

MINIMIZE RISK, INCREASE PRODUCTIVITY

Pre-formed Devices

Installing firestop material is a critical application. At times of fire, it can determine the survival of people trying to escape and reduces damage to assets.

To ensure quality of installation as well as reduce the installation time, Hilti has developed a ready-made solution for passive fire protection.



Pre-formed devices are ready-made firestop devices that can be directly installed, minimizing installation deviations, eliminating mistakes, saving time and cost.

At Hilti we have various Pre-formed devices that cover different applications. Below are some examples of Pre-formed devices:

HILTI SPEED SLEEVE

Applications

- Firestopping cable penetrations for single and bundled-cables
- For use on concrete, masonry and drywall

Features

- Fully functional immediately after installation
- Easy maintenance and re-penetration of cables



HILTI FIRESTOP BLOCK

Applications

- Non-curing, re-usable solution for medium to large openings
- Highly productive one-sided, one-person installation

Features

- Easy installation, no special tools required
- New grid technology allows for up to 12" of annular space without the need for a cover plate or wire mesh



CAST-IN-DEVICE

Applications

- To be casted directly in the concrete
- For use with metal and plastic pipes

Features

- One-step firestop solution for a variety of combustible pipe materials and diameters - no additional sealing required
- Integrated water and smoke seal



HIGH PERFORMANCE & MOVEMENT CAPABILITY

Firestop Systems

At Hilti, we have conducted extensive tests according to the latest industry standards. As a result, we provide independently approved solutions that have been tested to withstand movement.



Movement in buildings is an occurring event. It can damage gas pipelines and electrical systems, increasing the risk of fire. It might impair active firefighting systems such as detection or sprinkler systems, as it cuts off the water supply or causes damage to the pipes. Similarly, following an earthquake, fire is the major cause of losses in lives as well as financial damages. This is when the life safety in building relies greatly on passive fire protection systems that do not depend on electricity or water supply.

MOVEMENT CAPABILITY OF FIRESTOP SYSTEMS

ASTM E-3037 standard assesses the movement capability of through penetration products such as pipe and cable penetrations. Hilti products go through a two-direction cycle test followed by a fire test. The results are then classified as A, B or C – A being the best movement performance for a given direction.



Y-direction		
Material	Nomenclature permitted to be used	Movement
Pre-formed devices	Class A	≥ 50%
Sealants	Class C	<25%

Z-direction		
Material	Nomenclature permitted to be used	Movement
Pre-formed devices	Class A	≥1"
Sealants	Class C	<0.5"

PRE-FORMED DEVICES AS THE BEST SOLUTION FOR MOVEMENT

Pre-formed devices are outstanding in movement capabilities when compared to traditional firestopping systems, such as firestopping mortars or coated boards, and provides better movement class when compared to traditional sealants.

In case of service movement due to vibrations, water hammering, or seismic events, you can be rest assured that Hilti Pre-formed devices will work safely and efficiently.