

**Hilti Firestop  
Wrap strip  
CP 648-E  
CP 648-S**

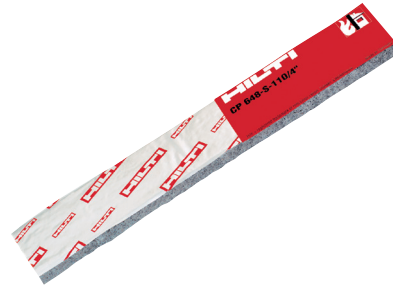
Firestop Solution  
in accordance with  
AS/NZ 1530.4 & 4072.1

FCO-2300  
FCO-2301



## Firestop wrap strip CP 648-S

Firestopping for flammable pipes from 32 mm up to 150 mm in diameter with pre-cut wraps strips.



### Applications

- Sealing flammable pipes from 32 mm to 80 mm in diameter in penetrations through fire compartment walls
- Sealing flammable pipes from 32 mm to 150 mm in diameter in penetrations through fire compartment floors
- Pipe materials: PVC
- Suitable for use in openings in concrete, aerated concrete, masonry and drywall
- Different backfilling and sealing materials are covered

### Advantages

- Quick and easy closure without tools
- Ready-to-use pre-measured wrap strips for quick installation
- Sound decoupling strip based on PE (foam) can be used
- Ideal for very tight installations

Test certificates and further information can be obtained via your local Hilti contact.

### Ordering

Product description	To suit nominal PVC diameter	Recommended opening size	Dimensions (LxWxH)	Minimum order quantity	Item Number
<b>Firestop wrap strip CP 648-S-50/1.5"</b>	32, 40 mm	52, 62 mm	169 x 45 x 4.5 mm	2 pc	00304296
<b>Firestop wrap strip CP 648-S-63/2"</b>	50 mm	72 mm	169 x 45 x 4.5 mm	2 pc	00304297
<b>Firestop wrap strip CP 648-S-75/2.5"</b>	65 mm	92 mm	249 x 45 x 4.5 mm	2 pc	00304298
<b>Firestop wrap strip CP 648-S-90/3"</b>	80 mm	107 mm	311 x 45 x 9 mm	2 pc	00304299
<b>Firestop wrap strip CP 648-S-110/4"</b>	100 mm	132 mm	169 x 45 x 4.5 mm	2 pc	00304300
<b>Firestop wrap strip CP 648-S-160/6"</b>	150 mm	202 mm	543 x 45 x 13.5 mm	2 pc	00304302

### Technical data

CP 648-S	
<b>Storage and transportation temperature - range</b>	-5 °C - 50 °C
<b>Expansion temperature</b>	> 180 °C
<b>Expansion ratio</b>	1:15 load expansion, load = 5g/cm <sup>3</sup>
<b>Compatibility other Hilti Firestop Products</b>	Hilti Firestop Acrylic Sealant CP 606

## Firestop wrap strip CP 648-E

Firestopping for flammable pipes from 32 mm up to 150 mm with endless wraps strip.



### Applications

- Sealing flammable pipes from 32 mm to 80 mm in diameter in penetrations through fire compartment walls
- Sealing flammable pipes from 32 mm to 150 mm in diameter in penetrations through fire compartment floors
- Pipe materials: PVC
- Suitable for use in openings in concrete, aerated concrete, masonry and drywall
- Different backfilling and sealing materials are covered

### Advantages

- Quick and easy closure without tools
- Highest flexibility - one product for PVC pipe diameters from 32 mm to 150 mm
- Sound decoupling strip based on PE (foam) can be used
- Ideal for very tight installations

Test certificates and further information can be obtained via your local Hilti contact.

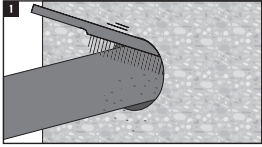
### Ordering

Product description	PVC pipe diameter range	Minimum order quantity	Item Number
<b>Firestop wrap strip CP 648-E-W45/1.8"</b>	32 - 150 mm	1 pc	<b>00304310</b>

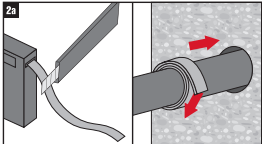
### Technical data

CP 648-E	
<b>Storage and transportation temperature - range</b>	-5 °C - 50 °C
<b>Expansion temperature</b>	> 180 °C
<b>Expansion ratio</b>	1:15 load expansion, load = 5g/cm <sup>3</sup>
<b>Compatibility other Hilti Firestop Products</b>	Hilti Firestop Acrylic Sealant CP 606

## Installation instructions



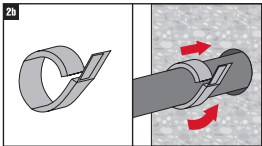
Clean the plastic pipe in the area where the Hilti Firestop Wrap CP 648 is to be installed.



### Installation of the wrap

#### a) Hilti Firestop Wrap CP 648-S:

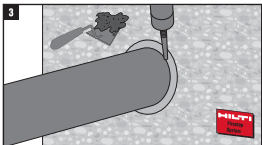
Use the Hilti Firestop Wrap CP 648-S corresponding to the diameter of the pipe. Wrap the Hilti Firestop Wrap CP 648-S around the pipe and fasten its end to each other tightly using the integrated adhesive strip. Push the Hilti Firestop Wrap CP 648 into the annular gap until its outer edge is flush with the surface of the wall or floor.



#### b) Hilti Firestop Wrap CP 648-E:

Cut the Hilti Firestop Wrap CP 648-E to length according to the outer diameter of the pipe, taking the required number of layers into consideration. If sound decoupling means are installed around the pipe this has to be considered when cutting the wrap to length. Wrap the Hilti Firestop Wrap CP 648-E around the pipe and secure it with a short strip of adhesive tape. Push the Hilti Firestop Wrap CP 648 into the annular gap until its outer edge is flush with the surface of the wall or floor.

Do not install Hilti Firestop Wrap CP 648 in the centre of the wall/floor or using single layers of CP 648-E one behind the other.



Seal the remaining gap with Hilti Firestop Acrylic Sealant CP 606 or a cementitious mortar.

## Plastic pipe penetration

### Rigid wall

The intended use of the Hilti Firestop Wrap CP 648-S and CP 648-E is to reinstate the fire resistance of:  
Rigid walls (E) consisting of concrete, aerated concrete or masonry and a minimum thickness of 115 mm ( $t_E$ ).

Penetration seal (A) / services (C)		Classification FRL	Classification FRL
PVC pipes			
Pipe diameter ( $d_C$ ) mm	Pipe wall thickness ( $t_C$ ) mm	Wall thickness ( $t_E$ ) $\geq$ 115 mm	No of layers required for CP 648-E
32	1.9	-/120/120	1 layer
40	2.0	-/120/120	
50	2.2	-/120/90	
65	2.7	-/90/90	
80	2.9	-/120/120	2 layers

## Plastic pipe penetration

### Floor

The intended use of the Hilti Firestop Wrap CP 648-S and CP 648-E is to reinstate the fire resistance of:  
Rigid floors (E) consisting of concrete with a minimum thickness 150 mm ( $t_E$ ).

Penetration seal (A) / services (C)		Classification FRL	Classification FRL
PVC pipes			
Pipe diameter ( $d_p$ ) mm	Pipe wall thickness ( $t_p$ ) mm	Concrete floor thickness ( $t_E$ ) $\geq$ 150 mm	No of layers required for CP 648-E
32	1.9	-/240/240	1 layer
40	2.0		
50	2.2		
65	2.7		
80	2.9	-/240/240	2 layers
100	3.2	-/120/120	
100**	3.2	-/120/120	
150	4.5	-/90/90	3 layers

\*\* PVC Sandwich type construction

## Characteristics of CP 648

### Additional Attributes

Hilti firestop products are comprehensively tested and individually matched to the technical requirements of a building's mechanical installations.

In addition to their superior passive fire protection behavior, Hilti firestop products also meet increasingly significant requirements in building technology and also help designers and installers to meet these additional requirements. The assessment of fitness for use has been made in accordance with EOTA ETAG N° 026 – Part 2.



Charecteristics	Assessment of charecteristics	Norm, standard, test
<b>Durability and serviceability</b>	Use category Y <sub>2,(-20/+70)°C</sub> Intended for use in external sheltered conditions at temperatures between -20°C and +70°C, but no exposure to rain or UV, as well as humid and dry internal conditions.	ETAG 026-2 and 3
<b>Reaction to fire</b>	Class E	EN 13501-1

## Service

With more than 20 years of experience worldwide, Hilti is one of the leading suppliers of firestop systems. We actively help you manage your firestop projects better by providing:

- Quick engineering judgements
- Extensive technical literature
- On-site training and demonstration
- Sophisticated jobsite logistics
- Assurance of conformity with specific application requirements
- International network of Hilti firestop specialists

Our network of experienced sales representatives, field engineers, firestop specialists and customer service representatives is just a phone call away 0800 444 584.

**Hilti. Outperform. Outlast.**

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