FIRESTOP AND FIRE PROTECTION SYSTEMS

Firestop Sealants, Sprays

Firestop Putties

Firestop Foams

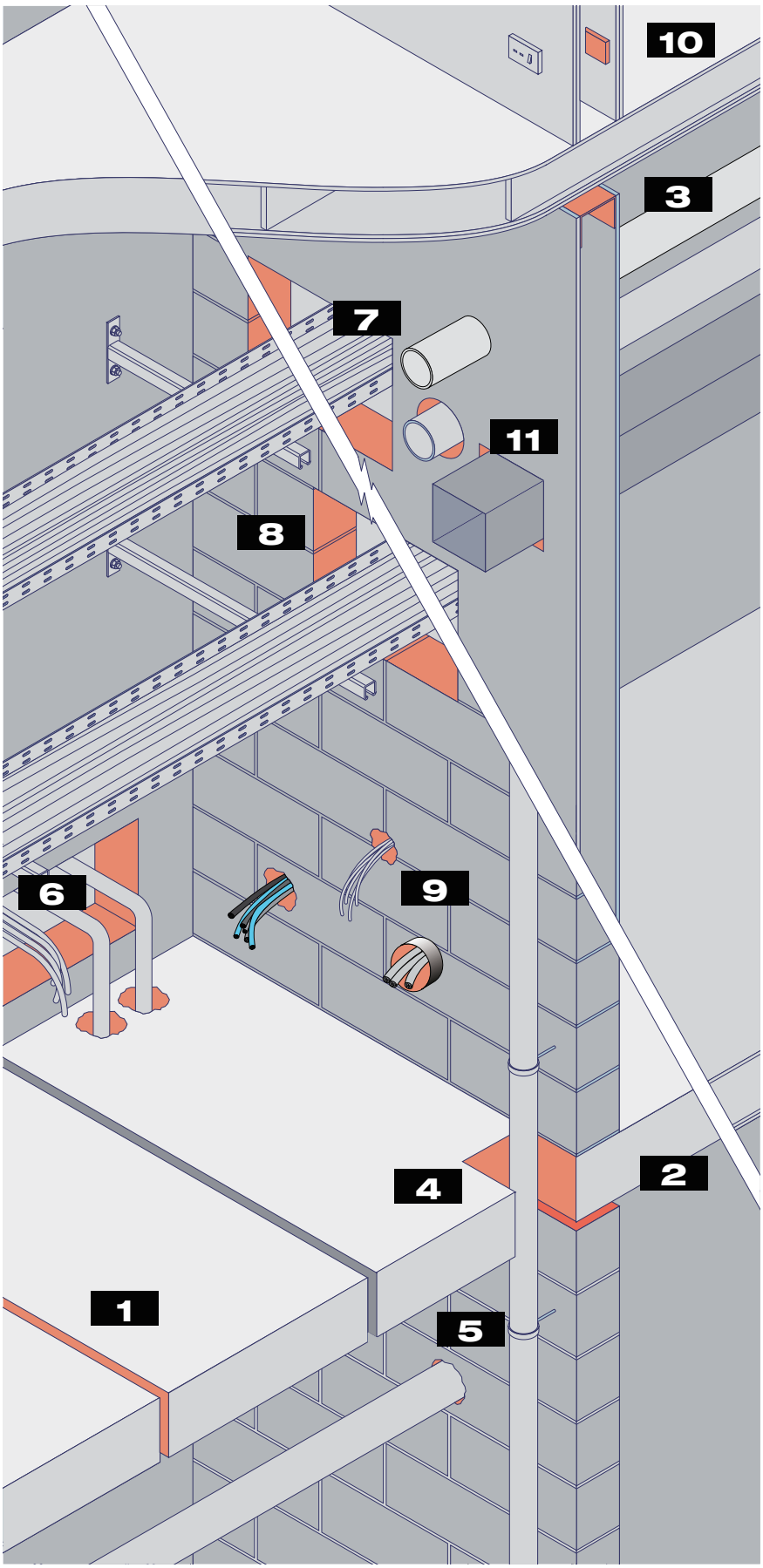
Firestop Block and Plug Systems

Firestop Coating Systems, Cushions and Mortars

Firestop Collars, Wraps and Bandages

Firestop Cast-In and Sleeve Devices

Cable Protection



Problem

The illustration on the left indicates a range of typical problems facing the designer.

Construction may consist of:

- concrete
- concrete block
- wood
- gypsum

The problem areas are:

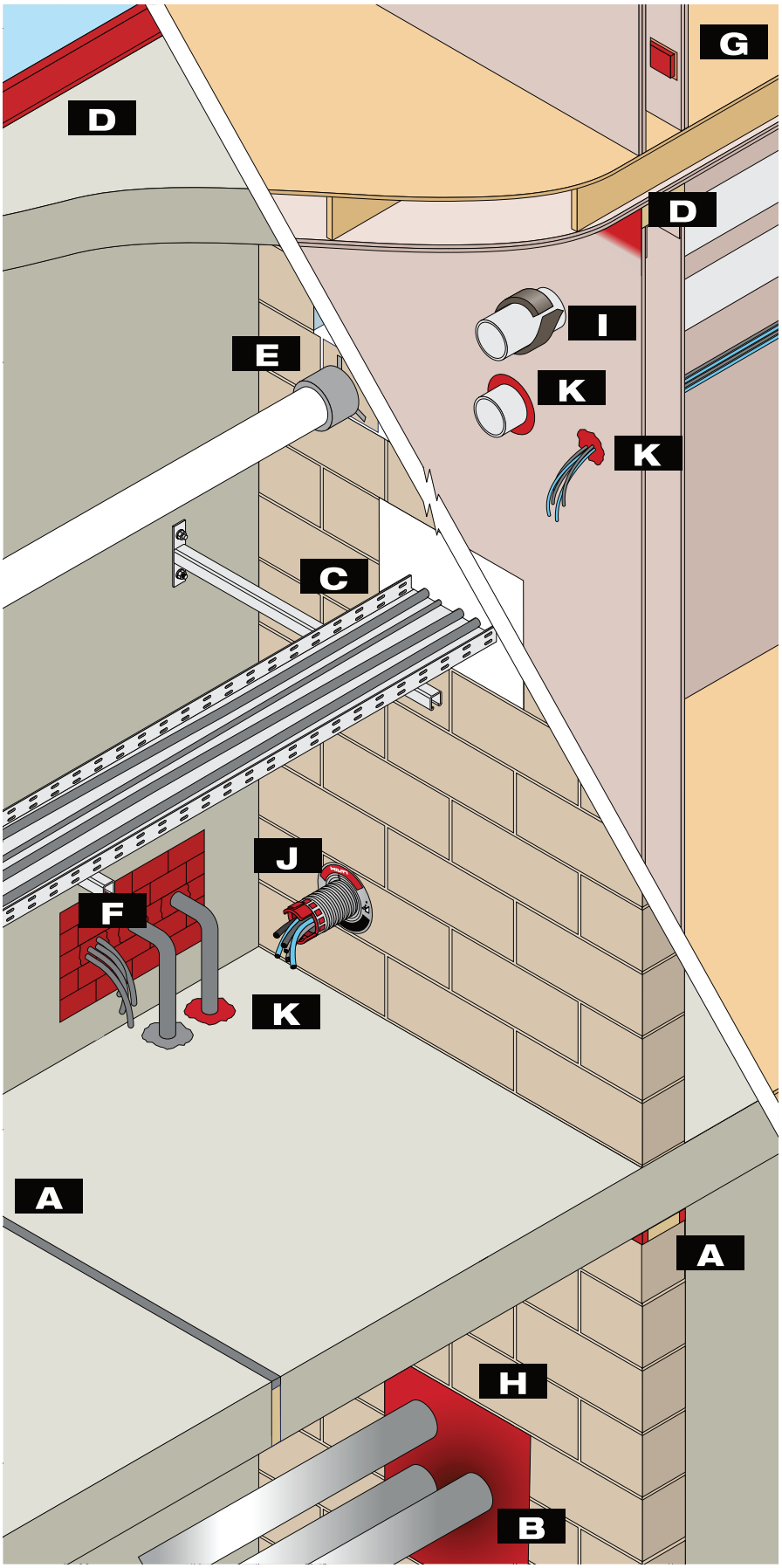
1. Movement joints
2. Rigid or low movement joints
3. Head of wall and perimeter joints
4. Metal
5. Plastic pipes
6. Multiple penetrations, pipes and/ or cables
7. Cable trays (with permanent sealing of opening during construction, or temporary sealing allowing additional cables to be installed subsequently)
8. Cable trays (with permanent sealing of opening during construction)
9. Cables (single or bundled)
10. Electrical boxes
11. Heating/ventilation/air conditioning

Fire resistance rating

To help prevent the rapid spread of fire within a building, certain walls, floors and joints are required to meet a specific fire resistance rating — the period of time during which a building component has been tested to confine a fire or continue to perform a structural function or both. Through-penetrations and joints created during the construction process require the installation of firestop systems in order to bring the wall or floor back up to its or orginal fire-rating.

Firestopping

It is essential that every penetration or joint in a fire-rated wall or floor is adequately protected by sealing — or “firestopping” — such that the building componet is restored to its original fire-rated condition in order to maintain compartmentalization. The quality and excellence of Hilti Firestop Products help ensure that fire, smoke and toxic gases are contained to reduce the tragic loss of human life and damage to property.



Hilti Firestop Solutions

The illustration on the left provides a basic guide to the range of Hilti Firestop products available for the applications shown.

Building Construction& Façade Application

- A Flexible Firestop Sealant (CP 606/601S)
- B Firestop Mortar (CP 636)/
  Firestop composite sheet (CFS-COS)
- C Firestop Board (CP 670)
- D Firestop Joint Spray (CFS-SP WB)

Mechanical & Eelectrical Application

- E Firestop Collar (CP 643N/644/CFS-C EL)
- F Firestop Block (CFS-BL)
- G Firestop Putty Pad (CP 617)
- H Fire Foam (CP 620/CFS-F FX)
- I Firestop Wrap Strip (CP 648-E)
- J Speed Sleeve (CFS-SL GA)
- K FS-ONE MAX High Performance Intumescent Sealant
  Firestop intumescent Sealant CP 611A
  Firestop cable disc CFS-D 1”

Hilti Firestop
Saving lives
through innovation
and education

CP PRODUCTS TESTED FOR

At least 13 other types of test have been carried out covering properties such as water tightness, chemical compatability, explosion resistance, radiation resistance, mould resistance, electrical resistance, etc.

CP 606	Low VOC	Fire	Smoke /Gas Tightness	Water Tightness	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 601S	Low VOC	Fire	Smoke /Gas Tightness	Water Tightness	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
FS-One Max	Low VOC	Fire	Smoke /Gas Tightness	Water Tightness	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 611A	Low VOC	Fire	Smoke /Gas Tightness	Water Tightness	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CFS-SP WB	Low VOC	Fire	Smoke /Gas Tightness	Water Tightness	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 617	Low VOC	Fire			Acoustic Insulation	Mould & Mildew		PLANNED
CFS-D 1”	Low VOC	Fire	WITH SEALANT			Mould & Mildew		PLANNED
CP 620	Low VOC	Fire	Smoke /Gas Tightness	Water Tightness	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CFS-F FX	Low VOC	Fire	Smoke /Gas Tightness		Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CFS-BL	Low VOC	Fire	Smoke /Gas Tightness		Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 636	Low VOC	Fire			Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 670	Low VOC	Fire	Smoke /Gas Tightness	Water Tightness	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 651 N		Fire	WITH SEALANT		Acoustic Insulation	Mould & Mildew		30 ans Resistance to Aging*
CFS-B	Low VOC	Fire	WITH SEALANT	WITH SEALANT	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 643	Low VOC	Fire	WITH SEALANT	WITH SEALANT	NOT APPLICABLE	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 644		Fire	WITH SEALANT	WITH SEALANT	NOT APPLICABLE	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CFS-C EL	Low VOC	Fire	WITH SEALANT	WITH SEALANT	Acoustic Insulation	Mould & Mildew		30 ans Resistance to Aging*
CP 648-E	Low VOC	Fire	WITH SEALANT	WITH SEALANT	Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CFS-SL GA	Low VOC	Fire			Acoustic Insulation	Mould & Mildew	Siesmic	30 ans Resistance to Aging*
CP 678	Low VOC	Fire				Mould & Mildew	Siesmic	PLANNED
CFS-COS	Low VOC	Fire	WITH SEALANT	WITH SEALANT	Acoustic Insulation	Mould & Mildew		PLANNED

* Fire resistance test reports / approvals / certificates normally do not contain any information on the service life of a firestop product / assembly. By carrying out own additional ageing tests which simulate extreme temperature / humidityconditions, Hilti provides its customers with a very high level information on product reliability and service life expectancy of the Hilti firestop systems. On the basis of the ageing cycles obtained in these test procedures as well as of experience gained in the field of concrete construction, it can be assumed that Hilti firestop systems have a service life (ageing resistance) of approximately 30 years from manufacturing date.

PRODUCTS APPROVALS AND TESTING

CP 606	British Standard BS 476-20	BS EN 1366-3	FM APPROVED	CLASSIFIED c UL us
CP 601S	British Standard BS 476-20	BS EN 1366-3		CLASSIFIED c UL us
FS-One Max	British Standard BS 476-20		FM APPROVED	CLASSIFIED c UL us
CP 611A	British Standard BS 476-20	BS EN 1366-3		
CFS-SP WB		BS EN 1364-4 BS EN 1364-3	FM APPROVED	CLASSIFIED c UL us
CP 617	British Standard BS 476-20	BS EN 1364-1	FM APPROVED	CLASSIFIED c UL us
CFS-D 1”	British Standard BS 476-20	BS EN 1364-1	FM APPROVED	CLASSIFIED c UL us
CP 620	British Standard BS 476-20		FM APPROVED	CLASSIFIED c UL us
CFS-F FX		BS EN 1366-3		
CFS-BL	British Standard BS 476-20	BS EN 1366-3	FM APPROVED	CLASSIFIED c UL us
CP 636	British Standard BS 476-20	BS EN 1366-3	FM APPROVED	CLASSIFIED c UL us
CP 670	British Standard BS 476-20	BS EN 1366-3		
CP 651 N	British Standard BS 476-20	BS EN 1366-3		
CFS-B	British Standard BS 476-20			
CP 643	British Standard BS 476-20	BS EN 1366-3	FM APPROVED	CLASSIFIED c UL us
CP 644	British Standard BS 476-20	BS EN 1366-3		CLASSIFIED c UL us
CFS-C EL	British Standard BS 476-20	BS EN 1366-3		
CP 648-E	British Standard BS 476-20	BS EN 1366-3	FM APPROVED	CLASSIFIED c UL us
CFS-SL GA	British Standard BS 476-20	BS EN 1366-3	FM APPROVED	CLASSIFIED c UL us
CP 678	British Standard BS 476-20		FM APPROVED	
CFS-COS	British Standard BS 476-20		FM APPROVED	CLASSIFIED c UL us

Please note that this expected long-term ageing resistance of Hilti firestop systems, which is given on the basis of the above-mentioned tests, depends on a number of factors on which Hilti basically has no influence (e.g. environmental factors such as extreme environmental conditions, e.g. chemicals, etc.) and, therefore, are subject to the following conditions which must be strictly observed by the user with regard to the respective Hilti firestop system:
- Strict adherence to the Hilti’s operating, setting, installing and other technical instructions;
- Rigorous compliance with all other conditions set in the respective specifications during the lifetime of the Hilti firestop systems, in particular with regard to regular control and maintenance as well as to foreseeable use under normalclimatic condition in the respective field of application.

Customer Hotline: Hong Kong 8228 8118, Macau 00800 8228 8118 Email: hksales@hilti.com

Flexible firestop sealant CP 606

APPLICATIONS

- Sealing rigid or low-movement ceiling/wall joints, widths from 6 to 30 mm
- Sealing metal pipe penetrations
- For use in various base materials such as masonry, concrete, drywall and metal

ADVANTAGES

- Paintable
- Easy to clean up with water
- Smoke, fume and water resistant

Technical data	
Chemical basis	Water-based acrylic dispersion
Base materials	Concrete, Masonry, Drywall, Steel
Movement[1)]	±12.5% (ISO 11600)
Approx. tack-free time (ventilated at 77°F, 80% rel. humidity)	20 min
Approx. curing time[2)]	3 mm/3 days
Average volume shrinkage	22.2%
Application temperature range	5 - 40 °C
Temperature resistance range	-30 - 80 °C
Storage and transportation temperature range	5 - 25 °C
Shelf life[3)]	24 Months

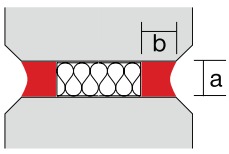
[1)] according to HTC 1250
[2)] at 75°F/24°C, 50% relative humidity
[3)] at 77°F/25°C and 50% relative humidity; from date of manufacture

Consumption Guide

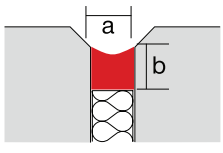
Cartridge volume = 310 ml (CP 606)
a = Joint width in mm
b = Sealant depth in mm

$$\text{Linear metre per cartridge} = \frac{\text{Cartridge volume in ml}}{a \times b}$$

e.g.a floor 20mm wide with product depth of 10mm; with 310ml cartridge
Therefore linear metres per cartridge = 310/(20 x 10) = 1.55 metre per cartridge for one side of the floor



Wall

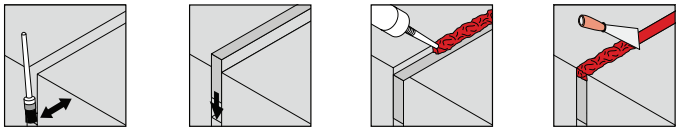


Floor

Joint width (mm)	0-15	16-20	21-30
Sealant depth (mm)	6	10	15

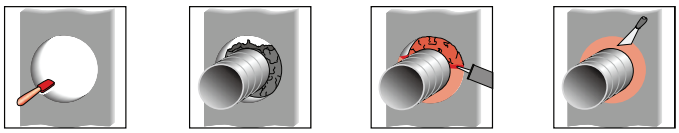
Application Procedure

Joint installation



1. Clean opening *2. Insert backing material* *3. Apply CP 606* *4. Smooth CP 606*

Pipe installation (non-combustible pipes only)



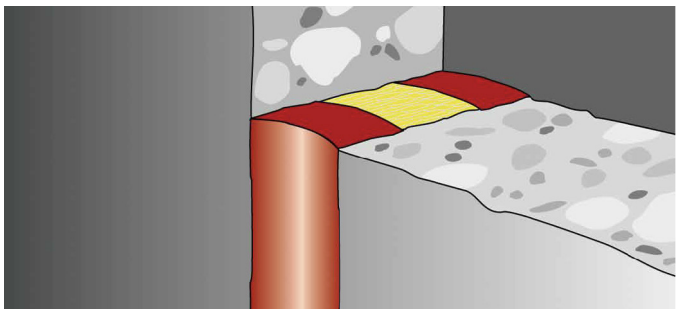
1. Clean opening *2. Insert backing material* *3. Apply CP 606* *4. Smooth CP 606*

Order Now

Ordering designation	Colour	Volume per unit	Packaging	Sales pack quantity	Item number
CP 606 310ml INT grey	Grey	310 ml	Cartridr	1 pc	**209630**
CP 606 580ml INT grey	Grey	580 ml	Foil pack	1 pc	**209633**
CP 606 310ml white	white	310 ml	Cartridr	1 pc	**209625**
CP 606 580ml white	white	580 ml	Foil pack	1 pc	**209632**

Please visit Hilti website for the latest item numbers and related products

Elastomeric silicone sealant CP 601S



APPLICATIONS

- Expansion or stretched connection joints in fire compartment walls and floors
- Uninsulated metal pipes in penetrations through fire compartment walls and floors
- Acoustic insulation of pipes
- Suitable for outdoor use
- For use on concrete and masonry (indoors/outdoors)

ADVANTAGES

- Weather and UV-resistant
- Excellent movement capability
- Smoke, gas and water-resistant

Technical data	
Chemical basis	Neutral elastic silicone
Base materials	Masonry, Metal, Concrete, Glass
Movement[1)]	± 25% (ISO 11600)
Approx. tack-free time (ventilated at 77°F, 80% rel. humidity)	15 min
Approx. curing time[2)]	2 mm/3 days
Average volume shrinkage	5 %
Application temperature range	5 - 40 °C
Temperature resistance range	-40 - 160 °C
Storage and transportation temperature range	5 - 25 °C
Shelf life[3)]	12 Months

[1)] according to HTC 1250
[2)] at 75°F/24°C, 50% relative humidity
[3)] at 77°F/25°C and 50% relative humidity; from date of manufacture

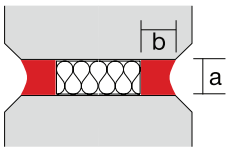
Smoke | Water Tight | Acoustic | Siesmic

Low VOC | Mould & Mildew

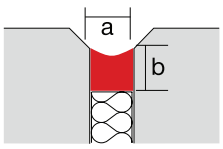
Consumption Guide

Cartridge volume = 310 ml (CP 601S)
a = Joint width in mm
b = Sealant depth in mm
Linear metre per cartridge = $\frac{\text{Cartridge volume in ml}}{a \times b}$

e.g.a floor 50mm wide with product depth of 10mm; with 310ml cartridge
Therefore linear metres per cartridge = 310/(50 x 15) = 0.41 metre per cartridge for one side of the floor



Wall

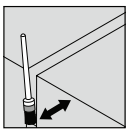


Floor

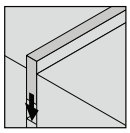
Joint width (mm)	0-15	16-100
Sealant depth (mm)	6	15

Application Procedure

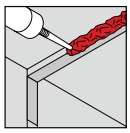
Joint installation



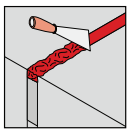
1. Clean opening



2. Insert backing material

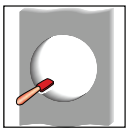


3. Apply CP 601S



4. Smooth CP 601S

Pipe installation (non-combustible pipes only)



1. Clean opening

2. Insert backing material

3. Apply CP 601S

4. Smooth CP 601S

Order Now

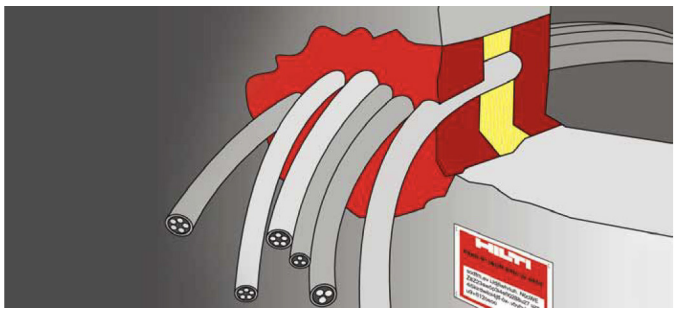
Ordering designation	Colour	Volume per unit	Packaging	Sales pack quantity	Item number
CP 601S 310ML grey	Grey	310 ml	Cartridr	1 pc	**310635**
CP 601S 600ML grey	Grey	600 ml	Foil pack	1 pc	**312111**[1)]
CP 601S 310ML white	White	310 ml	Cartridr	1 pc	**310633**
CP 601S 600ML white	White	600 ml	Foil pack	1 pc	**310637**[1)]

[1)] For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Customer Hotline: Hong Kong 8228 8118, Macau 00800 8228 8118 Email: hksales@hilti.com

High performance intumescent firestop sealant FS-ONE MAX



APPLICATIONS

- For effectively sealing most common through penetrations in a variety of base materials
- Copper and EMT pipes
- Insulated steel and copper pipes
- Single cables and cable bundles
- Closed or vented plastic pipes
- HVAC penetrations

ADVANTAGES

- One product for most firestop applications
- Cost-effective solution
- Easy to work with and fast cleanup

Technical data	
Chemical basis	Water-based acrylic dispersion
Base materials	Concrete, Concrete block, Metal, Wood, Gypsum
Expansion ratio (unrestricted, up to)	1:5
Approx. curing time[1)]	4 mm/3 days
Average volume shrinkage	19.4 %
Application temperature range	5 - 40 °C
Temperature resistance range	-20 - 100 °C
Storage and transportation temperature range	5 - 25 °C
Shelf life[3)]	18 Months

[1)] at 75°F/24°C, 50% relative humidity
[2)] at 77°F/25°C and 50% relative humidity; from date of manufacture

Smoke | Water Tight | Acoustic | Siesmic

Low VOC | Mould & Mildew

Consumption Guide

Cartridge size = 310 ml (FS-ONE)

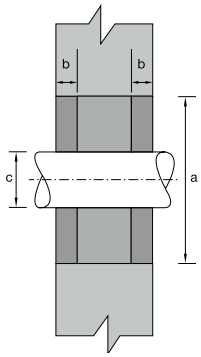
Sealing volume in wall application (installation on both sides)

$$Vs = \frac{\pi}{4} \times (a^2 - c^2) \times 2b$$

Sealing volume in floor application (installation on one side only)

$$Vs = \frac{\pi}{4} \times (a^2 - c^2) \times b$$

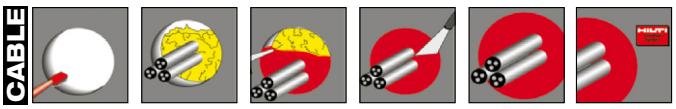
a = hole diameter in cm
b = installation depth in cm (see approvals)
c = outside diameter of pipe or bunched cable diameter in cm



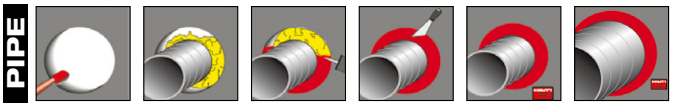
No. of cartridges needed,

$$n = \frac{Vs}{\text{cartridge volume in ml}}$$

Application Procedure



1. Clean opening
2. Pack Mineral wool. (If required)
3. Apply FS-ONE MAX.
4. Smooth FS-ONE MAX.
5. Leave completed seal undisturbed for 48 hours.
6. Fasten identification plate. (If required)



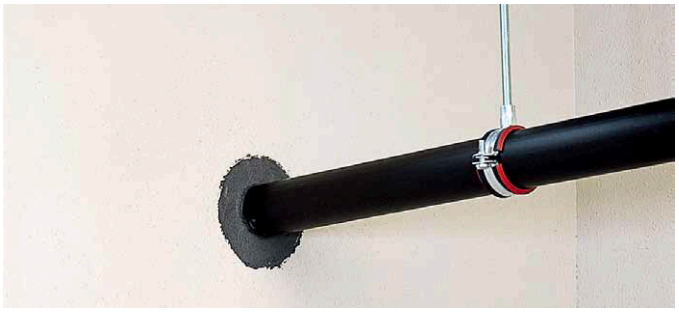
1. Clean opening
2. Pack Mineral wool. (If required)
3. Apply FS-ONE MAX.
4. Smooth FS-ONE MAX.
5. Leave completed seal undisturbed for 48 hours.
6. Fasten identification plate. (If required)

Order Now

Ordering designation	Colour	Volume per unit	Packaging	Sales pack quantity	Item number
FS-ONE MAX 10.1OZ CART	Red	300 ml	Cartridge	1 pc	**2101534**

Please visit Hilti website for the latest item numbers and related products

Firestop intumescent sealant CP 611A



APPLICATIONS

- Single cables and cable bundles
- Plastic pipes up to 50 mm (2") diameter without additional collar
- Sealing penetrations previously sealed with firestop mortar, after installing additional cables
- Small openings

ADVANTAGES

- Paintable
- Fast, easy application and cleaning up
- Particularly suitable for laying new cables
- Silicone-free
- Easy to clean with water

Smoke | Water Tight | Acoustic | Siesmic

Low VOC | Mould & Mildew

Technical data

Chemical basis	Water-based acrylic dispersion
Base materials	Concrete, Concrete block, Metal, Wood, Gypsum
Movement[1)]	No
Expansion ratio (unrestricted, up to)	1:10
Approx. tack-free time (ventilated at 77°F, 80% rel. humidity)	15 min
Approx. curing time[2)]	3 mm/3 days
Application temperature range	5 - 40 °C
Temperature resistance range	-40 - 100 °C
Storage and transportation temperature range	5 - 25 °C
Shelf life[3)]	12 Months

[1)] according to HTC 1250

[2)] at 75°F/24°C, 50% relative humidity

[3)] at 77°F/25°C and 50% relative humidity; from date of manufacture

Consumption Guide

Cartridge size = 310 ml (CP 611A)

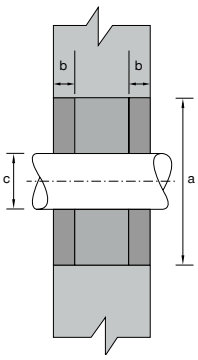
Sealing volume in wall application (installation on both sides)

$$Vs = \frac{\pi}{4} \times (a^2 - c^2) \times 2b$$

Sealing volume in floor application (installation on one side only)

$$Vs = \frac{\pi}{4} \times (a^2 - c^2) \times b$$

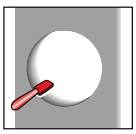
a = hole diameter in cm
b = installation depth in cm (see approvals)
c = outside diameter of pipe or bunched cable diameter in cm



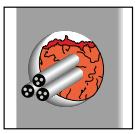
No. of cartridges needed,

$$n = \frac{Vs}{310\ (ml)}$$

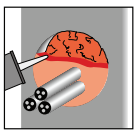
Application Procedure



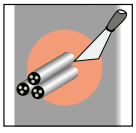
1. Clean opening



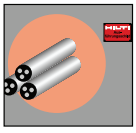
2. Depending on required integrity, pack in mineral wool or foam



3. Apply CP 611A



4. Smooth CP 611A



5. Fasten installation plate in place (if required)

Order Now

Ordering designation	Colour	Volume per unit	Packaging	Sales pack quantity	Item number
CP 611A INT	Anthracite	310 ml	Cartridge	1 pc	**220351**

Please visit Hilti website for the latest item numbers and related products

Accessories for Firestop Sealants

Ordering designation		CP 606	CP 601S	FS-ONE MAX	CP 611A	Sales pack quantity	Item number
Dispenser CFS-DISP 310 ml cartridge dispenser		■	■	■	■	1 pc	**2005843**
Dispenser CS 270-P1 600 ml foil pack dispenser		■	■			1 pc	**24669**

Please visit Hilti website for the latest item numbers and related products

Firestop joint spray CFS-SP WB

APPLICATIONS

- Sealing openings between the top of walls and concrete or metal floors / ceilings
- Sealing building perimeter gaps between floor slabs or vertical wall and exterior curtain wall facades

ADVANTAGES

- Water-based, low VOC, contains no halogens
- High degree of elasticity - movement capability of up to 50%
- Excellent sprayability and low slump characteristics
- Fast, efficient sealing of wide, difficult-to-access joints

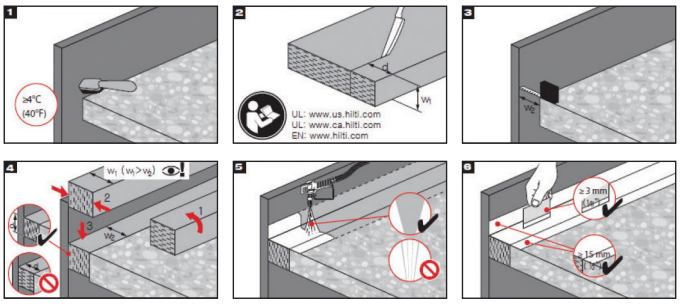
Smoke | Water Tight | Acoustic | Siesmic

Low VOC | Mould & Mildew

Consumption Guide (per 19000 ml bucket)

Joint width (mm)	With overlap 15 mm both sides (mm)	Meters per 19 litres pail (meters)
25	55	110
50	80	75
100	130	45
150	180	35
200	230	25

Application Procedure



Technical data	
Chemical basis	Water-based acrylic dispersion
Base materials	Concrete, Masonry, Gypsum, Steel, Aluminium, Glass
Movement[1)]	Up to 50 %
Approx. tack-free time (ventilated at 77°F, 80% rel. humidity)	180 min
Approx. curing time[2)]	3 mm/day
Average volume shrinkage	0.511
Application temperature range	4 - 40 °C
Temperature resistance range	-40 - 80 °C
Storage and transportation temperature range	4 - 25 °C
Smoke leakage (BS EN 12101-1)	0.5m³/h/m² at 25Pa ambient temperature at both ambient temperature and medium temperature 200°C
Coating thickness	3mm (required wet film thickness) 1.5mm (single dry film thickness)
Surface burning characteristics (ASTM E 84-06)	Flame spread: 5 Smoke development: 10
Sound transmission classification (ASTM E 90-00)	59 db
Content	19 L (25.5kg)
Shelf life after production[3)]	12 months (stored in a dry place)
Mineral wool thickness*	Minimum 100mm

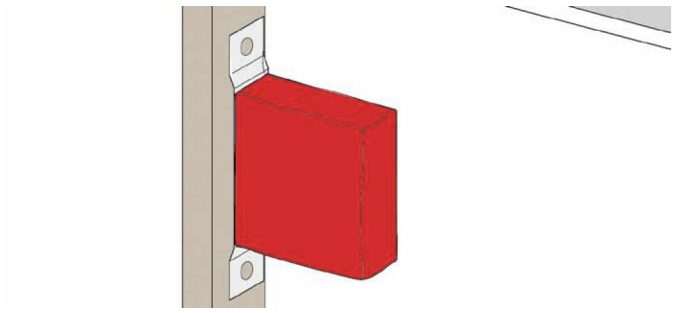
* Please contact Hilti representatives for technical details
[1)] according to HTC 1250
[2)] at 75°F/24°C, 50% relative humidity
[3)] at 77°F/25°C and 50% relative humidity; from date of manufacture

Order Now

Ordering designation	Colour	Volume per unit	Packaging	Sales pack quantity	Item number
CFS-SP WB red	Red	19000 ml	Bucket	1 pc	**430815**

Please visit Hilti website for the latest item numbers and related products

Firestop putty pad CP 617



APPLICATIONS

- Can be used for commercial and residential applications
- Accoustically rated drywall - sound transmission classification 59 according to ASTM E90-97 (based on specific construction)
- General gypsum wall assemblies with wood or metal studs
- Socket Box, lift call button, lift indicator panel

ADVANTAGES

- Excellent adhesion to gypsum, metal and plastic
- No oil migration, putty remains flexible over time
- Pad can be moulded by hand without leaving residue on the hands
- Quick and simple to install
- Not electrically conductive

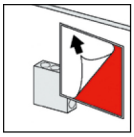
Technical data	
Colour	Red
Electrical resistance data	Non-conductive
Acoustic insulation	Yes
Intumescent	Yes
Application temperature range	0 - 40 °C
Temperature resistance range	-20 - 60 °C
Storage and transportation	-5 - 40 °C
Acoustic index (Tested to DIN EN20140)	64 dB

Acoustic

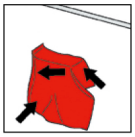
Low VOC

Mould & Mildew

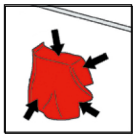
Application Procedure



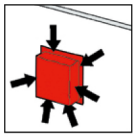
1. Remove label from one side of CP 617



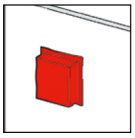
2. Adhere CP 617 to application



3. Reshape CP 617 fit around box



4. Press CP 617 to all sides of application



5. Remove other side of label

Order Now

Ordering designation	Package contents	Sales pack quantity	Item number
CP 617 6"x7"	1x Firestop putty pad CP 617 6"x7"	20 pc	**309760**
CP 617 XL 9"x9"	1x Firestop putty pad CP XL 617 9"x9"	20 pc	**373387**

Please visit Hilti website for the latest item numbers and related products

Firestop cable disc CFS-D 1” NEW

APPLICATIONS

- Pre-formed firestopping solution for single cables and small cable bundles in openings up to max. 25 mm
- All cable types currently and commonly used in building practice in Europe (e.g. power, control, signal, telecommunications, emergency and optical fibre cables)
- For use on drywall, masonry and concrete
- Suitable for plastic and metal conduits
- Covers regular and irregular openings (including blank openings)

ADVANTAGES

- Simple – sealant-free installation
- No backfilling material required
- Fast – installed in 10 seconds
- Powerful – broad application range
- Surface-mounted solution
- Minimises waste

Smoke

Mould & Mildew

Acoustic

Low VOC

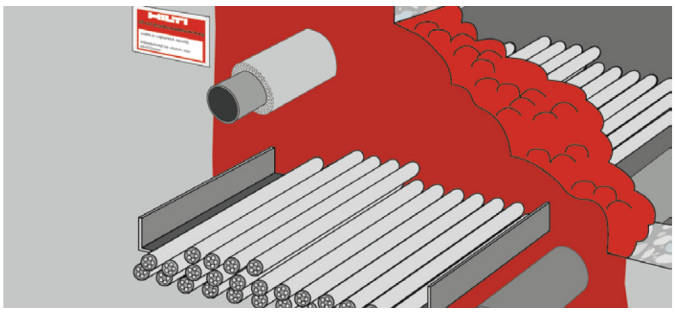
Technical data	
Colour	Red
Base materials	Concrete, Masonry, Drywall
Application temperature range	0 - 40 °C
Acoustics performance	Test report available
Approx. density	1600 kg/m³
Mold and mildew performance	Class 0 (EN ISO 846)
Intumescent	No
Approvals	ETA-16/0050
Can be painted	No
Electrical resistance data	Non-conductive
European VOC	Available
Packaging	Box

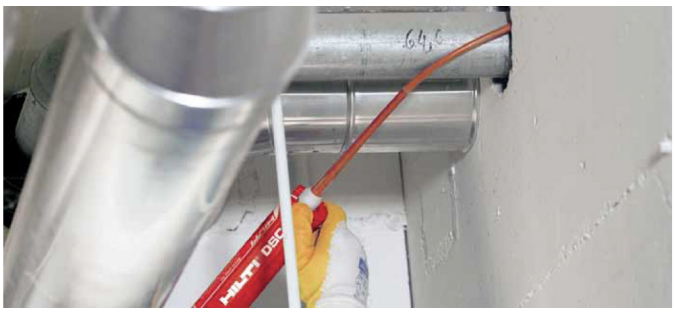
Order Now

Ordering designation	Package contents	Sales pack quantity	Item number
CFS-D 1”	1x Firestop cable disc CFS-D 1”	32 pc	**2116245**

Please visit Hilti website for the latest item numbers and related products

Firestop foam CP 620





APPLICATIONS

- Concrete, drywall and masonry
- Multiple and mixed penetrations
- Single cables, cable bundles and cable trays
- Metal pipes
- Suitable for irregular and difficult-to-reach openings

ADVANTAGES

- Innovative firestopping solution for complex and difficult-toreach applications
- Virtually impervious to smoke
- Excellent water and vapour resistance
- Single-sided installation possible
- Easy to use in openings where access is poor

Smoke | Water Tight | Acoustic | Siesmic

Low VOC | Mould & Mildew

Technical data	
Chemical basis	Two-component polyurethane foam
Colour	Red
Base materials	Concrete, Masonry, Drywall
Volume per unit	300 ml
Foam yield (up to)	1.9 l
Approx. cut time (at 23°C / 50% rel. humidity)	2 min
Application temperature range	0 - 40 °C
Temperature resistance range	-30 - 100 °C
Storage and transportation temperature range	5 - 25 °C
Shelf life[1)]	9 months

[1)] at 77°F/25°C and 50% relative humidity; from date of manufacture

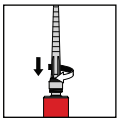
Consumption Guide

Foam installation thickness: 145
No. of CP 620 cartridges

size of opening (mm x mm)	Cable loading (as % of opening size) 0%	10%	30%	60%
50 x 100	1	1	1	1
100 x 100	1	1	1	1
100 x 150	2	2	1	1
100 x 200	2	2	2	1
100 x 250	3	2	2	1
100 x 300	3	3	2	1
200 x 200	4	3	3	2
200 x 225	4	4	3	2
200 x 250	5	4	3	2
200 x 300	5	5	4	2
200 x 350	6	6	4	3
200 x 400	7	6	5	3
300 x 300	8	7	6	3
300 x 330	8	8	6	4
300 x 400	10	9	7	4
400 x 400	13	12	10	6
400 x 500	17	15	12	7

Application Procedure

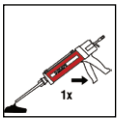
1. Hold the cartridge with the nozzle pointing upwards and unscrew the cap. Do not point towards people.



2. Fit the mixer and screw securely.

3. Release the dispenser and pull back the piston rod.

4. Insert the cartridge in the dispenser.



5. Discard the unevenly mixed initial quantity

6. Apply CP 620, building up a seal by working from the back towards the front.

7. Attach the installation plate (if required).

Order Now

Ordering designation	Volume per unit	Package contents	Sales pack quantity	Item number
CP 620	300 ml	1x Firestop foam CP 620 EN/DE/FR/IT/NL/TH	1 pc	**2025085**

Please visit Hilti website for the latest item numbers and related products

Firestop foam CFS-F FX NEW

APPLICATIONS

- Mechanical: Non-combustible (metal) pipes with mineral wool/ non-flammable insulation, small combustible (plastic) pipes
- No smoke/gastight additional sealing and no backing material required
- Electrical: Single cables, cable bundles, cable tray and trunking

ADVANTAGES

- 3-phase technology with optimum application characteristics (easily-shapeable foam)
- Easily applied using a Hilti cordless electric dispenser
- Neat and tidy application
- Very quick and easy to install and provides a reliable firestop seal with only one product
- Maintenance and retrofitting of cables is very easy
- Reliable sound insulation properties, due to the flexible foam structure

Smoke Acoustic Siesmic Low VOC Mould & Mildew

Consumption Guide

Wall thickness: 150

Surface area of seal (m^2)	Opening diameter of seal (mm)	Opening size of seal (mm x mm)	Volume (litre), no cable laod
0.01	ø 120	100 x 100	1.50
0.02	ø 160	100 x 200	3.00
0.03	ø 200	100 x 300	4.50
0.04	ø 220	200 x 200	6.00
0.05	ø 250	200 x 250	7.50
0.06	ø 280	200 x 300	9.00
0.07	ø 300	200 x 350	10.50
0.08	ø 320	200 x 400	12.00
0.09	ø 340	300 x 300	13.50
0.1	ø 350	300 x 330	14.85
0.16	--	400 x 400	24.00

No. of CFS-F FX foil packs
Wall thickness: 150

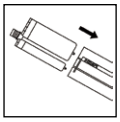
Surface area of seal (m^2)	Cable loading (as % of opening size) 0%	10%	30%	60%
0.01	<1	<1	<1	0.5
0.02	<2	<2	1.5	<1
0.03	<3	<2.5	<2	<1.5
0.04	3.5	<3.5	2.5	1.5
0.05	<4.5	<4	3.0	<2
0.06	5.5	<5	<4	<2.5
0.07	6.0	<5.5	<4.5	<2.5
0.08	<7	<6.5	<5	<3
0.09	<8	<7	<5.5	<3.5
0.1	8.5	7.5	6.0	3.5
0.16	<13.5	<12.5	<9.5	<5.5

Technical data	
Chemical basis	Two-component polyurethane foam
Colour	Red
Base materials	Concrete, Masonry, Drywall
Volume per unit	325 ml
Foam yield (up to)	2.1 l
Approx. cut time (at 23°C / 50% rel. humidity)	10 min
Application temperature range	10 - 35 °C
Temperature resistance range	-30 - 60 °C
Storage and transportation temperature range	5 - 25 °C
Shelf life[1)]	9 Months

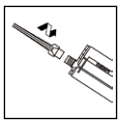
[1)] at 77°F/25°C and 50% relative humidity; from date of manufacture

Application Procedure

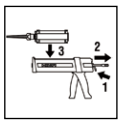
1. Clean the opening to be sealed



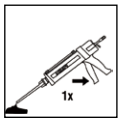
2. Slide the foil pack into the holder



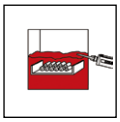
3. Screw the mixing nozzle all the way onto the foil pack and tighten it securely



4. Insert the holder containing the foil pack into the dispenser



5. Discard the unevenly mixed initial quantity



6. Apply the firestop foam in the opening to be sealed

7. Shaped or smoothed by hand (if necessary) after 5mins (approx.) and can be cut after 10mins (approx.)

Order Now Watch Video

Ordering designation	Volume per unit	Package contents	Sales pack quantity	Item number
CFS-F FX	325 ml	1x Firestop foam CFS-F FX	1 pc	**429802**

Please visit Hilti website for the latest item numbers and related products
Customer Hotline: Hong Kong 8228 8118, Macau 00800 8228 8118 Email: hksales@hilti.com

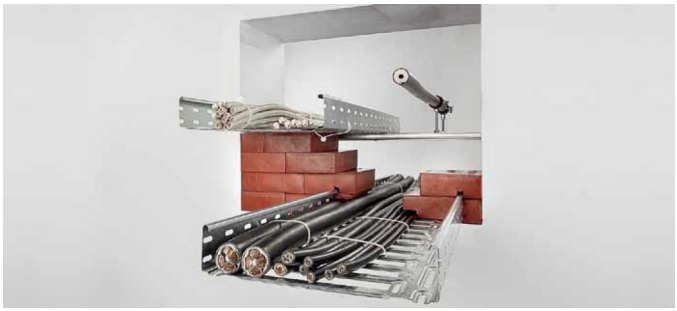
Accessories for Firestop Foams

Ordering designation		CP 620	CFS-F FX	Sales pack quantity	Item number
Extension tube CP 620-EXT		■		12 pc	**338716**[1]
Mixer CP 620-M		■		12 pc	**338718**[1]
Mixer HIT-RE-M			■	1 pc	**337111**
Dispenser DSC		■		1 pc	**338720**
HDE 500-A22			■	1 pc	**2005637**

[1] This is a non-stock item. For detailed lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Firestop block CFS-BL



APPLICATIONS

- Temporary or permanent sealing around cables, cable bundles and cable trays in wall and floor openings
- Cables, cable bundles and cable trays

ADVANTAGES

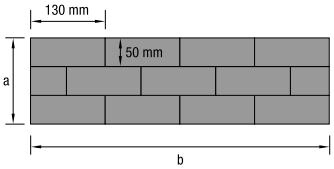
- Easy to install, no electric tools required
- Economical installation as the block is pre-cured and ready-to-use
- Painting of cables with firestop coating is not required
- Installation of cables with zero separation to the edge of the penetration is possible
- Best solution for repenetation

Smoke Acoustic Siesmic Low VOC Mould & Mildew

Technical data	
Chemical basis	PU
Dimensions (LxWxH)	200 x 130 x 50 mm
Expansion temperature (approx.)	200 °C
Expansion ratio (unrestricted, up to)	1:3
Reaction to fire class (EN 13501-1)	E
Application temperature range	5 - 40 °C
Colour	Red
Storage and transportation temperature range	-5 - 40 °C

Consumption Guide

Brick dimension 200 x 130 x 50 mm
a = opening width in cm
b = opening length in cm

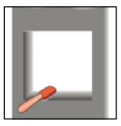


Opening with 30% cross senctional area of services multiply the results by 0.7
Opening with 50% cross senctional area of services, multiply the results by 0.5

Header orientation
Blank opening = $\frac{a \times b}{65}$

e.g. 1 metre by 1 metre opening
Number of bricks required = $\frac{100 \times 100}{65}$ = 154 bricks

Application Procedure

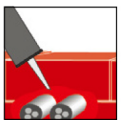


1. Clean opening

2a. Build up blocks

2b. Cut blocks to size for penetration in place

3. Build up blocks



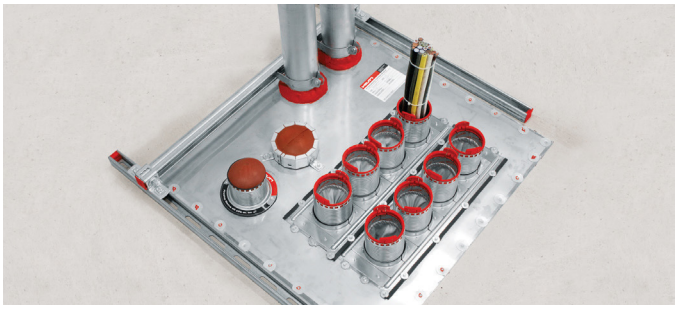
4. Fill gaps with FS-ONE MAX3 / CP 611A

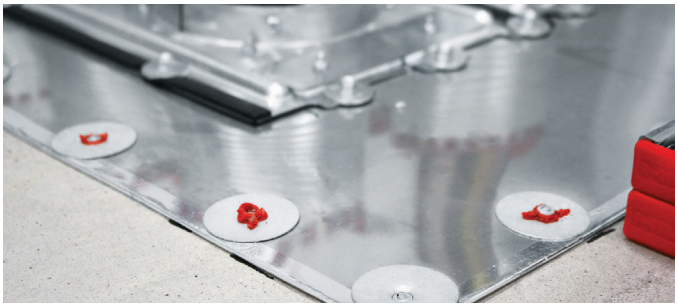
Order Now Watch Video

Ordering designation	Package contents	Sales pack quantity	Item number
CFS-BL	1x Firestop block CFS-BL	1 pc	**2062863**

Please visit Hilti website for the latest item numbers and related products

Firestop composite sheet CFS-COS





APPLICATIONS

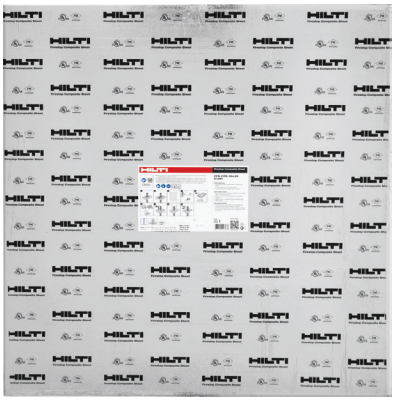
- For use with large wall and floor fire-rated assemblies
- Compatible with Hilti Speed Sleeve and gangplate for floor gang applications
- Intumescent sheet with #304 stainless steel backing for firestopping large openings

ADVANTAGES

- For use with fire-rated assemblies (up to 4 hrs)
- Compatible with Hilti sleeve devices for easy cable management
- Can be fastened using Hilti screw anchor , GX or BX tools – to increase installation efficiency and productivity
- Multi-board systems allow very large openings
- Non-magnetic #304 stainless steel construction ensures good weatherability and no inductive loss in cables
- Fast installation system requires fewer anchors

Technical data	
Application temperature range	-30 to 48°C
Temperature resistance range	-30 to 120°C
Expansion ratio (unrestricted, up to)	1:18
Storage and transportation temperature range	-30 to 48°C
Color	Silver
Dimensions (LxWxH)	910 x 910 x 3.8 mm
Intumescent	Yes

[1] at 77°F/25°C and 50% relative humidity; from date of manufacture



Order Now

Ordering designation	Package contents	Sales pack quantity	Item number
Firestop Composite Sheet CFS-COS	1x CFS-COS Firestop Composite Sheet	4 pc	**2135884**

Please visit Hilti website for the latest item numbers and related products

Firestop mortar CP 636

APPLICATIONS

- Permanent firestopping of cables, cable trays, and non-combustible pipes in medium to large wall and floor openings
- Single, multiple and mixed penetrations
- Medium to large multiple penetrations in concrete and masonry in combination with other products
- Lift door frame

ADVANTAGES

- Excellent application characteristics

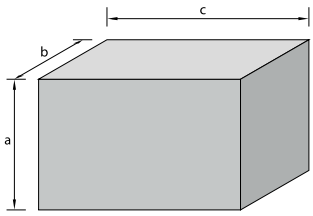
Acoustic | Siesmic | Low VOC | Mould & Mildew

Technical data	
Base materials	Concrete, Masonry
Approx. mix ratio	3:1 (mortar to water by weight)
Working time (approx.)	45 min
Cured density - min.	700 kg/m³
Max. compressive strength after 28 days	2.9 N/mm²
Application temperature range	5 - 80 °C
Temperature resistance range	-10 - 80 °C
Storage and transportation temperature range	5 - 30 °C
Shelf life[1)]	12 Months
Colour	Grey

[1)] at 77°F/25°C and 50% relative humidity; from date of manufacture

Consumption Guide

20 kg bags yield 22.2 litres
a = opening depth in cm
b = opening length in cm
c = opening width in cm



Blank Opening

Number of bags required $= \frac{a \times b \times c}{22{,}000}$

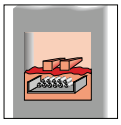
e.g. 100 mm thick floor with 1 metre x 1 metre opening:
Therefore number of bags required = $\frac{10 \times 100 \times 100}{22{,}000}$ = 5 bags

Application Procedure

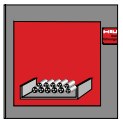
1. Clean opening, moisten surfaces

2. Mix CP 636 mortar with 3:1 ratio (by adding mortar to water)

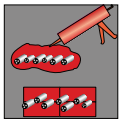
3. Put mortar into place



4. Optional: add CP 651 for future cable changes



5. Fasten installation plate in place (if required)



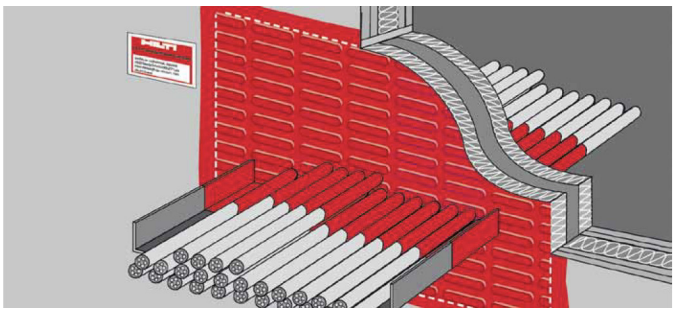
6. Re-installation: lay cables and close remaining opening

Order Now

Ordering designation	Weight	Sales pack quantity	Item number
CP 636 20KG	20 kg	1 pc	**334897**

Please visit Hilti website for the latest item numbers and related products

Firestop board, coating CP 670



APPLICATIONS

- Permanent firestopping of blank openings, cables, cable trays, non-combustible and combustible pipes in medium to large wall and floor openings
- Ideal for large openings

ADVANTAGES

- Solvent- and silicone-free
- Fully functional immediately after installation
- Smoke tight


Smoke

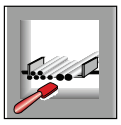

Water Tight

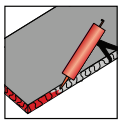

Acoustic

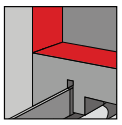

Siesmic

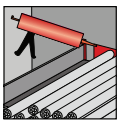

Mould & Mildew

Application Procedure


1. Clean the opening


2. Coat cut edges with CP 606


3. Fit CP 670


4. Fill gaps with CP 606


5. Fasten installation (if required)

Technical data	
Base materials	Drywall, Concrete, Masonry
Approx. density	1470 kg/m³
Application temperature range	5 - 40 °C
Temperature resistance range	-40 - 100 °C
Storage and transportation temperature range	5 - 30 °C
Shelf life[1)]	15 Months
Colour	White

[1)] at 77°F/25°C and 50% relative humidity; from date of manufacture

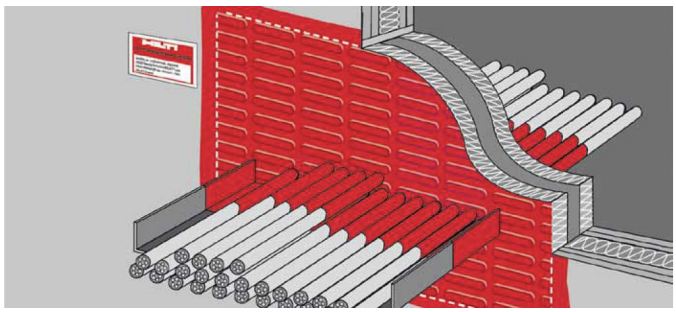
Order Now

Watch Video

Ordering designation	Weight	Sales pack quantity	Item number
ROCK WOOL 1.2X0.6-50/D160	-	5 pc	**3435517**
CP 670 6kg	6 kg		**376023**

Please visit Hilti website for the latest item numbers and related products

Firestop board CP 670



APPLICATIONS

- Permanent firestopping of blank openings, cables, cable trays, non-combustible and combustible pipes in medium-to-large wall and floor openings
- Ideal for large openings

ADVANTAGES

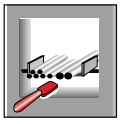
- Board pre-coated for immediate use
- Virtually no cracking or delamination during cutting
- Broad approval range

Technical data	
Base materials	Drywall, Concrete, Masonry
Dimensions (LxWxH)	1200 x 600 x 50 mm
Approx. board density	160 kg/m³
Application temperature range	5 - 40 °C
Temperature resistance range	-40 - 100 °C
Storage and transportation temperature range	0 - 40 °C
Colour	White

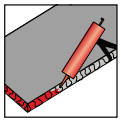
Smoke | Water Tight | Acoustic | Siesmic

Low VOC | Mould & Mildew

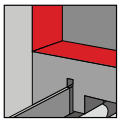
Application Procedure



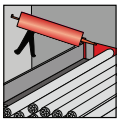
1. Clean the opening



2. Coat cut edges with CP 606



3. Fit CP 670



4. Fill gaps with CP 606

5. Fasten installation (if required)

Order Now

Ordering designation	Dimensions (LxWxH)	Sales pack quantity	Item number
CP 670 1200x600x50 white	1200 x 600 x 50 mm	16 pc	**236673**

Please visit Hilti website for the latest item numbers and related products

Firestop cushion CP 651N

APPLICATIONS

- Temporary sealing of openings in floors and walls through the construction phase

ADVANTAGES

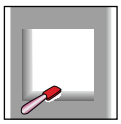
- Quick and easy installation
- No special tools required
- Very economical in use thanks to optimized cushion dimensions
- Re-usable and thus economical
- Fully functional immediately after installation
- Tear-resistant and dust-free installation

Acoustic

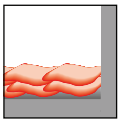
Mould & Mildew

Technical data	
Base materials	Drywall, Concrete, Masonry
Approx. density	350 kg/m³
Application temperature range	-30 - 35 °C
Temperature resistance range	-40 - 120 °C
Storage and transportation temperature range	-30 - 40 °C
Colour	White

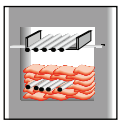
Application Procedure



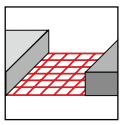
1. Clean opening



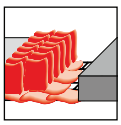
2. Cushion arrangement without cables in wall



3. Cushion arrangement with cables in wall



4. Fasten wire mesh in place when closing floor openings with cushions



5. Cushion arrangement in floor

6. Fasten installation plate in place (If required)

Order Now

Ordering designation	Dimensions (LxWxH)	Sales pack quantity	Item number
CP 651N-S	300 x 40 x 30 mm	30 pc	**382624**[1)]
CP 651N-M	300 x 80 x 30 mm	15 pc	**382625**[1)]
CP 651N-L	300 x 170 x 30 mm	6 pc	**382626**[1)]

[1)] This is a non-stock item. For detailed lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Firestop bandage CFS-B

APPLICATIONS

- Firestopping around insulated (hot/cold) non-flammable pipes
- Pipe materials: copper, steel and other metals with heat conductivity lower than that of copper (e.g.cast iron, stainless steel etc.)
- Various insulation materials
- Suitable for use in openings in concrete, masonry block or drywall

ADVANTAGES

- Highly versatile - one product for a variety of insulation materials, pipe materials and pipe diameters
- Quick and easy to install - no drilling or additional tools needed
- No need to interrupt the pipe insulation material within the wall/ floor penetration
- Minimal thickness for easy installation in narrow gaps
- Good elasticity for optimum flexibility
- Very good acoustic insulation properties

Smoke Siesmic Low VOC Mould & Mildew

Technical data	
Base materials	Concrete, Masonry, Drywall
Expansion temperature (approx.)	210 °C
Expansion ratio (unrestricted, up to)	1:14
Storage and transportation temperature range	-5 - 50 °C
Length	10 m
Colour	Grey
Thickness	2 mm
Width	125 mm

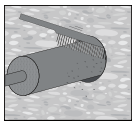
Application table

CFS-B (Firestop Bandage - 2 mm thick)

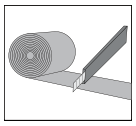
Pipe diameter (mm)	Insulation Thickness (mm)	No. Layers	Reference Wrap length (mm)	No. of penetrations with a 10m roll	Recommened drill hole X (mm)
25	40	2	720	14	121
32	40	2	770	13	128
40	40	2	820	12	136
50	40	2	880	11	146
65	50	2	1100	9	181
80	50	2	1190	8	196
100	50	2	1320	8	216
125	50	2	1480	7	241
150	50	2	1630	6	266
200	50	3	2920	3	319
250	50	3	3390	3	369
300	65	3	4150	2	449
400	65	3	5090	2	549
400	75	3	5280	1.9	569

* Please consult Hilti representatives for application detail of different type of piping units

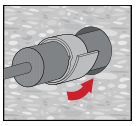
Application Procedure



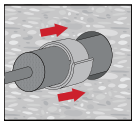
1. Clean the opening. The material around the opening must be dry, in sound condition and free from dust or grease.



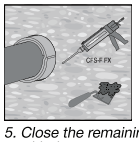
2. Cut Hilti Firestop Bandage CFS-B to fit the outside diameter of the insulation. Ensure 2 layers and an overlap.



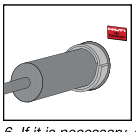
3. Wrap Hilti Firestop Bandage CFS-B around the insulation. Secure the bandage with steel bands or wire (≥ 0.7 mm).



4. Install Hilti Firestop Bandage CFS-B on both sides of the open-ing to a depth of 62.5 mm (see marking on bandage).



5. Close the remaining gap with the recommend gap filler. Refer to each base material for the correct filler.



6. If it is necessary, an additional insulation over the bandage has to be installed. Mount the installation identification plate beside the correctly sealed opening, if required.

Order Now

Ordering designation	Sales pack quantity	Item number
CFS-B	1 pc	**429557**

Please visit Hilti website for the latest item numbers and related products

Firestop collar CP 643 N

APPLICATIONS

- Plastic pipes with diameters from 20 - 160 mm
- Suitable for PVC, PE and HDPE pipes
- For use in walls and floors
- Waste water pipes, fresh water pipes, drinking water pipes

ADVANTAGES

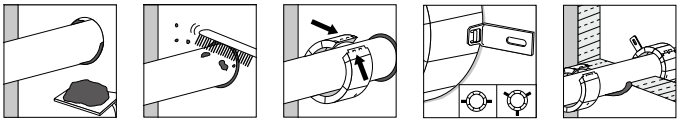
- Latch mechanism for quick and easy closure
- Allows correct installation where space is tight
- Flexible tab positioning for convenient fastening
- Ready-to-use product

Siesmic Low VOC Mould & Mildew

Technical data

Base materials	Concrete, Masonry, Drywall
Expansion temperature (approx.)	250 °C
Expansion ratio (unrestricted, up to)	1:17
Storage and transportation temperature range	-5 - 50 °C

Application Procedure



1. Close remaining gap by mortar or by CP606 for smoke and acoustic seal

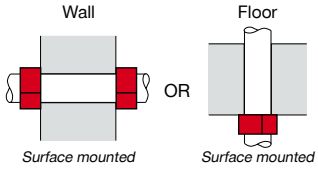
2. Clean plastic pipe

3. Close jacket

4. Attach fastening hooks

5. Repeat the same jacket installation procedure for the other side of the wall

Fixing Method



Surface mounted *Surface mounted*

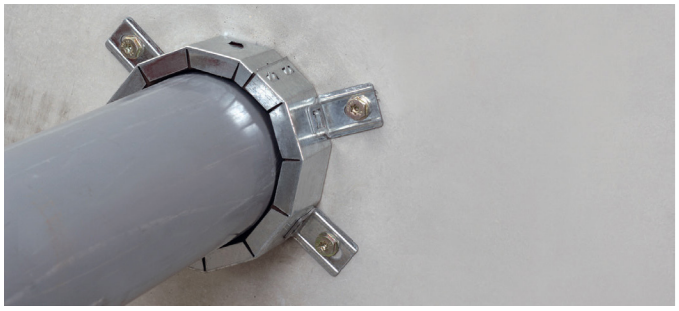
Order Now

Ordering designation	Pipe diameter - range	Collar outside diameter	Package contents	Sales pack quantity	Item number
CP643 1.5”/50 N (A2 SS) + HSA-R M6 5/-/-	20- 51 mm	67 mm	2x Std stud anchor HSA-R M6x50 5/-/-, 1x Firestop Jacket CP 643-50/1.5”N (A2 S.S)	1 pc	**3503533**
CP643 2”/63 N (A2 SS) + HSA-R M6 5/-/-	52 - 64 mm	82 mm	2x Std stud anchor HSA-R M6x50 5/-/-, 1x Firestop jacket CP 643-63/2” N (A2 S.S)	1 pc	**3503534**
CP643 2.5”/75 N (A2 SS) + HSA-R M6 5/-/-	65 - 78 mm	102 mm	3x Std stud anchor HSA-R M6x50 5/-/-, 1x Firestop jacket CP 643-72/2.5’ N (A2 S.S	1 pc	**3503535**
CP643 3”/90 N (A2 SS) + HSA-R M6 5/-/-	79 - 91 mm	117 mm	3x Std stud anchor HSA-R M6x50 5/-/-, 1x Firestop jacket CP 643-90/3” N (A2 S.S)	1 pc	**3503536**
CP643 4”/110 N (A2 SS) + HSA-R M6 5/-/-	92 - 115 mm	146 mm	3x Std stud anchor HSA-R M6x50 5/-/-, 1x Firestop jacket CP 643-110/4” N (A2 S.S)	1 pc	**3503538**
CP643 5”/125 N (A2 SS) + HSA-R M6 5/-/-	116 - 125 mm	166 mm	4x Std stud anchor HSA-R M6x50 5/-/-, 1x Firestop jacket CP 643-125/5” N (A2 S.S)	1 pc	**3503539**
CP643 6”/160 N (A2 SS) + HSA-R M6 5/-/-	126 - 170 mm	236 mm	4x Std stud anchor HSA-R M6x50 5/-/-, 1x Firestop jacket CP 643-160/6” N (A2 S.S)	1 pc	**3503540**

Ordering designation	Pipe diameter - range	Collar outside diameter	Sales pack quantity	Item number
Firestop Jacket CP 643-50/1.5”N (A2 S.S)	20- 51 mm	67 mm	1 pc	**3447172**
Firestop jacket CP 643-63/2” N (A2 S.S)	52 - 64 mm	82 mm	1 pc	**3447193**
Firestop jacket CP 643-72/2.5’ N (A2 S.S)	65 - 78 mm	102 mm	1 pc	**3447194**
Firestop jacket CP 643-90/3” N (A2 S.S)	79 - 91 mm	117 mm	1 pc	**3447195**
Firestop jacket CP 643-110/4” N (A2 S.S)	92 - 115 mm	146 mm	1 pc	**3447196**
Firestop jacket CP 643-125/5” N (A2 S.S)	116 - 125 mm	166 mm	1 pc	**3447197**
Firestop jacket CP 643-160/6” N (A2 S.S)	126 - 170 mm	236 mm	1 pc	**3447198**
CP 643-50/1.5” N	32 - 51 mm	67 mm	1 pc	**304325**
CP 643-63/2” N	52 - 64 mm	82 mm	1 pc	**304326**
CP 643-75/2.5” N	65 - 78 mm	102 mm	1 pc	**304327**
CP 643-90/3” N	79 - 91 mm	117 mm	1 pc	**304328**
CP 643-110/4” N	92 - 115 mm	146 mm	1 pc	**304329**
CP 643-125/5” N	116 - 125 mm	166 mm	1 pc	**304330**
CP 643-160/6” N	126 - 170 mm	236 mm	1 pc	**304331**

Please visit Hilti website for the latest item numbers and related products

Firestop collar CP 644



APPLICATIONS

- Sealing flammable pipes from 180 mm to 250 mm in diameter in penetrations through fire compartment walls and floors

ADVANTAGES

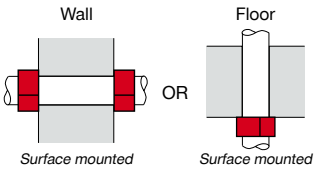
- Ready-to-use firestop collar with a galvanized steel housing
- Latch mechanism for quick and easy closure
- Flexible hook positioning for convenient fastening

Technical data	
Base materials	Concrete, Masonry, Drywall
Expansion temperature (approx.)	210 °C
Expansion ratio (unrestricted, up to)	1:17
Storage and transportation temperature range	-5 - 50 °C
Colour	Metallic grey

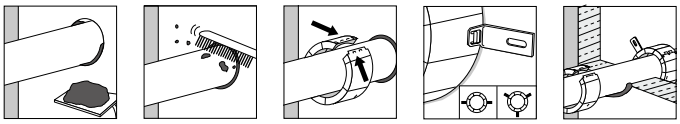
 Siesmic

 Mould & Mildew

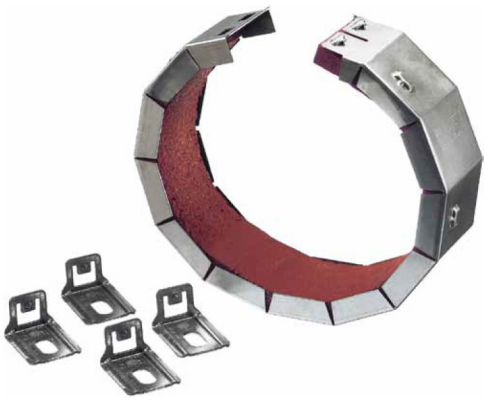
Fixing Method



Application Procedure



1. Close remaining gap by mortar or by CP606 for smoke and acoustic seal
2. Clean plastic pipe
3. Close jacket
4. Attach fastening hooks
5. Repeat the same jacket installation procedure for the other side of the wall



Order Now

Ordering designation	Collar outer diameter	Sales pack quantity	Item number
CP 644-180/7”	228 mm	1 pc	**304339**[1)]
CP 644-200/8”	257 mm	1 pc	**304340**[1)]
CP 644-225/9”	289 mm	1 pc	**304342**[1)]
CP 644-250/10”	319 mm	1 pc	**304343**[1)]
CP 644-250/10” US	319 mm	1 pc	**304344**[1)]

[1)] This is a non-stock item. For detailed lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Firestop collar endless CFS-C EL NEW

APPLICATIONS

- Suitable for use on shaft walls, coated board, drywall, aerated concrete, masonry and concrete
- Zero distance required to CFS-B firestop bandage, CFS-C EL firestop endless collar and Conlit
- Approved for use with PVC, PP, PE and a wide array of standard acoustic pipes.
- Configurations tested include pipe elbows, inclined pipes and pipes with limited clearance to the wall
- Acoustic pipes tested with insulation and sound decoupling

ADVANTAGES

- Flexible solution for waste water, roof drainage and pneumatic pipes
- Problem solver for non-standard applications
- Endless solution: one product for all applications
- Well-suited to complex pipe configurations
- Easy installation

Acoustic Mildew

Technical data	
Base materials	Drywall, Aerated concrete, Concrete, Masonry
Expansion temperature (approx.)	210 °C
Expansion ratio (unrestricted, up to)	1:19
Storage and transportation temperature range	-30 - 50 °C
Length	3 m

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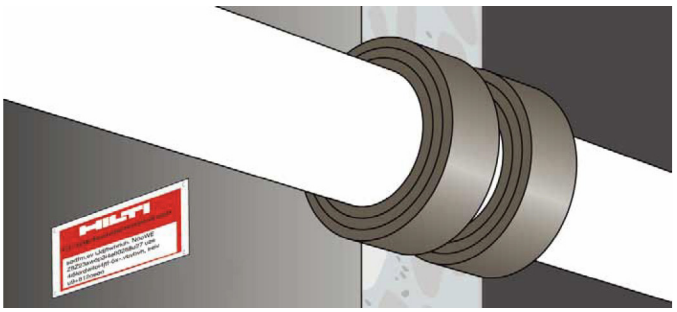
Ordering designation	Pipe diameter - range	Package contents	Sales pack quantity	Item number
CFS-C EL	16 -160 mm	1x Firestop bandage CFS-C EL, 18x Closure plate CFS-C EL, 22x Hook CFS-C EL short	1 pc	**2075120**

Please visit Hilti website for the latest item numbers and related products

Firestop wrap strip CP 648-E



APPLICATIONS

- Combustible pipe penetrations

ADVANTAGES

- Quick and easy closure without tools
- Easy to cut
- Fast installation
- Highest flexibility

Acoustic | Siesmic | Low VOC | Mould & Mildew

Technical data	
Base materials	Concrete, Masonry, Drywall
Expansion temperature (approx.)	210 °C
Expansion ratio (unrestricted, up to)	1:19
Storage and transportation temperature range	-5 - 50 °C
Length	10 m
Colour	Grey, printed foil
Dimensions (LxWxH)	10000 x 45 x 5 mm

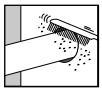
Application table

CP 648-E (Firestop Endless Wrap - 4.5 mm thick)

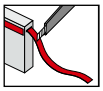
Pipe dimension (mm)	No. layers	Reference wrap length (cm)^^	No. of penetrations with a 10 m roll	Recommended drill hole X (mm)
20	1	7	142	37^
50	1	17	58	67^
63	1	21	47	77^
75	1	25	40	92^
90	2	64	15	112^
110	2	75.5	13	132^
125	2	85.5	11	152^
160	3	166	6	202^

^ or bigger ^^ The wrap lenght should

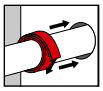
Application Procedure



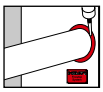
1. Clean the plastic pipe.



2. Cut CP 648-E to the correct length (see measurement table on product packaging for help).

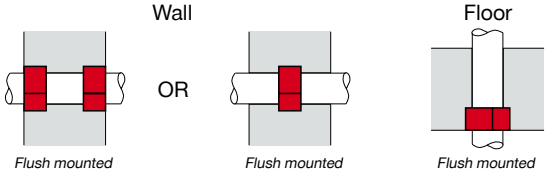


3. Wrap the CP 648-E around the pipe, fasten it with adhesive tape and push it into the annular space



4. Close remaining gap to ensure smoke and gas tight seal. Fasten installation plate if required.

Fixing Method



Flush mounted | Flush mounted | Flush mounted

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Ordering designation	Sales pack quantity	Item number
CP 648-E-W45/1.8”	1 pc	**304310**

Please visit Hilti website for the latest item numbers and related products

Firestop sleeve CFS-SL GA NEW

APPLICATIONS

- Sealing penetrations with single cables and cable bundles
- Suitable for small to medium-sized circular openings in walls, ceilings and floors
- For use on concrete, masonry and drywall

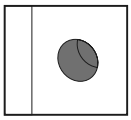
ADVANTAGES

- Quick and easy to install and inspect
- Fully functional immediately after installation
- Robust
- Optimum smoke-restriction performance
- Easy maintenance and retro-fitting of cables

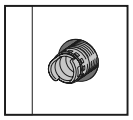
Technical data	
Base materials	Concrete, Masonry, Drywall
Expansion temperature (approx.)	160 °C
Intumescent	Yes
Storage and transportation temperature range	-5 - 50 °C
Application temperature range	-5 - 50 °C
Temperature resistance range	-30 - 100 °C
Approvals	FM, UL, BS, EN
Reusable (and removable)	Possible
Acoustics performance	Test report available

Acoustic Siesmic Low VOC Mould & Mildew

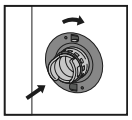
Application Procedure



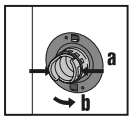
1a. For a 2" sleeve: use a 2.5" hole saw to create a hole.
1b. For a 4" sleeve: use a 4.5" hole saw to create a hole.



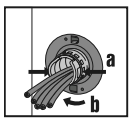
2. Insert the sleeve.



3. Insert and spin the flange clockwise onto the device until you reach the wall. Repeat on other side of the wall.



4. To open the device: (a) On one side of the wall, press the clip closures inward. (b) Twist the device counterclockwise.



5. To close the device: (a) On the same side of the wall, press the clip closure inward. (b) Twist the device clockwise intil finger-tight, allowing it to engage with a click.

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Ordering designation	Outside diameter	Recommended opening size	Wall/Floor thickness	Sales pack quantity	Item number
CFS-SL GA Small	63 mm	66-73 mm	100-200 mm	1 pc	**2178492**
CFS-SL GA Medium	110 mm	113-122 mm	100-200 mm	1 pc	**2178493**
CFS-SL GA Long	110 mm	113-122 mm	200-300 mm	1 pc	**2178494**

Please visit Hilti website for the latest item numbers and related products

Firestop cast-in device CFS-CID NEW

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
- Quick and simple installation
- Integrated moisture and smoke seal
- Lid strong enough to carry foot traffic and light access equipment

Smoke

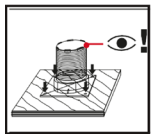
Mould & Mildew

Acoustic

Low VOC

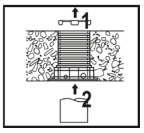
Technical data	
Base materials	Concrete
Approvals	EN 13501-2: 2007+A1:2009, EN 1366-3:2009
Height	250 mm
Application temperature range	-5 - 50 °C
Temperature resistance range	-20 - 100 °C
Color	Red
Re-penetration	Easy
Reaction to fire class (EN 13501-1)	E

Application Procedure



1. Place anchor channel into formwork and fixing to the wood formwork with nails and stamples / fixing to the steel formwork with rivets. Ensure cover is tightened to prevent concrete from going in

2. Cast in concrete. Concrete level should be equal or lower than overall height of cast-in device



3. Remove the cast-in device cover. Insert penpetrating pipe into cast-in device.

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Ordering designation	Outside diameter	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**

Please visit Hilti website for the latest item numbers and related products

Firestop cable coating CP 678

APPLICATIONS

- Protection of cables and bunched cables on cable trays in indoor installations
- Meets IEC 60332-3-22 Category A standard for reduced spread of flame
- Factory Mutual Approved (fire retardant coating of electrical cables)
- For use in power plants, telecommunications complexes, industrial plants, petrochemical plants, paper mills, factories and production facilities
- Easy to apply using a paint brush or airless spray gun

Technical data	
Chemical basis	Acrylate
Weight	20 kg
Application temperature range	5 - 40 °C
Temperature resistance range	-30 - 80 °C
Storage and transportation temperature range	5 - 30 °C
Shelf life[1)]	18 Months
Colour	White

[1)] at 77°F/25°C and 50% relative humidity; from date of manufacture

ADVANTAGES

- Intumescent
- Water soluble, odourless and solvent free
- Free of fibres and asbestos
- No derating effects on cables
- Rapid drying, remains flexible when dry
- Compatible with the sheathing of electrical cables

Siesmic Low VOC Mould & Mildew

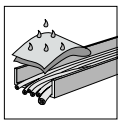
Consumption Guide

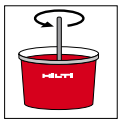
Test Standard	Dry film thickness	Wet film thickness	Approx. Requirement
IEC 60332-3	1.0 mm coating	1.4 mm coating	1.8 kg/m² (1.4 liters/m²)
Factory Mutual Approval	1.6 mm coating	2.2 mm coating	2.86 kg/m² (2.2 liters/m²)

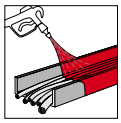
Note (a): Each 20 kilogram container of CP 678 contains approximately 15.4 liters.

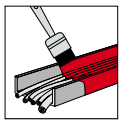
Note (b): For cable trays or cable bundles with large cables, allow approx. 10% wastage for application by brush or roller. For cable trays or cable bundles with small cables, allow approx. 20% wastage for application by brush or roller.

Application Procedure


Clean cables


Mix coating




Apply coating

Order Now

Ordering designation	Weight	Package contents	Sales pack quantity	Item number
CP 678 20KG	20 kg	1x Firestop cable coaing CP 678	1 pc	**2348155**

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