CP 643N
Firestop Collar

Product description
- A ready-to-use firestop collar, made of a galvanized steel housing and intumescent inserts for firestopping combustible pipes

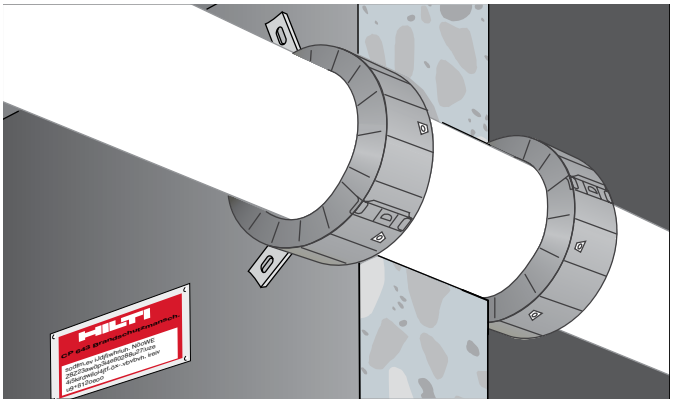
Product features
- Ready-to-use collar
- No construction required
- Fast installation time
- Adjustable mounting tabs
- Low profile for tight installations

Areas of application
- Firestopping combustible pipes up to 6" diameter in penetrations through fire walls and floors
- Suitable for the following pipe materials:
- PVC, CPVC, ABS, PVDF, PP and FRPP

For use with
- Concrete, masonry, wood floor and gypsum wall assemblies
- Wall and floor assemblies rated up to 4 hours

Types of installation
- Wall: two collars, one on each side
- Floor: one collar on underside (bottom)

Example
- Waste water pipes
- Fresh water pipes



Technical Data		CP 643N		
Description	**Pipe outside dia (in.)**	**Collar outside dia. (in.)**	**Collar Height (in.)**	**No. of hooks and fasteners**
CP 643-50/1.5"N	1.4–2.0	2.8	0.9	2
CP 643-63/2"N	2.0–2.5	3.4	1.3	2
CP 643-90/3"N	2.6–3.6	4.9	1.7	3
CP 643-110/4"N	3.6–4.5	6.0	1.9	3
CP 643-160/6"N	6.6	9.8	1.9	4
Temperature resistance		-40°F to 140°F (–40°C to 60°C)		
Intumescent activation		Approx. 392°F (200°C)		
Expansion ratio (unrestricted)		Up to 1:10		

Tested in accordance with
• UL 1479 • ASTM E 814 • CAN/ULC-S115

CLASSIFIED C UL US
FIRESTOP DEVICE
FOR USE IN THROUGH-PENETRATION
FIRESTOP SYSTEMS
SEE UL FIRE RESISTANCE DIRECTORY
5N76

FM APPROVED

FBC SYSTEM COMPATIBLE

Installation instructions for CP 643N

Notice
- Before handling, read Material Safety Data Sheet and product label for safe usage and health information.
- Instructions below are general guidelines — always refer to the applicable drawing in the UL Fire Resistance Directory or Hilti Firestop Systems Guide for complete installation information

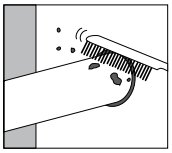
Opening
1. Clean the plastic pipes. Expansion of the intumescent material during a fire acts to close the plastic pipe. Very dirty pipes (ie: with remains of mortar) may lead to a delay in this closing action. Soiled plastic pipes should, therefore, be cleaned in the area where the CP 643N Firestop Collar is to be installed.

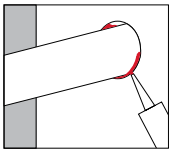
Application of firestop system
2. Seal the opening if required. Gaps may be closed with FS-ONE. The approved methods vary and are given in the specific UL system.
3. Close the CP 643N Firestop Collar. Place the CP 643N Firestop Collar around the plastic pipe and lock the closure by applying firm pressure until it latches.
4. Attach fastening hooks. The fastening hooks can be attached to various points on the metal housing. This allows the fastening points to be made to suit the space available in each case. The hooks must be positioned as symmetrically as possible. The required number of fastening hooks is indicated on the packaging.
5. Fastening the CP 643N Firestop Collar. Only when fastened properly can CP 643N offer protection against fire.

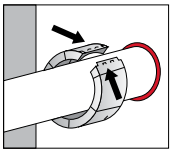
a. Mark the fastening points.
b. Drill holes with a Hilti rotary hammer drill (i.e. TE 4-A18) or, depending on base material, fasten using Hilti powder-actuated tool.
c. To secure the CP 643N Firestop Collar, use Hilti anchors/fasteners.
d. For maintenance reasons, a penetration can be permanently marked with an identification plate and fastened in a visible position next to the seal.

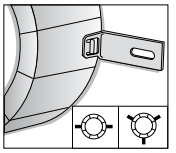
Not for use
- With metal pipes
- In highly corrosive surroundings
- With unapproved anchors/fasteners

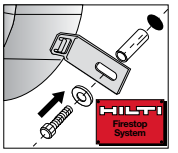
Storage
- Store only in the original packaging in a location protected from moisture


1. Clean plastic pipe.


2. Close remaining gap to provide smoke and gas resistant seal.


3. Close collar.


4. Attach fastening hooks.



5. Fasten collar and identification plate (if required).

Hilti Firestop
Saving lives through innovation and education

Hilti. Outperform. Outlast.

MATERIAL SAFETY DATA SHEET

Product identifier: **CP 643N Firestop Collar/CP 644 Firestop Collar**

Product use: Galvanized metal housing containing black polymer-bonded intumescent firestop material for use around plastic pipes.

Supplier: Hilti (Canada) Corporation, 2360 Meadowpine Blvd., Mississauga, Ontario L5N 6S2

Originator Hilti, Inc., P. O. Box 21148, Tulsa, Oklahoma, USA 74121

Emergency number: **Chem-Trec: 1 800 424 9300**

INGREDIENTS INFORMATION

Not a hazardous chemical as defined by the Controlled Products Regulations SOR/88-66; considered to be a manufactured "article".

PHYSICAL PROPERTIES

Appearance / Physical state:	Galvanized metal collar/black firestop material	**Odour:**	No odour
Specific gravity (at 20ºC):	Not applicable.	**Odour threshold:**	Not available.
Vapour pressure (at 20ºC):	Not applicable.	**VOC Contemt:**	7.6 g/l.
Evaporation rate:	Not applicable.	**Boiling point:**	Not applicable.
Freezing point:	Not applicable.	**pH:**	Not applicable.
Coefficient of H_20 / oil distrib:	Not applicable.	**Solubility in water:**	Not available.

FIRE AND EXPLOSION DATA

Flash point / Method	Not applicable.	**Flammable limits:**	Not applicable.
Conditions of flammability:	Non-flammable	**Auto-ignition temperature:**	Not available.
Means of extinction:	Not applicable; as appropriate for surrounding fire.		
Special fire fighting procedures:	None known. Product serves as a Firestop; intumescent material inside the collar expands when exposed to temperatures > 160ºC (320ºF).		
Hazardous combustion products:	Refer to "Hazardous decomposition products" (next section).		
Sensitivity to mechanical impact / static discharge:	Not susceptible to mechanical impact or static discharge.		

REACTIVITY DATA

Stability:	Stable. Hazardous polymerization will not occur.
Incompatible materials:	None known.
Conditions of reactivity:	None known.
Hazardous decomposition products:	None known.

TOXICOLOGICAL PROPERTIES

Routes of exposure:	☒ N/A ☐ Skin contact ☐ Skin absorption ☐ Eye contact ☐ Inhalation ☐ Ingestion
Exposure limits:	None established.
Acute effects of exposure:	Not applicable.
Chronic effects of exposure:	Not applicable.

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Synergistic materials:	None known.

FIRST AID MEASURES

Eyes:	Flush with water if dust, debris, etc. from work over head gets into the eyes. Do not rub the eyes as this can cause corneal abrasion. Call a physician if irritation continues, or if redness, swelling, or similar symptoms occur.
Skin:	Practice good hygiene; i.e., wash hands during breaks, before eating or smoking and after work.
Inhalation:	No first aid should be needed. If ill effects occur, move to fresh air. If symptoms persist, seek medical attention.
Ingestion:	Not a likely route of exposure.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

PREVENTIVE MEASURES

Engineering controls:	General (natural or mechanically induced fresh air movements).
Eye protection:	Safety glasses are recommended for most industrial settings.
Skin protection:	None required; however (cotton) gloves are recommended.
Respiratory protection:	None normally required.
Other:	No additional measures are normally required.
Handling procedures and equipment:	No special requirements.
Storage requirements:	Store in a cool dry place.
Spill, leak or release:	No special requirements.
Waste disposal:	Consult federal, provincial and local regulations for allowed means of disposal.
Special shipping instructions:	None known.

REGULATORY INFORMATION

WHMIS classification:	None (exempt / manufactured article)
HMIS codes:	Health 0, Flammability 0, Reactivity 0, PPE A
IATA/ICAO Shipping Name:	Not regulated.
TDG shipping name:	Not regulated.

PREPARATION INFORMATION / CONTACTS

Prepared by:	Hilti, Inc., Tulsa, OK USA	Date of Preparation: August 25, 2009	**Emergency phone number:**	1 800 424 9300
Customer Service:	Hilti (Canada) Corporation, Mississauga, Ontario; 1 800 363 4458			
Health / Safety contacts:	Hilti, Inc., Tulsa, OK USA; 1 800 879 6000, Jerry Metcalf (x1003704)			
Abbreviations used:	**N/E** = None Established. **N/A** = Not Applicable. **N/Av** = Not Available. **H** = Hours. **HMIS:** Hazardous Materials Identification System			

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.

Certificate of Compliance

Certificate Number **20069214-R15431**
Report Reference **2006 February 14**
Issue Date **2006 February 14**

Underwriters Laboratories Inc.®

Issued to: Hilti, Inc.
5400 S 122ND East Ave
Tulsa, OK 74146 USA

This is to certify that representative samples of Firestop Devices
CP643N 50/1.5 in., CP643N 63/2 in., CP643N 90/3 in. and CP643N 110/4 in., CP643N 160/6 in., CP644 200/8 in. and CP644 250/10 in.

Have been investigated by Underwriters Laboratories Inc.® in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 1479, CAN/ULC-S115-05

Additional Information: CP 643N and CP 644 Firestop Collar for use in Through-Penetration Firestop Systems as currently described in the UL Fire Resistance Directory.

Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle symbol: with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and, the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product

Issued by:
Mona Couloute
Mona Couloute
Underwriters Laboratories Inc.

Reviewed by:
Christopher Johnson
Underwriters Laboratories Inc.