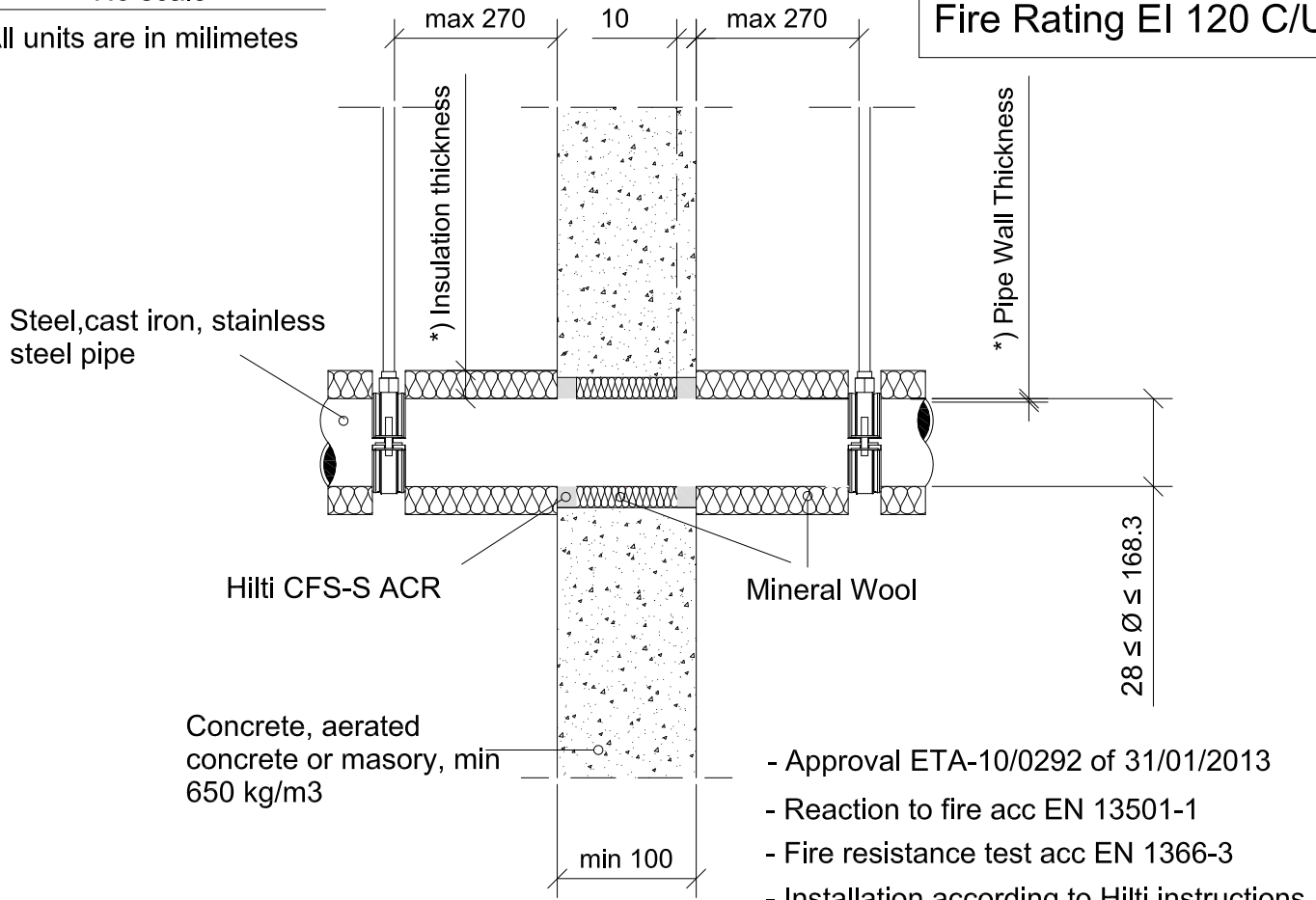
0036_01

REV 00

No scale

All units are in millimetres

Fire Rating EI 120 C/U



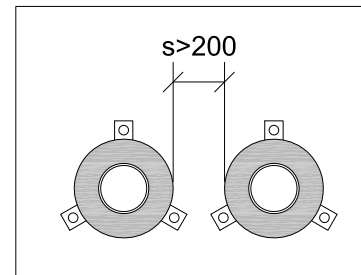
*) Pipe wall thickness and insulation

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Length on each side
28-42	1.0/1.5-14.2	20	Sustained	≥ 450
28-42	1.0/1.5-14.2	20	Interrupted	≥ 500
42	1.5-14.2	20-40	Sustained	≥ 500
42	1.5-14.2	20-40	Interrupted	≥ 500
42-88.9	1.5/2.0-14.2	40	Interrupted	≥ 500
88.9	2.0-14.2	40	Interrupted	≥ 700
26.9-48.3	1.4/1.6-14.2	20	Sustained	≥ 450
26.9-48.3	1.4/1.6-14.2	20	Interrupted	≥ 500
48.3	1.6-14.2	20-40	Sustained	≥ 500
48.3-168.3	1.6/2.6-14.2	40	Sustained	≥ 700
168.3	4.5-14.2	40	Interrupted	≥ 500
168.3	2.6-14.2	40	Interrupted	≥ 700

Sound Insulation for rigid wall

$$D_{n,w} = 51 \text{ dB}$$

$$R_w = 58 \text{ dB}$$



Minimum distance between seals



CONTENTS

Metal Pipe in a rigid wall

ID

REFR-RW-MP-0038

FIRESTOP ACRYLIC SEALANT

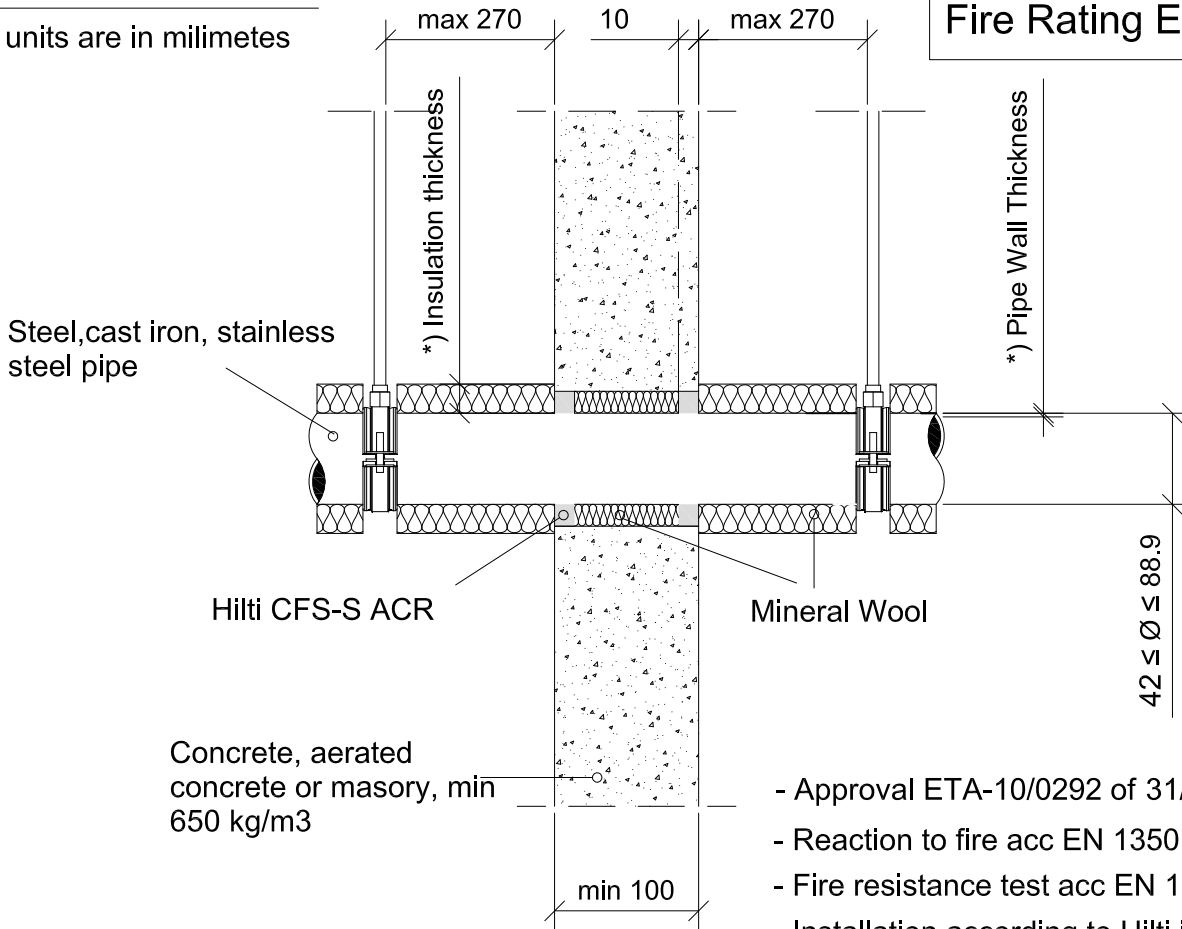
0038_01

REV 00

No scale

All units are in millimetres

Fire Rating EI 90 C/U

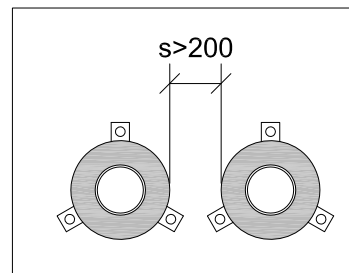


*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Other criteria description
42-88.9	1.5/2.0-14.2	≥ 40	Sustained insulation

Sound Insulation for rigid wall

$D_{n,w} = 51 \text{ dB}$
$R_w = 58 \text{ dB}$



Minimum distance between seals



CONTENTS

Metal Pipe in a rigid wall

ID

REFR-RW-MP-0039

FIRESTOP ACRYLIC SEALANT

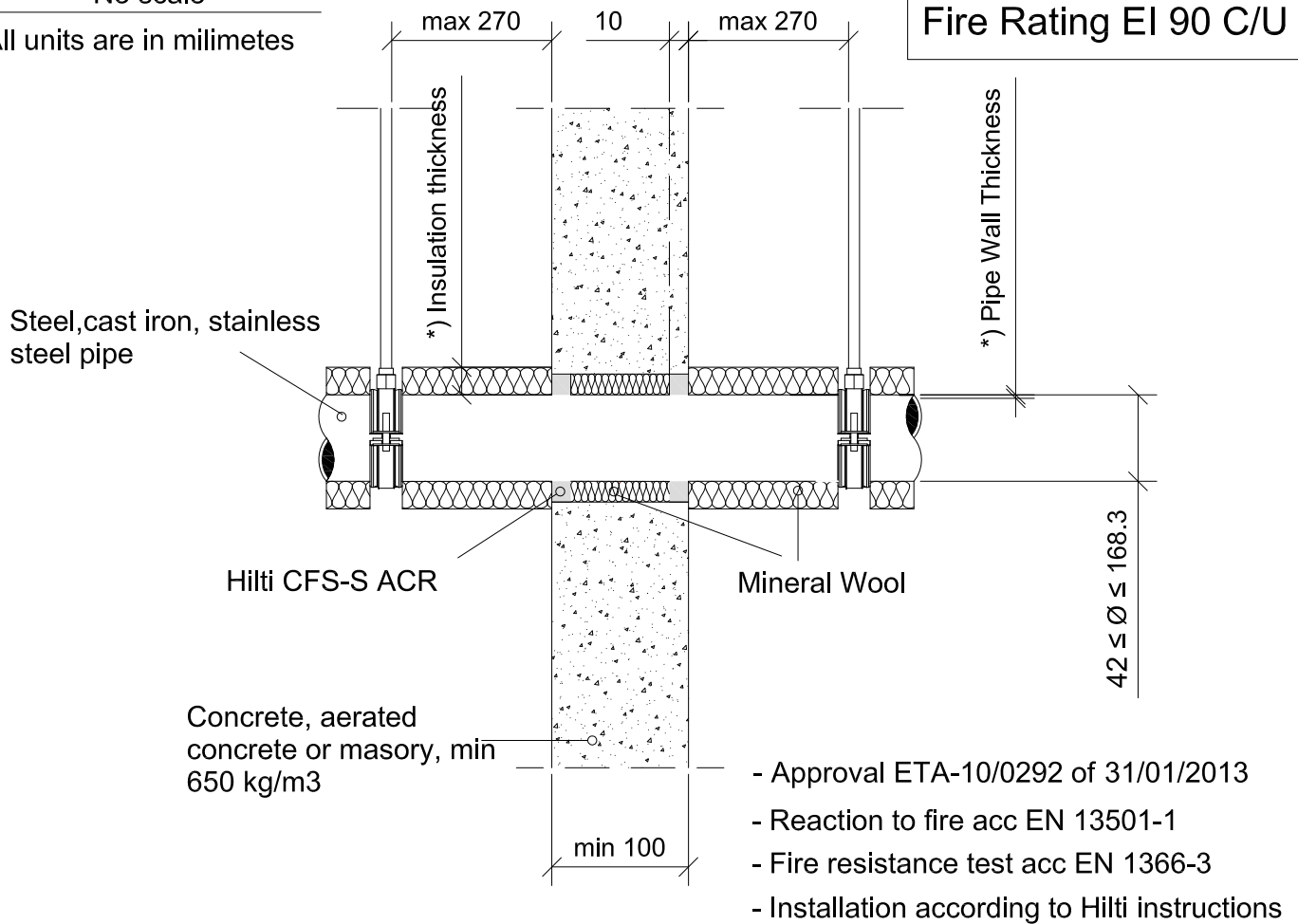
0039_01

REV 00

No scale

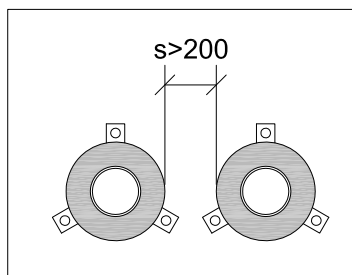
All units are in millimetres

Fire Rating EI 90 C/U



*) Pipe wall thickness and insulation

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Length on each side
42-88.9	1.5/2.0-14.2	40	Sustained	≥ 500
48.3-168.3	1.6/2.6-14.2	40	Sustained	≥ 450
48.3-168.3	1.6/2.6-14.2	40	Interrupted	≥ 700
168.3	2.6-4.5	40	Interrupted	≥ 500



Minimum distance between seals

Sound Insulation for rigid wall

$$D_{n,w} = 51 \text{ dB}$$

$$R_w = 58 \text{ dB}$$



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0044

FIRESTOP ACRYLIC SEALANT

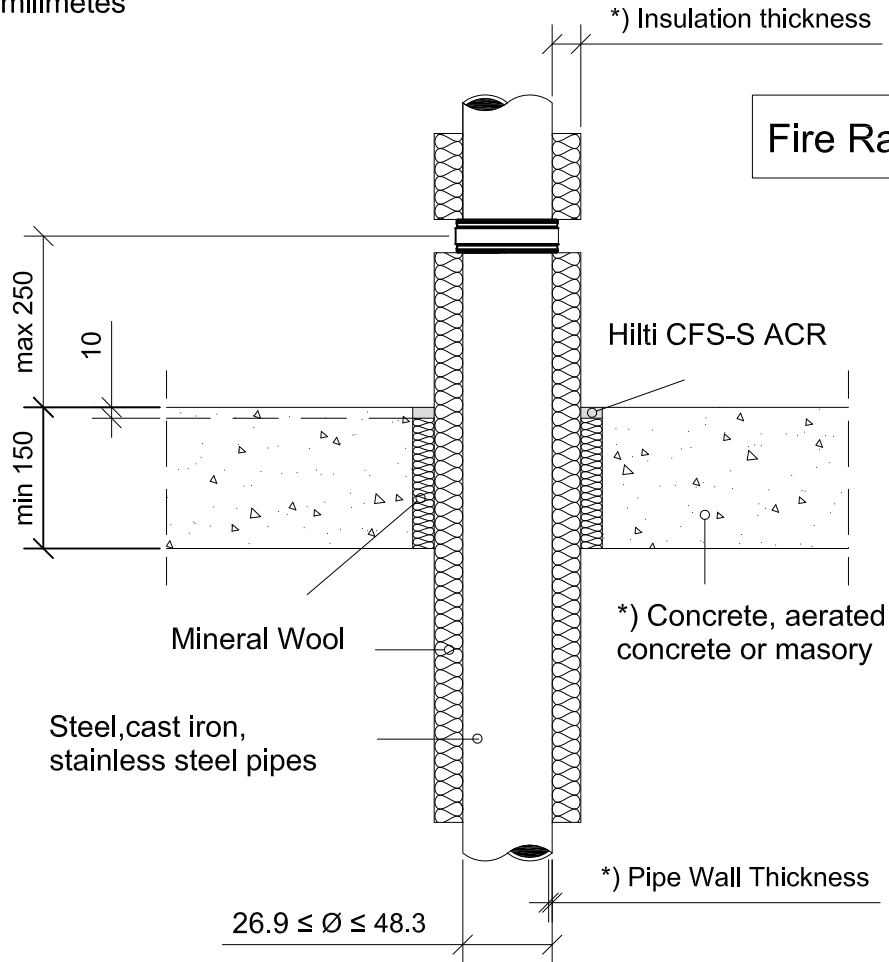
0044_01

REV

00

No scale

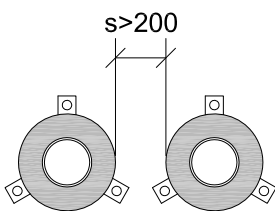
All units are in millimetres



*) Pipe wall and insulation thickness

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter
≥2400 kg/m ³	28	1.0-14.2	≥20	Sustained	≤ 260

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Annular Space
≥550 kg/m ³	26.9-48.3	1.4/1.6-14.2	≥20	Sustained	13-48
	26.9-48.3	1.4/1.6-14.2	≥20	Sustained	13-48



Minimum distance between seals

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0045

FIRESTOP ACRYLIC SEALANT

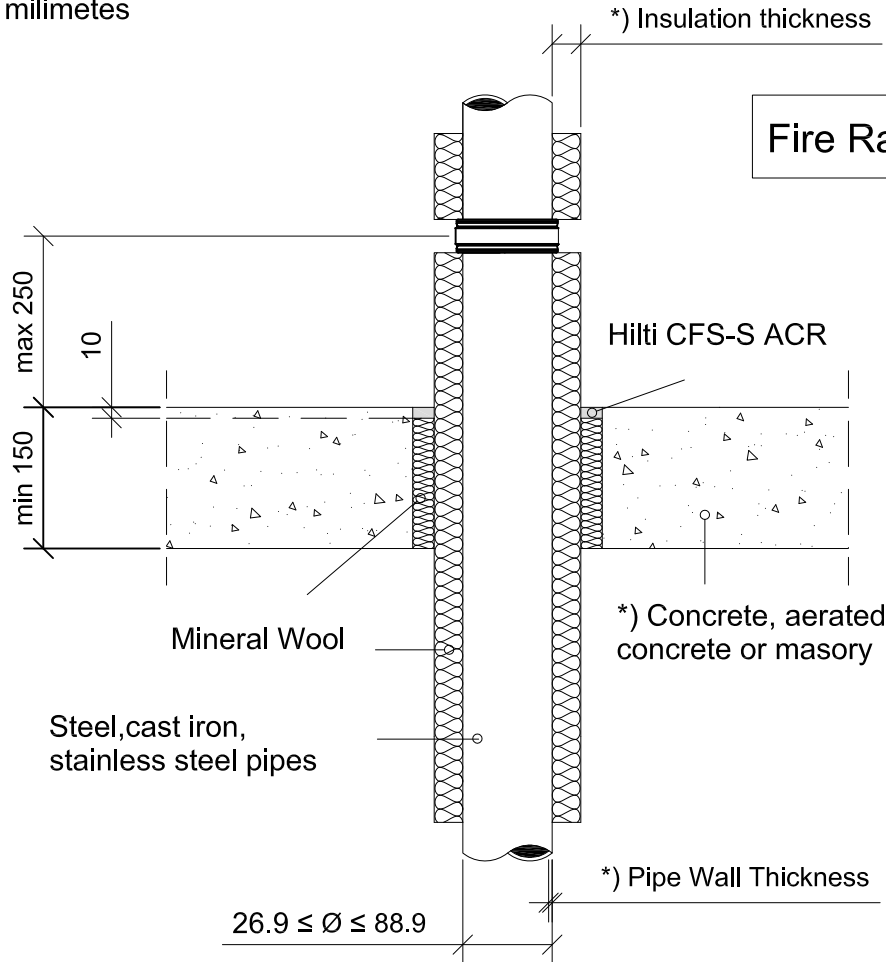
0045_01

REV

00

No scale

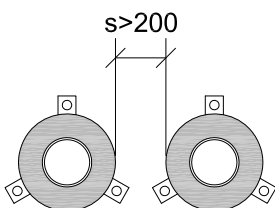
All units are in millimetres



*) Pipe wall and insulation thickness

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter	Length on each side
≥2400 kg/m ³	28	1.0/1.5-14.2	20	Sustained	≤ 260	≥425
	88.9	2.0-14.2	≥40	Sustained	≤ 260	≥700
	88.9	2.0-14.2	≥40	Interrupted	≤ 260	≥500

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Annular Space	Length on each side
≥550 kg/m ³	88.9	2.0-14.2	40	Sustained	13-48	≥700
	26.9-48.3	1.4/1.6-14.2	20	Sustained	13-48	≥450
	26.9-48.3	1.4/1.6-14.2	20	Interrupted	13-48	≥450



Minimum distance between seals

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0046

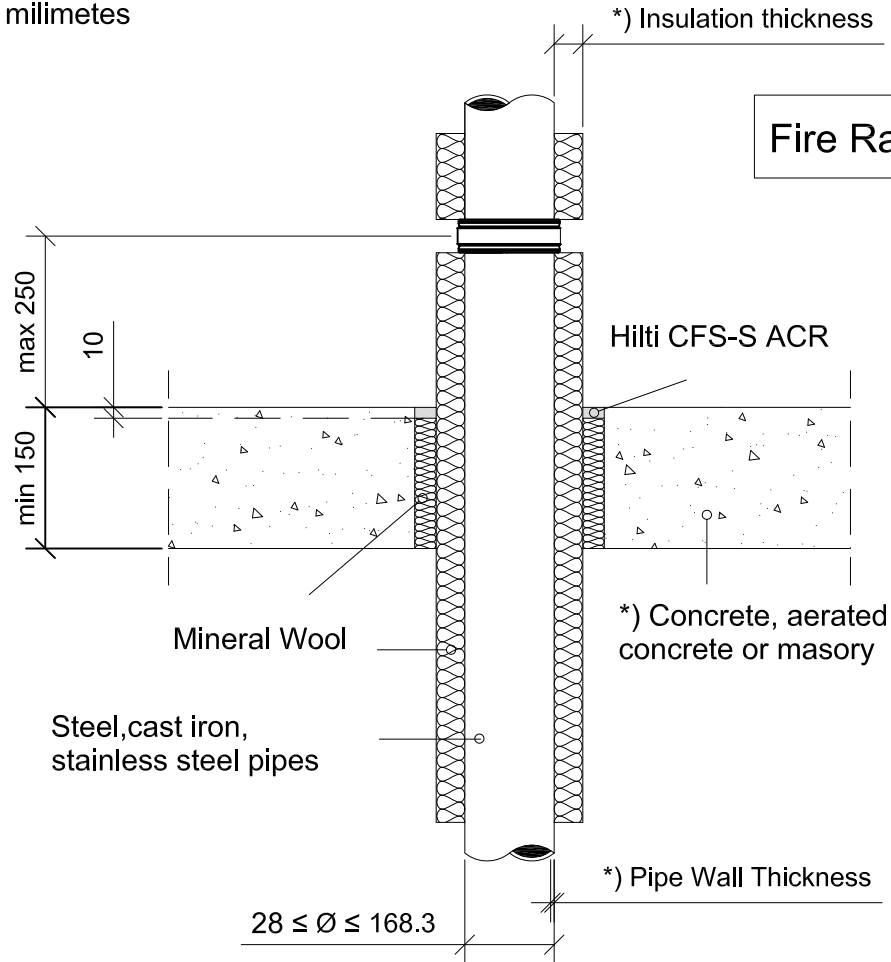
FIRESTOP ACRYLIC SEALANT

0046_01

REV
00

No scale

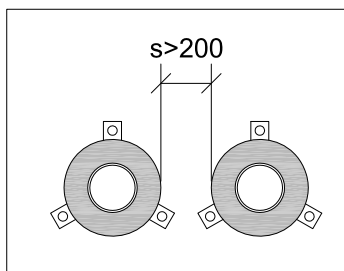
All units are in millimetres



- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

*) Pipe wall and insulation thickness

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter
≥550 kg/m ³	28-42	1.0/1.5-14.2	>20	Interrupted	≤ 300
	42	1.5-14.2	>20	Sustained	≤ 300
	42	1.5-14.2	>40	Interrupted	≤ 300
	26.9-168.3	1.4/2.6-14.2	>40	Sustained	≤ 300
	26.9-168.3	1.4/2.6-14.2	>40	Interrupted	≤ 300
≥2400 kg/m ³	28-42	1.0/1.5-14.2	>20	Sustained	≤ 300
	28-42	1.0/1.5-14.2	>20	Interrupted	≤ 300
	42-88.9	1.5/2.0-14.2	40	Interrupted	≤ 300



Minimum distance between seals



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0047

FIRESTOP ACRYLIC SEALANT

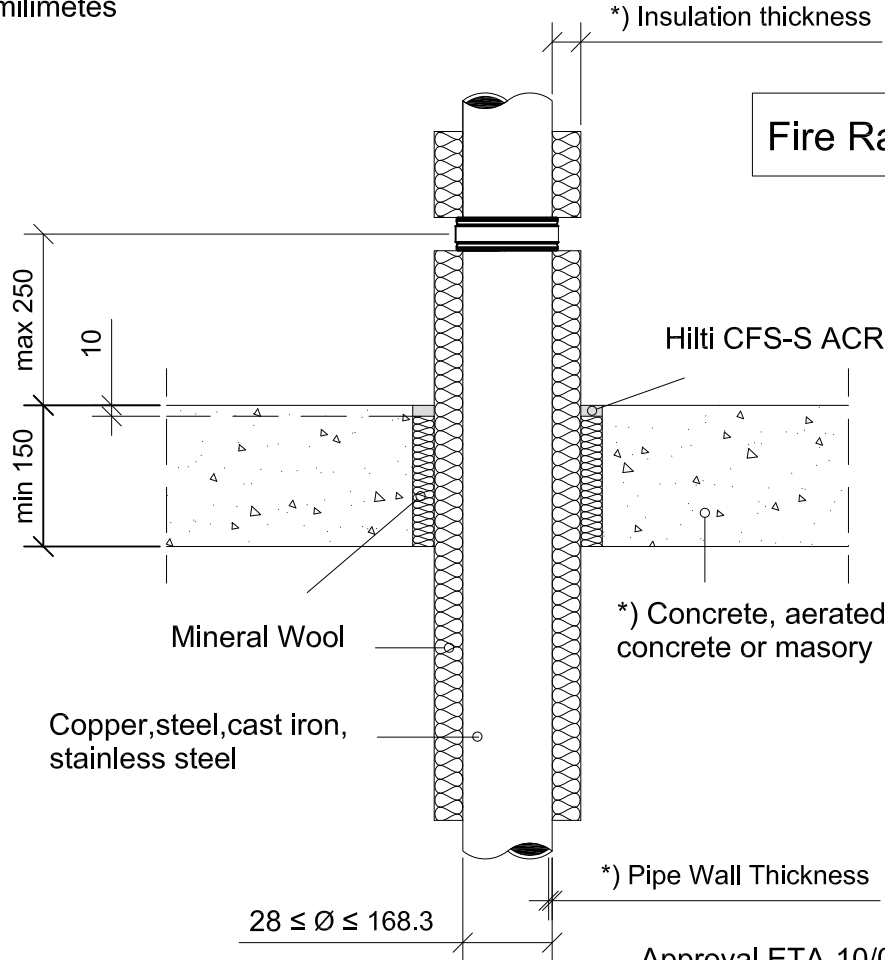
0047_01

REV

00

No scale

All units are in millimetres

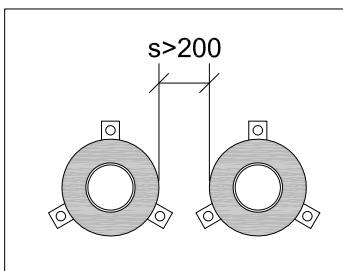


Fire Rating EI 120 C/U

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

*) Pipe wall and insulation thickness

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter	Length on each side
≥550 kg/m ³	28-42	1.0/1.5-14.2	20-40	Interrupted	≤ 300	≥600
	28-42	1.0/1.5-14.2	40	Interrupted	≤ 300	≥500
	42	1.5-14.2	20	Sustained	≤ 300	≥450
	42	1.5-14.2	20-40	Sustained	≤ 300	≥700
	42	1.5-14.2	20-40	Interrupted	≤ 300	≥500
	42-88.9	1.5/2.0-14.2	40	Sustained	≤ 300	≥700
	168.3	2.6-4.5	40	Sustained	≤ 300	≥700
	168.3	2.6-4.5	40	Interrupted	≤ 300	≥500
≥2400 kg/m ³	28-42	1.0/1.5-14.2	20	Sustained	≤ 300	≥450
	28-42	1.0/1.5-14.2	20-40	Interrupted	≤ 300	≥500
	28-42	1.0/1.5-14.2	20-40	Sustained	≤ 300	≥700
	42	1.5-14.2	20-40	Sustained	≤ 300	≥700
	42-88.9	1.5/2.0-14.2	40	Sustained	≤ 300	≥700
	42-88.9	1.5/2.0-14.2	40	Interrupted	≤ 300	≥500



Minimum distance between seals

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CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0050

FIRESTOP ACRYLIC SEALANT

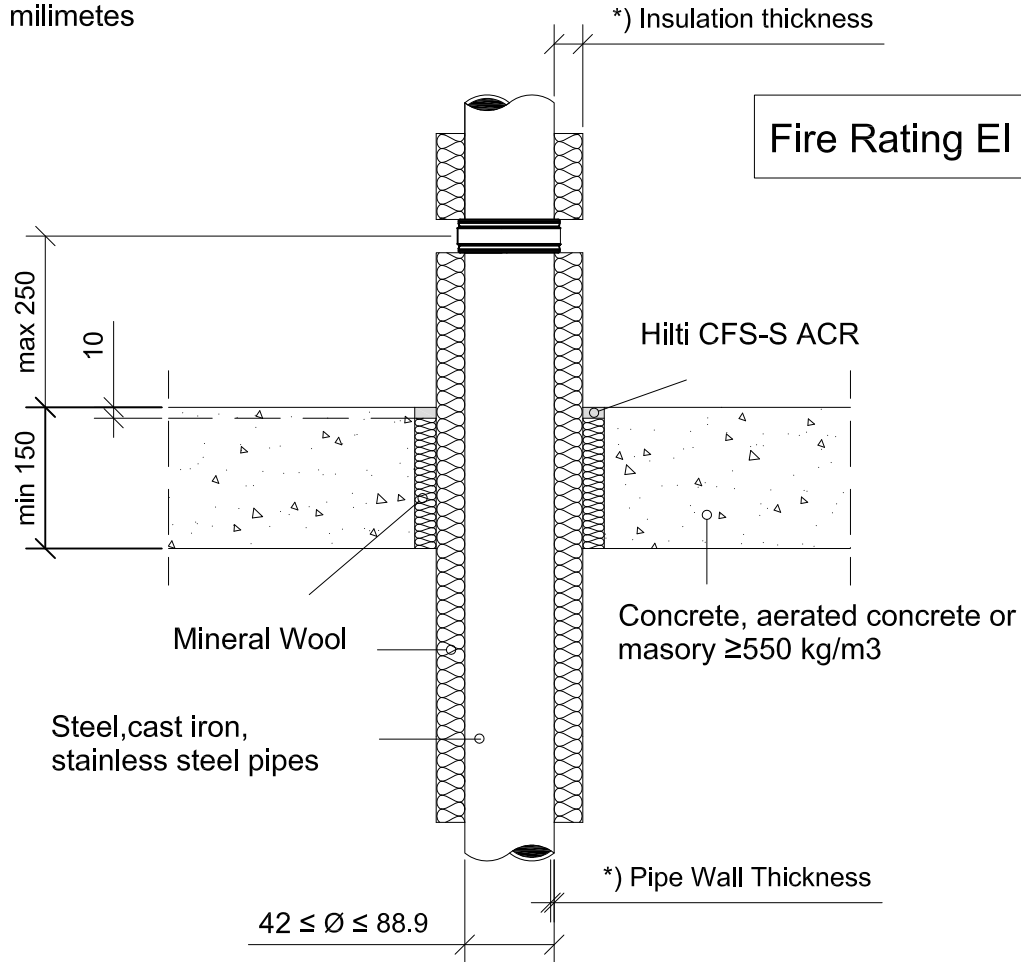
0050_01

REV

00

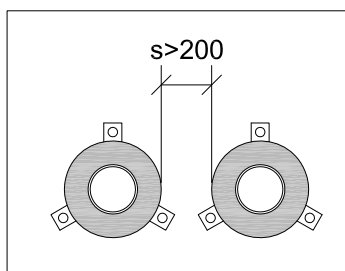
No scale

All units are in millimetres



*) Pipe wall and insulation thickness

Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter
42-88.9	1.5/2.0-14.2	≥40	Sustained	≤ 300



Minimum distance between seals

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions



CONTENTS

Metal Pipe in a rigid floor

ID

REFR-RF-MP-0051

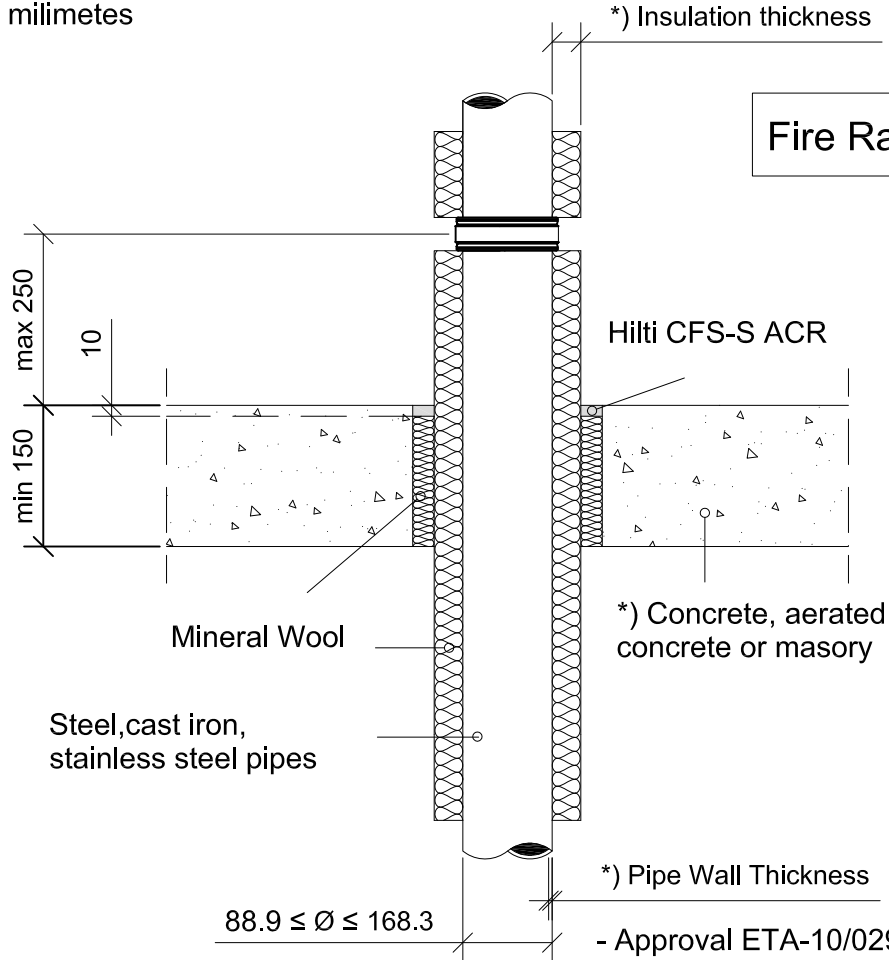
FIRESTOP ACRYLIC SEALANT

0051_01

REV
00

No scale

All units are in millimetres

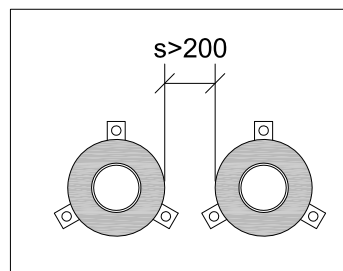


Fire Rating EI 90 C/U

- Approval ETA-10/0292 of 31/01/2013
- Reaction to fire acc EN 13501-1
- Fire resistance test acc 1366-3
- Installation according to Hilti instructions

*) Pipe wall and insulation thickness

Density Base Material	Pipe Ø	Pipe Wall Thickness	Insulation Thickness	Insulation	Seal diameter	Length on each side
≥550 kg/m ³	88.9	2.0-14.2	40	Sustained	≤ 300	≥500
	168.3	2.6-4.5	40	Sustained	≤ 300	≥500



Minimum distance between seals