



# HILTI CFS-CID 50 Firestop Cast In Device Instruction Manual

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## HILTI CFS-CID 50 Firestop Cast In Device



## Product Information

The Firestop Cast-in Device CFS-CID is a product designed to provide firestop protection for pipe penetrations in

concrete structures. It is suitable for various applications and offers several advantages.

#### **Applications:**

- Wastewater
- Roof drainage
- Drinking water
- Heating

#### **Advantages:**

- Easy installation
- Provides firestop protection
- Compatible with various pipe materials
- Allows for rigid floor partitioning

#### **Technical Data:**

- Base materials: Concrete
- Height: 250 mm
- Color: Red
- Re-penetration Reaction to fire class (EN 13501-1): Easy E

#### **Approvals:**

The Firestop Cast-in Device CFS-CID has been approved according to EN 13501-2: 2007+A1:2009 and EN 1366-3:2009 standards.

#### **Ordering Information**

Item Number	Description	Sales Pack Quantity
2124523	CFS-CID 50	1 pc
2124524	CFS-CID 75	1 pc
2124525	CFS-CID 110	1 pc
2124526	CFS-CID 160	1 pc

#### **Product Usage Instructions**

Follow the instructions below to properly use the Firestop Cast-in Device CFS-CID:

1. Ensure that the base material is concrete.
2. Determine the appropriate height of the device based on your specific requirements.
3. Select the correct item number and description for your desired diameter (50, 75, 110, or 160).
4. Order the device with the corresponding item number.
5. Upon receiving the device, carefully unpack it and inspect for any damage.

6. If using the CFS-CID Manifold Adapter, order it separately with item number 2124527.
7. If additional height extension is required, order the Extension Tubes with the appropriate item number (244252, 244253, 244254, or 244255).
8. Install the Firestop Cast-in Device CFS-CID according to the guidelines provided in the ETA-20/1233 document.
9. Ensure proper fixing to the formwork using wood nails.
10. Do not backfill the gap between the device and the pipe.
11. For pipe penetrations, refer to the approved applications and select the appropriate pipe material.
12. Follow the classification in rigid floor for the specific pipe material and thickness.

For any other approved applications or specific instructions, refer to the complete ETA-20/1233 document.

## **FIRESTOP CAST-IN DEVICE CFS-CID**

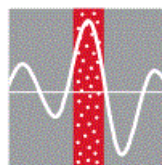


### **Applications**

- Concrete slabs built with traditional formwork
- New building construction
- Sealing combustible and non-combustible pipe penetrations
- Tested with pipe elbows, which allows reduced service zone

### **Advantages**

- One-step firestop solution for a variety of pipe materials and diameters – no additional backfilling required
- Modular connection allows close placement of multiple penetrations
- Quicker and simpler installation
- Integrated moisture and smoke seal
- Lid strong enough to carry foot traffic and light access equipment



### **Technical Data**

- Base materials Concrete
- Approvals EN 13501-2: 2007+A1:2009, EN 1366-3:2009

- Height 250 mm
- Application temperature range –5 – 50 °C
- Temperature resistance range –20 – 100 °C
- Color Red
- Re-penetration Easy
- Reaction to fire class (EN 13501-1) E



Ordering description	Pipe diameter – range	Sales pack quantity	Item number
CFS-CID 50	40 – 63 mm	1 pc	2124523
CFS-CID 75	50 – 75 mm	1 pc	2124524
CFS-CID 110	80 – 110 mm	1 pc	2124525
CFS-CID 160	125 – 160 mm	1 pc	2124526

## MANIFOLD ADAPTER CFS-CID

### Applications

- Creation of a 70 mm deep recess in a slab
- For use in conjunction with the appropriate cast-in device
- Creates an underside void for the installation of an elbow connector system

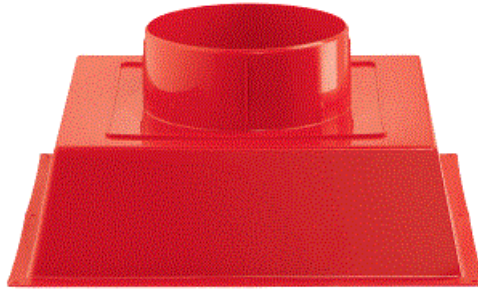
### Advantages

- Allows a manifold to be accommodated and thus simplifies plumbing installations
- Accommodates manifold connections and shower traps for walk-in showers and wet rooms

- Reduces final ceiling depth by creating a 70 mm recess in the slab
- Pipes can be installed closer to the ceiling, thus reducing spacing

#### Technical Data

- Base materials Concrete
- Height 77 mm
- Application temperature range –5 – 50 °C
- Color Red



Ordering description	Sales pack quantity	Item number
CFS-CID Manifold Adapter	1 pc	2124527

## HEIGHT EXTENSIONS CFS-CID

#### Applications

- For use with CFS-CID cast-in devices

#### Advantages

- The “Screw-on” feature promotes a secure connection to the device and cover cap
- Adds 150 mm of height to pre-formed firestop devices

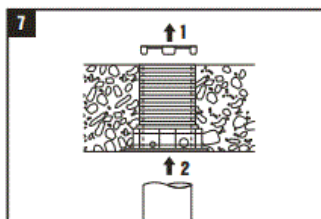
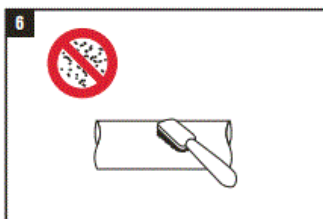
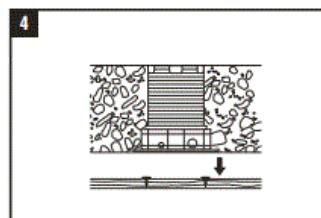
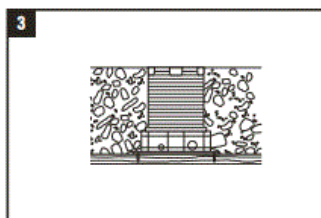
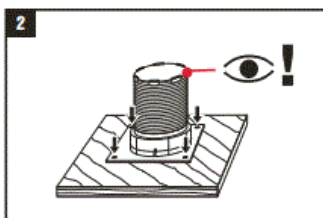
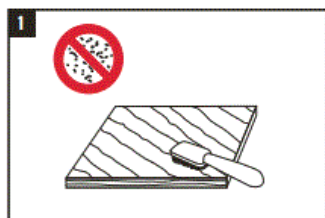
#### Technical Data

- Base materials Concrete
- Height 150 mm
- Application temperature range –5 – 50 °C
- Color Red



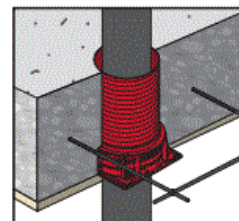
Ordering description	Pipe diameter – range	Sales pack quantity	Item number
Extension tube 6" CP 68 0-P 2"	40 – 63 mm	1 pc	244252
Extension tube 6" CP 68 0-P 3"	50 – 75 mm	1 pc	244253
Extension tube 6" CP 68 0-P 4"	90 – 110 mm	1 pc	244254
Extension tube 6" CP 68 0-P 6"	125 – 160 mm	1 pc	244255

## GENERAL INSTRUCTIONS FOR USE





## GENERAL INFORMATION



Partition	Rigid Floor
Base material thickness ( $t_E$ )	$\geq 150$ mm
Distance between devices	Zero for all pipe types
Fixing to formwork	Wood nails
Gap filling	No backfilling required
Penetrant	Combustible and non-combustible Pipes

## MAIN APPROVED APPLICATIONS

Application	Pipe material	Pipe Ø mm	Classification in rigid floor
<b>Waste water, Roof drainage</b> 	<b>PE/PE-HD</b> EN 1519-1, EN 12666-1 (covers EN 12201-2, EN 1519-1, EN 12666-1, EN 1455-1 (ABS), EN 1565-1 (SAN+PVC)) EN ISO 15494 (Industrial), DIN 8074	40 – 160	EI 180 U/U
	<b>PVC-U</b> EN 1329-1 or EN 1453-1 or EN 1452-1 (covers EN 1329-1, EN 1453-1, EN 1452-1, EN 1566-1), EN ISO 15493 (Industrial, equivalent EN 1452)	63 – 160	EI 180 U/U
	<b>PE S2 Geberit db20</b> (Non-regulated)	56 – 160	EI 180 U/U
	<b>PP (EN 1451-1, DIN 4102)*</b>	40 – 160	EI 180 U/U
	<b>PP-R DIN 8077/8078</b> (e.g. Aquatherm)	32 – 160	EI 180 U/C
<b>Drinking water</b> 	<b>PE-Xa Rehau Rautitan Flex</b>	32 – 63	EI 180 U/U
	<b>AL-composite pipes with elastomeric insulation</b> (e.g. Geberit Mepla, etc)	40	EI 180 U/C
<b>Heating</b> 	Copper, steel, stainless steel and cast iron with elastomeric, glass or mineral wool insulation	18 – 89	EI 180 C/U

\* Coes “Blue Power”, Coes “PhoNoFire”, “Geberit Silent PP”, Marley Silent, Ostendorf “Skolan-dB”, Pipelife “Master 3”, POLOPLAST “Polokal NG”, POLOPLAST “Polokal 3S”, “POLOPLAST Polokal XS”, Rehau “Raupiano Plus”, Wavin “AS”, KeKelit “Phonex AS”, Wavin “SiTech”, Valsire “Triplus”, Valsire “Silere”  
 Excerpt of ETA document. Check the exact field of application for each pipe (type, diameter and pipe wall thickness) in the ETA-20/1233 document.

## OTHER APPROVED APPLICATIONS

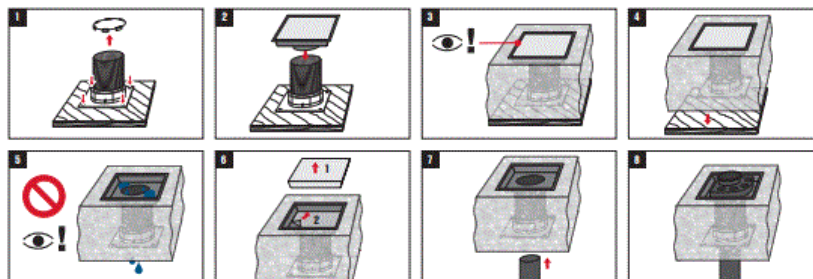
### CFS-CID Manifold Adapter

Dimensions:

280 × 280 × 75 mm

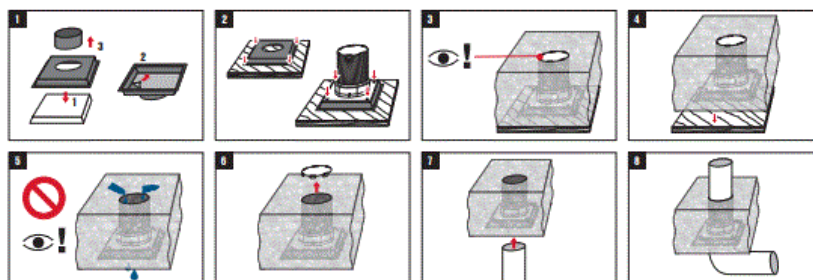
To use with Firestop Cast-in Device CFS-CID 110 mm

### Recess for pipe junctions



### Recess for pipe elbow couplers

EI 180 U/U for PVC and HD-PE pipes Ø = 110 mm



### Firestop Cast-in Extensions

Adds an extra 150 mm to the Cast-in Device with a strong and stable connection.

Coupler and extensions available for all CFS-CID diameters.



### Firestop Cast-in CFS-CID without pipe penetrations

All sizes tested and approved only with the lid on top.



See ETA-20/1233 for details of approved pipes

### Zero distance between Cast-in Devices

It is possible to assemble Firestop Cast-in Devices with zero separation between them.



See ETA-20/1233 for details of approved pipes

## CHARACTERISTICS OF CFS-CID



Characteristics	Assessment of characteristics	Norm, standard, test
<b>Health and the environment</b> Emission test	CFS-CID was tested for VOC emissions according to ISO 16000 and was deemed compliant to the AgBB regulations (version 2010). The concentration of SVOC after 3 and 28 days was $< 5 \mu\text{g}/\text{m}^3$ . The concentration of the total emission of VOC after 3 and 28 days was $\leq 25 \mu\text{g}/\text{m}^3$	Material safety data sheet
<b>Protection against noise</b> Airborne sound insulation	Hilti CFS-CID 50 $D_{n,w} = 55 \text{ dB}$ Hilti CFS-CID 75 $D_{n,w} = 51 \text{ dB}$ Hilti CFS-CID 110 $D_{n,w} = 48 \text{ dB}$ Hilti CFS-CID 160 $D_{n,w} = 46 \text{ dB}$	EN ISO 10140-1 EN ISO 10140-2 EN ISO 717-1
<b>Durability and serviceability</b>	Category Y2 (suitable for penetration seals for use in dry indoor conditions at temperature below $0^\circ\text{C}$ with with no exposure to rain nor UV	EAD 350454-00-1104
<b>Reaction to fire</b>	Class E	EN 13501-1

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## Documents / Resources

	<p><a href="#">HILTI CFS-CID 50 Firestop Cast In Device</a> [pdf] Instruction Manual</p> <p>CFS-CID 50, CFS-CID 75, CFS-CID 110, CFS-CID 160, CFS-CID 50 Firestop Cast In Device, Firestop Cast In Device, Cast In Device, In Device, Device</p>
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