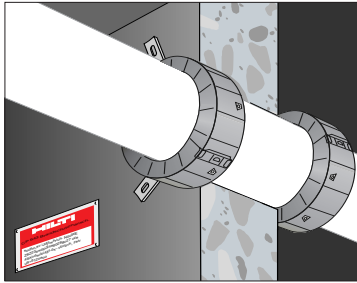


CP 643N

Firestop Collar



System Advantage / Customer Benefits

- Quick and easy closure without the use of a tool
- Adjustable position tabs for simple fastening
- Low profile for tight installations

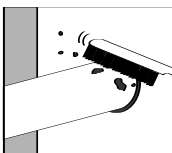
Installation instructions for CP 643N

Opening

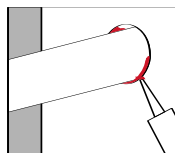
1. Clean the plastic pipes. Expansion of the intumescent material during a fire acts to close the plastic pipe. Very dirty pipes with, for example, remains of mortar, may lead to a delay in this closing action. Soiled plastic pipes should, therefore, be cleaned in the area where the CP 643N firestop collar is to be installed.

Application of firestop system

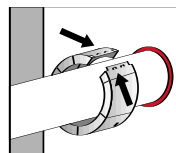
2. Seal the opening if required. Gaps may be closed with FS-ONE. The approved methods vary and are given in the specific UL/cUL system.
3. Close the CP 643N firestop collar. Place the CP 643N firestop collar around the plastic pipe and lock the closure by applying firm pressure until it latches.
4. Attach 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 passing through.
 - a. Mark the fastening points.
 - b. Drill holes with a Hilti rotary hammer drill (i.e. TE 5) or, depending on base material, fasten using Hilti power actuated tool.



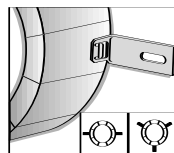
1. Clean plastic pipe.



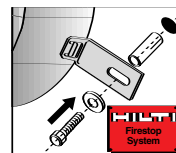
2. Close remaining gap to provide smoke and gas resistant seal.



3. Close collar.



4. Attach fastening hooks.



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

Product description

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

Product features

- Adjustable mounting tabs
- Ready-to-use collar; no construction required, therefore fast installation time

Areas of application

- Firestopping combustible pipes up to 4" in diameter in penetrations through fire walls and floors.
- Suitable for the following pipe materials: PVC, CPVC, ABS, PVDF, PP and FRPP (50 pa. test)

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

- c. To secure the CP 643N firestop collar, use Hilti anchors/fasteners.
- d. For maintenance reasons, a penetration seal can be permanently marked with an identification plate and fastened in a visible position next to the seal.

Notice about approvals

- When making a pipe seal using Hilti CP 643N Firestop Collar, please refer to the UL/cUL Fire Resistance Directory or the Hilti Firestop Manual for complete details, including restrictions as to opening size, type and thickness of wall or floor, maximum pipe diameter, etc.

Not for use...

- With metal pipes
- In highly corrosive surroundings
- With unapproved anchors/fasteners

Safety precautions

- Keep out of the reach of children
- Read the Material Safety Data Sheet

Storage

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

CP 643N

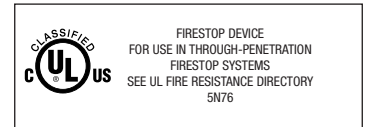
Technical Data

Description	Pipe outside dia. (in.)	Collar outside dia. (in.)	Collar Height (in.)	No. of hooks & fasteners
	1.4-2.0	2.8	0.9	
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

Tested in accordance with

- UL 1479
- ASTM E 814
- ULC-S115-95
- CAN4-S115-95M
- ULC-S115-95M

Internationally tested and approved



latest product information : www.ca.hilti.com

ordering information see page:

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MSDS No.: 301C
 Revision No.: 000
 Prep. Date: 3/12/04
 Page: 1 of 2

Product identifier: CP 643N Firestop Collar

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

Supplier: Hilti (Canada) Corporation, 6790 Century Avenue, Suite #300, Mississauga, Ontario L5N 2V8

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/ blackfirestop material	Odour:	No odour
Specific gravity (at 20°C):	Not applicable.	Odour threshold:	Not available.
Vapour pressure (at 20°C):	Not applicable.	Vapour density:	Not applicable.
Evaporation rate:	Not applicable.	Boiling point:	Not applicable.
Freezing point:	Not applicable.	pH:	Not applicable.
Coefficient of H2O / 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 > 160°C (320°F).		
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:	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Skin contact <input type="checkbox"/> Skin absorption <input type="checkbox"/> Eye contact <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion
Exposure limits:	None established.
Acute effects of exposure:	Not applicable.
Chronic effects of exposure:	Not applicable.
Synergistic materials:	None known.

INTRODUCTION

APPLICATIONS / PRODUCTS

SYSTEM DETAILS

ESTIMATING TABLES / TECH DATA

MSDS No.:	301C
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Prep. Date:	3/12/04
Page:	2 of 2

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.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

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.

PRECAUTIONS FOR SAFE HANDLING AND USE

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
TDG shipping name:	Not regulated.

PREPARATION INFORMATION / CONTACTS

Prepared by:	Hilti, Inc., Tulsa, OK USA	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 (x6704)		
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**

Page 1 of 1



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

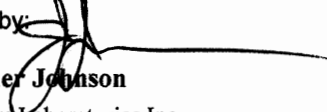
Additional Information: CP 643N and CP 644 Firestop Collar for use in Through-Penetration Firestop
Systems as currently described in the UL Fire Resistance Directory.

**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
Underwriters Laboratories Inc.

Reviewed by:

Christopher Johnson
Underwriters Laboratories Inc.