

Proper Firestopping. Fast.

CP 680-P and CP 680-M Cast-In Place Firestop Devices

Hilti's Cast-In Place devices - when combined with the correct firestop systems - are the complete Firestop solution for virtually all penetrations through cast-concrete slabs. The simple, modular system limits inventory & promotes fast assembly and layout. Standard vertical penetrations are properly firestopped, saving time and costs – especially for projects with a high number of identical floor penetrations.



Superior performance

- One-step firestop solution for a variety of pipe materials and diameters
- Ready to use; some applications may require additional material
- Integrated smoke seal

Ordering Information

CP 680-P Cast-In Device for Combustible Penetrations

Item No.	Quantity	Description
244244	1	CP 680-P 2"
244245	1	CP 680-P 3"
244246	1	CP 680-P 4"
244247	1	CP 680-P 6"

CP 680-M Cast-In Device for Metallic Penetrations

Item No.	Quantity	Description
244248	1	CP 680-M 2"
244249	1	CP 680-M 3"
244250	1	CP 680-M 4"
244251	1	CP 680-M 6"

Technical Data

	ID	Footprint	Center-to-Center
CP 680-P/M 2"	2-7/8" (73 mm)	3-3/4" x 4-1/2" (94 mm x 114 mm)	3-3/4" (94 mm)
CP 680-P/M 3"	4.00" (102 mm)	4-3/4" x 5-5/8" (121 mm x 143 mm)	4-3/4" (121 mm)
CP 680-P/M 4"	5.00" (127 mm)	6-3/8" x 6-3/4" (162 mm x 172 mm)	6-3/8" (162 mm)
CP 680-P/M 6"	6-7/8" (175 mm)	9" x 9-1/2" (229 mm x 240 mm)	9" (229 mm)
Standard Height	8.00" (203 mm)		
Expansion Temperature	392°F (200°C)		
Expansion Rate	1:50 (unrestrained)		
	1:30 (load expansion, load = 20 g / cm3)		
Temperature Resistance	212°F (100°C)		
Color	CP 680-P: red housing		
	CP 680-M: black housing		

Approvals

California State Fire Marshal	Listing #	(Pending)
City of New York	MEA-	(Pending)
Tested in accordance with	• UL 1479	• CAN4-S115
	• ASTM E 814	• ULC-S115

(All of these are pending as of 2006 Dec 15)



Hilti also offers these other innovative cast-in products...



New Application Offerings

- Devices now in four sizes: 2", 3", 4" & 6"
- Solutions for combustible and non-combustible



QuickTurn Connection System

- Fast, simple vertical connections
- Featured in all CP 680 devices; cover caps; W-Barrier Modules; height extensions & metal deck adaptors



New, Smaller Footprints

- Minimizes center-to-center pipe distances
- 2" device fits in a 2-1/2" stud wall
- 3" device fits in a 3-1/2" stud wall



SpeedLine Alignment System

- Interlocking bases promote faster layout of devices of all sizes
- Helps plumbers and electricians with rows of pipes and conduits



Double the Annular Space (A.S.)

- Extra room means easier positioning and installation
- 1/4" nominal A.S. for 2", 3" & 4"
- 1/8" nominal A.S. for 6"



Superior Metal Deck Solution

- Secure below-deck extension
- Sleek design translates to smaller holes cut through the metal deck



Height Extension

- One extension adds up to 6"
- For concrete floors over 8"
- "Screw on" feature promotes a secure connection to device & cover cap

CP 680-P Cast-In Height Extension

Item No.	Qty.	Description
3424887	10	CP 680-P 2" EXT
3424888	10	CP 680-P 3" EXT
3424889	10	CP 680-P 4" EXT
3424890	1	CP 680-P 6" EXT

CP 680-M Cast-In Height Extension

Item No.	Qty.	Description
3424891	10	CP 680-M 2" EXT
3424892	10	CP 680-M 3" EXT
3424943	10	CP 680-M 4" EXT
3424944	1	CP 680-M 6" EXT



Metal Deck Adaptors

- Secure below-deck extension
- Sleek design translates to smaller holes cut through the metal deck

CP 680-P Metal Deck Adaptors

Item No.	Qty.	Description
3424945	10	CP 680-P 2" MD
3424946	10	CP 680-P 3" MD
3424947	10	CP 680-P 4" MD
3494948	1	CP 680-P 6" MD

CP 680-M Metal Deck Adaptors

Item No.	Qty.	Description
3424949	10	CP 680-M 2" MD
3424950	10	CP 680-M 3" MD
3424951	10	CP 680-M 4" MD
3424952	1	CP 680-M 6" MD



Tub Box

- Three-point connection creates a fast, level foundation that easily situates around rebar
- Upon request, device may be extended or lowered to accommodate various slab thicknesses
- Foam inlay can be thickened for deep-recess applications
- Special elastomeric sealing = no protective tape required

Tub Box & Accessories

Item No.	Qty.	Description
377920	1	Tub Box Kit, Standard - Assembly is 10-1/2" in height Includes tub box, sealing bushing for Schedule 40 pipe, (2) legs, flange and styrofoam inlay.
3002087	1	Tub Box Kit, Custom - Delivered pre-cut: please specify slab height when ordering Includes tub box, sealing bushing for Schedule 40 pipe, (2) legs, flange and styrofoam inlay.
3410182	1	Bushing, Standard (1-1/2", Schedule 40)
3009526	1	Bushing, Thin Wall (1-1/2")



Water Barrier Module

- Available in 2" - 3" - 4" - 6" sizes
- Adds 1" to the overall height
- Secures to cover cap

Item No.	Qty.	Description
244260	10	CP 680-P/M 2" WR
244261	10	CP 680-P/M 3" WR
244262	10	CP 680-P/M 4" WR
244263	1	CP 680-P/M 6" WR



Aerator Adaptors (AA)

- 3" or 4" aerator adaptor connects the firestop device to the solvent
- Less penetrations per floor
- 3" device fits hidden within a 3-1/2" stud assembly

Item No.	Qty.	Description
244264	1	Aerator Adaptor, 3"
244265	1	Aerator Adaptor, 4"



Closet Stub

- Cast-In device for toilet fixtures
- Durable PVC construction (ASTM 2665)
- Material can be attached to pipes via solvent welding or glue

Item No.	Qty.	Description
3425433	12	Toilet Flange, 3"
3425434	12	Toilet Flange, 4"



Shower & Floor Drain

- Ideal solution for shower and floor drains

Item No.	Qty.	Description
3410134	10	Extended Sleeve
3425365	10	Hub Coupling

**MATERIAL SAFETY DATA SHEET**

Product identifier: CP 680-P / CP 680-M - Cast-in Firestop Devices

Product description: CP 680-P – Black intumescent material enclosed in a red plastic housing
CP 680-M – Black intumescent material enclosed in a black plastic housing

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 phone 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:	Red plastic sleeve (CP 680-P) Black plastic sleeve (CP 680-M)	Odor:	No odor
Specific gravity (at 20°C):	Not applicable.	VOC content:	7.6 g/l
Vapor pressure (at 20°C):	Not applicable.	Vapor 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 (e.g. Water, CO ₂ , Dry Chemical, Foam).		
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:	None known.		
Sensitivity to mechanical impact / static discharge:	Not susceptible to mechanical impact or to a static discharge.		

REACTIVITY DATA

Stability:	Stable. Hazardous polymerization will not occur.
Incompatible materials:	None identified.
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:	Not available.
Acute effects of exposure:	None known.
Chronic effects of exposure:	None known.

Synergistic materials: None known.

FIRST AID MEASURES

Eyes: Flush with water if dust, debris, etc. from work overhead gets into eyes. Do not rub 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. Follow installation instructions.

Storage requirements: Store in a cool dry area.

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 **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)

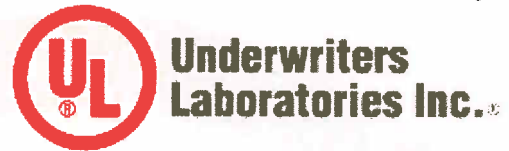
Abbreviations used: **N/E** = None Established. **N/Ap** = Not Applicable. **N/Av** = Not Available. **HMIS:** Hazardous Materials Identification System

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 **20061214-R15431**
Report Reference **2006 December 14**
Issue Date **2006 December 14**

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


This is to certify that representative samples of **Firestop Devices**
CP 680-M 2 in., CP 680-M 3 in., CP 680-M 4 in., CP 680-M 6 in.,
CP 680-P 2 in., CP 680-P 3 in., CP 680-P 4 in., CP 680-P 6 in., and CP 681

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 680-M 2 in., CP 680-M 3 in., CP 680-M 4 in., CP 680-M 6 in., CP 680-P 2 in., CP 680-P 3 in., CP 680-P 4 in., CP 680-P 6 in., and CP 681 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

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