

## CP 648-E intumescent endless pipe wrap

### Product description

An innovative and highly flexible endless wrap, for sealing flammable plastic pipes, suitable for heavy users. Tested to BS476 Part 20 for fire resistance of up to 4 hours.

### Areas of application

- Sealing flammable plastic pipes from 50-160mm with high and low wall thickness
- Pipes include: UPVC
- ABS pipes
- PP pipes
- PE pipes

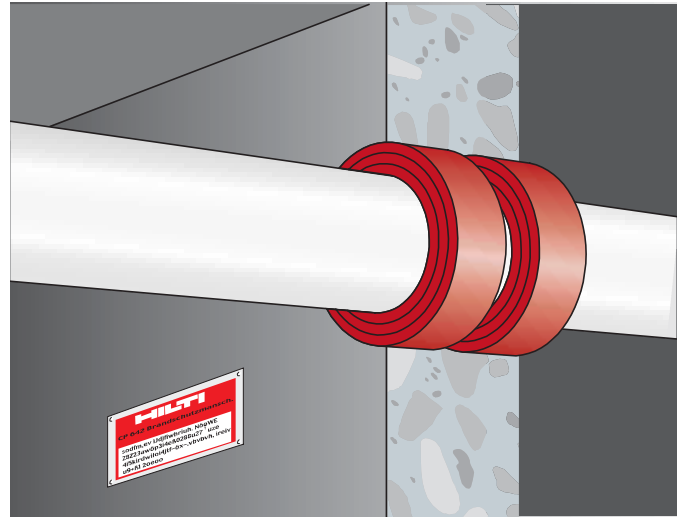
### Product features

- 10 metre roll suitable for many applications
- No material waste as cut ends can be used
- Special elastic material for good pliability
- Halogen and plasticizer free
- Water resistant
- Minimum thickness for smallest annular space required
- High performance fire expansion rate (40 : 1)

### Base materials

Concrete : Masonry  
 Porous concrete : Drywall

Wall from 100mm thick  
 Floors from 150mm thick



### System advantages/customer benefits

- 10 m / 33 ft roll for highest flexibility
- One product for all plastic pipes up to 6"
- No tools required, no drilling
- Fast installation
- Easy to cut and measure
- Extremely small wrap thickness

### Approvals Internationally tested and approved

**British Standard**  
**BS 476**

### Recommendations for use

- Wall - two wraps in each side.
- Floor - one wrap on the underside.

### Storage

- Store only in the original packaging in a location protected from moisture at a temperature of 5°C to 25°C.
- Observe expiry date on packaging.

## CP 648-E intumescent endless pipe wrap

	Quantity	Ordering designation	Item no.
Firestop Endless Wrap	1	CP 648-E-W45/1.8"	286083

Included in an innovative packaging, easy to measure, easy to cut, easy to handle



## CP 648-E intumescent endless pipe wrap

### Technical data

Chemical basis:	Acrylic polymer
Density:	1.35 g/cm <sup>3</sup>
Storage Temperature:	- 5 to + 30° C
Application temperature	- 5 to + 40° C
Temperature resistance:	-20 to +100° C
Expansion in the case of fire:	above 160° C
Expansion rate:	1:40
Construction material class:	B2 (DIN 4102)
Durability:	> 30 a
Acoustic test:	According to DIN EN 2014010; ISO 14010; DIN 52210

### Application table

Pipe dimension (mm)	No. Layers	Wrap length (cm)	Applications with a 10 m roll (No.)	Recommended drill hole Ø (mm)
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

### Penetration

- Drill through the wall/floor using Hilti diamond drilling equipment and a core bit of suitable size
- Install the plastic pipe

### Installation

#### 1. Clean the plastic pipe

Expansion of the intumescent material during a fire closes the plastic pipe. Very dirty pipes with, for example, remains of mortar, may lead to a delay in this closing action. Badly soiled plastic pipes should, therefore, be cleaned in the area where the CP 648-E is to be installed.

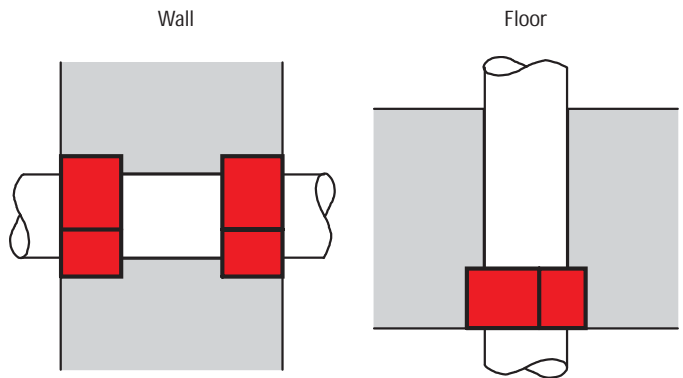
#### 2. Cut Wrap to required length

First check the annular space, then cut CP 648-E to length according to the outer diameter of the pipe to be installed, taking the required number of layers into consideration. See the measurement table printed in this data sheet or on the product packaging for guidance.

#### 3. Install Wrap

Wrap the CP 648-E around the pipe and secure it with a short strip of adhesive tape.

### Dimensions



	Wall	Floor
Pipe diameter	Drywall	Cellular concrete, concrete, masonry
50–110 mm	100	100
125–160 mm	—	100/150*
CP 648-E	One Wrap strip on each side (with required number of layers)	One Wrap strip on underside (with required number of layers)

\*Exact dimensions depending on national approvals

Push CP 648-E wrap strip into the annular space until flush with the wall. Do not install CP 648-E in the centre of a wall/floor or using single layers one behind the other: The intumescent reaction will begin too late in case of fire.

#### 4. Seal against smoke and gas

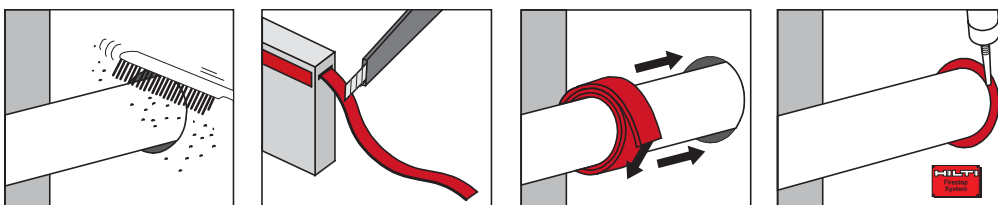
Seal the remaining gap with Firestop sealant (e.g. CP 606). Larger annular spaces should be sealed with mortar (e.g. CP 636). In drywall, sealing of the remaining gap also possible with gypsum.

#### Notice about approvals

- CP 648-E is internationally tested and approved.
- When making a pipe seal using Hilti CP 648-E, national approvals must be observed in principle. Please refer to these for restrictions regarding opening size, type and wall/floor thickness, maximum pipe diameter etc.
- For maintenance reasons, a penetration seal can be marked permanently using an installation plate.

#### Safety precautions

- Please refer to MSDS data sheet available as a download from the Technical Library on the Hilti web site at [www.hilti.co.uk](http://www.hilti.co.uk)



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.

The above applications are not exhaustive. For further details please use any of the contacts listed below.