

## CAST-IN-PLACE CABLE CHASE SLEEVE PS-CS-0200 & PS-CS-0300



**For use in**

- Concrete floor assemblies with flat form decks
- Dust and fiber free environments such as hospitals, computer centers and laboratories

**Product Description**

- HydroFlame cable chase sleeves offer fire and water protection for a variety of cable sizes and types that pass through concrete floors in single and multi-story buildings
- These sleeves are delivered to the job site completely assembled and need only be fastened to the wood form deck for installation
- Tested and approved by UL
- OSHA compliant safety cap

**Cable Through Penetrants**

Miscellaneous cables

Note: Please refer to the UL listings for the appropriate cable penetrants

**Product Feature & Benefits**

- Simple and quick installation
- Helps prevent water, fire, smoke, moisture & mold intrusion
- Sleeves are pre-cut at the factory to your specified height

**Not for use in**

- Walls

**Safety & Precautions**

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

**Storage of Device**

- Store in a covered or closed area protected from weather
- Do not stack devices on top of one another other than how they are shipped from manufacture

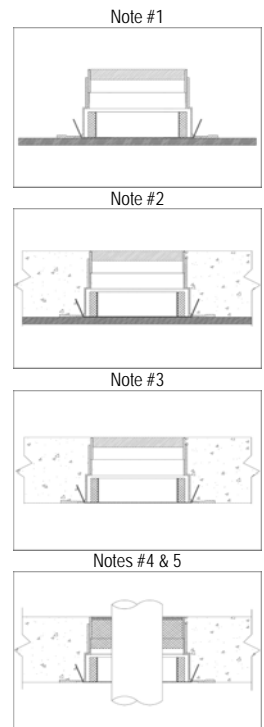
Technical Data for HYDROFLAME Firestop Material	
<b>Physical Properties</b>	
Color: Gray/Black	
<b>Heat Expansion (Intumescence)</b>	
Expansion begins:	410°F (210°C)
Significant expansion:	555°F (290°C)
Free expansion:	25 times (5 min @ 662°[350°C])
<b>Weatherability (Tested to ASTM G23 and G53)</b>	
Test Condition	Temperature/Humidity 90°F (32°C)/90%
Time	120 Days
After Exposure	No change in expansion
<b>Surface Burning Characteristics (ASTM E84, UL 723)</b>	
Flame spread index: 0	
Smoke development index: 5	
<b>Testing Data</b>	
UL Fire Tested & Listed to UL 1479 (ASTM E814) Standards	
L Rating UL	
W Rating UL	
F Rating UL – 3 Hours	



### Installation Instructions

- Lay out lines on the wood form deck for the appropriate location of sleeve; center sleeve with the hatch marks on the sleeve base with the layout lines on the wood form deck. **Note: It is recommended to use 6 penny nails through the nail slots to secure device to the deck. You may use appropriate staples to secure the device to form deck by straddling the nail slots on the edge of the base. DO NOT USE SCREWS TO SECURE THE DEVICE TO FORM DECK BECAUSE THE FORM DECK OR DEVICE COULD BE DAMAGED.** A Minimum of 4 holes should be used for nailing the sleeve to the wood form deck.
- Before pouring of concrete slab, be sure the protective cap on top of sleeve is in place before concrete pour. Pour concrete around sleeve to the appropriate concrete thickness.
- After concrete has cured remove wood form deck and the protective cap from the top portion of device before inserting cable/cables.
- Insert cable/cables up through the bottom of the sleeve and fire ring, support cable/cables with appropriate support on each side of Cable Chase Sleeve after cable/cables have been inserted through the sleeve. Note: Take precaution when cable/cables are inserted up through bottom of sleeve not to damage fire ring.
- After cable/cables have been inserted up through bottom of sleeve and properly supported on each side of Cable Chase Sleeve, pack mineral wool in top of sleeve around each cable approximately 2 inches in depth min and compressed down into the top of the sleeve so there is a ¼" from the top of sleeve to the top of mineral wool. To achieve water seal use 3M products FB-1000 NS, FB-3000 WT or FB-1003 SL sealant to fill the top of the packed mineral wool and around each cable to form a water tight seal. Sealant to lap a min ½" onto the top surface of concrete around perimeter of firestop device. Please refer to UL listing XHEZ.F-A-3052 for full details.

**Note:** HOLDRITE HYDROFLAME is not responsible for sleeve performance when installation instructions are not followed and will not be liable for damage to property or persons due to improper installation of materials or through attempts to utilize the material under conditions which exceed the designed capacities. Purchaser agrees to indemnify and hold HOLDRITE harmless for any and all claims, liabilities, damages, costs and expenses asserted against HOLDRITE or incurred by us because of injuries to persons or damages to property resulting from the improper installation or misuse of the material. For additional warranty limitations, refer to HOLDRITE's limited warranty dated 1/15/13.



Product Submittal	
Job Name:	Architect/Owner:
Date:	Contractor:
Part#:	Qty:
	Notes:

spec\_HFCCS\_RevG

## System No. F-A-3052 XHEZ.F-A-3052 Through-penetration Firestop Systems

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### Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

### XHEZ - Through-penetration Firestop Systems

#### XHEZ7 - Through-penetration Firestop Systems Certified for Canada

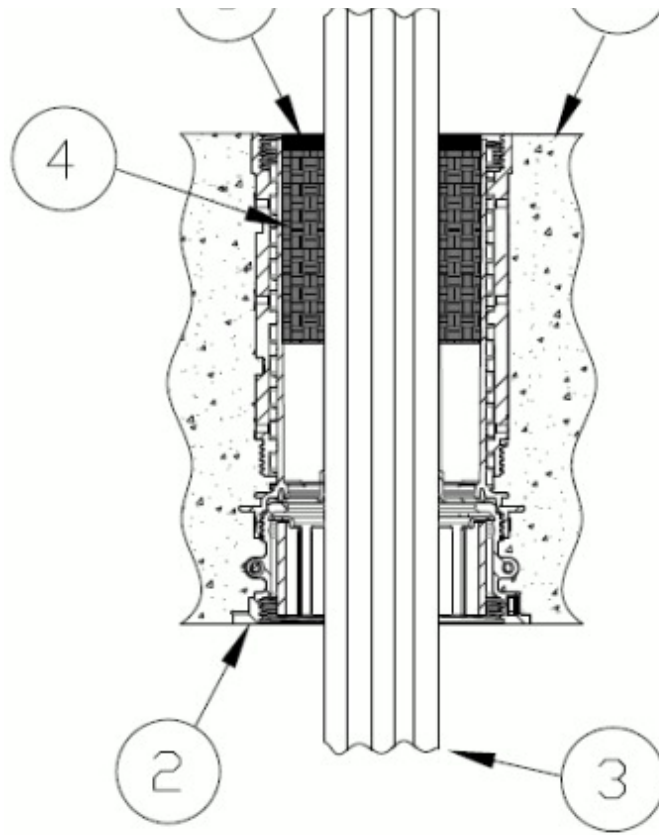
[See General Information for Through-penetration Firestop Systems](#)

[See General Information for Through-penetration Firestop Systems Certified for Canada](#)

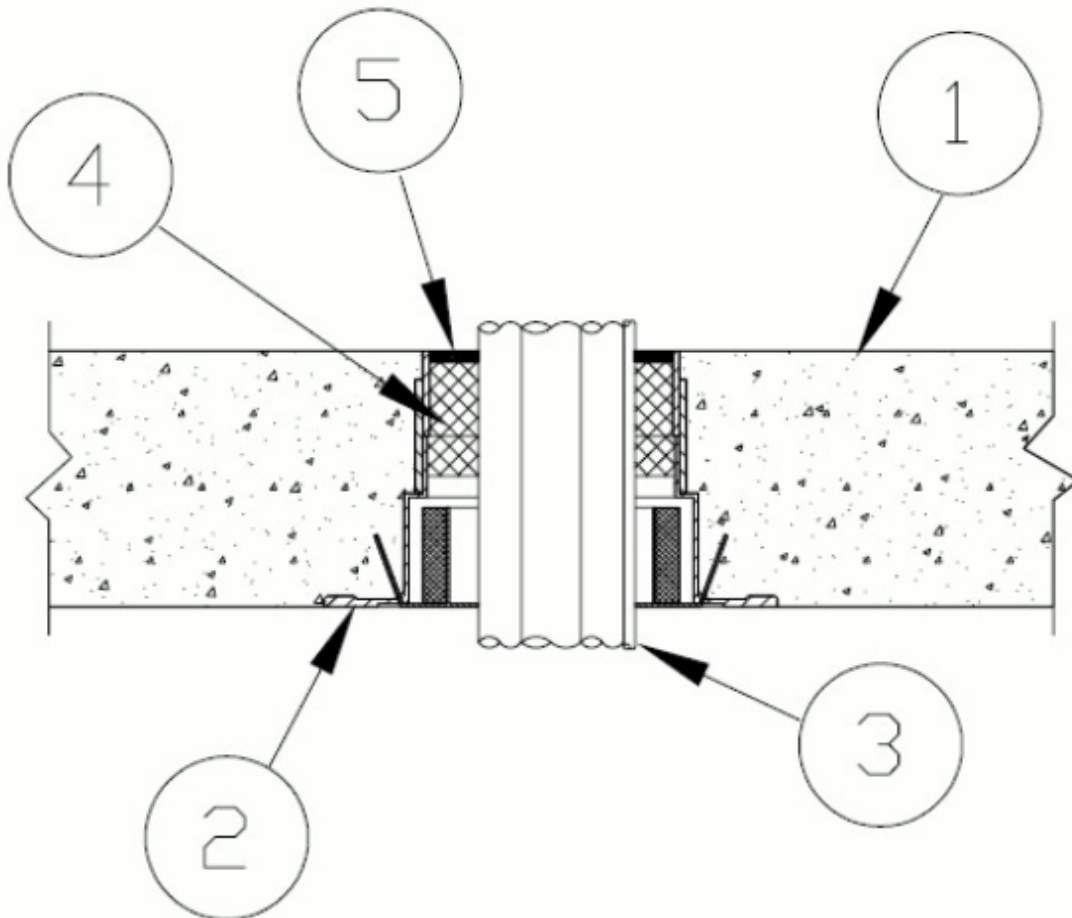
### System No. F-A-3052

September 12, 2016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 1/4 Hr	FT Rating — 1/4 Hr
L Rating At Ambient — Less Than 1 CFM/ft <sup>2</sup>	FH Rating — 3 Hr
L Rating At 400 F — Less Than 1 CFM/ft <sup>2</sup>	FTH Rating — 1/4 Hr
W Rating — Class 1	L Rating At Ambient — Less Than 5.1 L/s/m <sup>2</sup>
	L Rating At 400 F — Less Than 5.1 L/s/m <sup>2</sup>



Configuration A



Configuration B

kg/m<sup>3</sup>) concrete.

1A. **Alternate Floor Assembly** — (Not Shown) — The fire rated unprotected concrete and steel deck floor assembly shall be constructed of the material and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:

A. **Concrete** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete, as measured from the top plane of the steel floor units.

B. **Steel Floor and Form Units\*** — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.

2. **Firestop Device\*** — Cast in place firestop device permanently embedded during concrete placement in accordance with accompanying installation instructions. For HFP devices the optional accessories (not shown) includes sleeve extension and/ or deck adapter, installed in accordance with installation instructions. The device shall be installed flush with top and bottom surfaces of floor. The devices are sized to accommodate the following nom pipe sizes:

Nom Pipe Diam in. (mm)	Conf A Firestop Devices for Concrete Slab	Conf A Firestop Devices for Fluted Deck (Not Shown)	Conf B Firestop Devices for Concrete Slab	Conf B Firestop Devices for Fluted Deck (Not Shown)
1-1/4 to 2 (32 to 51)	HFP-CSM2, HFP-CSM2B, HFP-P2, HFP-P2B, HFP-M2, HFP-M2B	add HFPCD2	PS-CS-0200	CD-CS-0200
2 to 3 (51 to 76)	HFP-CSM3, HFP-CSM3B, HFP-P3, HFP-P3B, HFP-M3, HFP-M3B	add HFPCD3	PS-CS-0300	CD-CS-0300

**SECURUS INC, DBA HOLDRITE** — (Configuration A) HFP-CSMx, HFP-CSMxB, HFP-Px, HFP-PxB, HFP-Mx, HFP-MxB; (Configuration B) HydroFlame PS-CS, CD-CS

3. **Cables** — Aggregate cross-sectional area of cables in opening to be max 45 percent of the cross-sectional area of the nom 2 in. (51 mm) or 3 in. (76 mm) diam firestop device throat. Min separation between cables and between cables and periphery of firestop device throat is 1/8 in. (3.2 mm). Cables to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of copper conductor cables may be used:

- A. Max 1/C 500 kcmil cable with crosslinked polyethylene (XLPE) jacket.
- B. Max 8/C No. 12 AWG or max 12/C No. 14 AWG cable with XLPE insulation and jacket.
- C. Max 100 pair No. 24 AWG cable with PVC insulation and jacket.

4. **Packing Material** — Min 2 in. (51 mm) depth of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed into top of firestop device as a permanent form. Packing material to be recessed from top surface of floor as required to accommodate the required thickness of fill material.

5. **Fill, Void or Cavity Material\* — Sealant** — Min 1/4 in. (6 mm) thickness of sealant applied within the annulus, flush with the top surface of floor. Sealant to be forced into interstices of cable group to max extent possible.

Conf B (Only) - Sealant to lap min 1/2 in. (13 mm) onto top surface of concrete around perimeter of firestop device.

**3M COMPANY 3M FIRE PROTECTION PRODUCTS** — FB-1000 NS, FB-3000 WT or FB-1003 SL

**RECTORSEAL** — Metacaulk 835+ or Biotherm 100 or 200

**\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2016-09-12

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