

# THROUGH-PENETRATION FIRESTOP SYSTEM

Assembly Usage Disclaimer

## Search Parameters

Manufacturer

Holdrite

### XHEZ - Through-penetration Firestop Systems

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

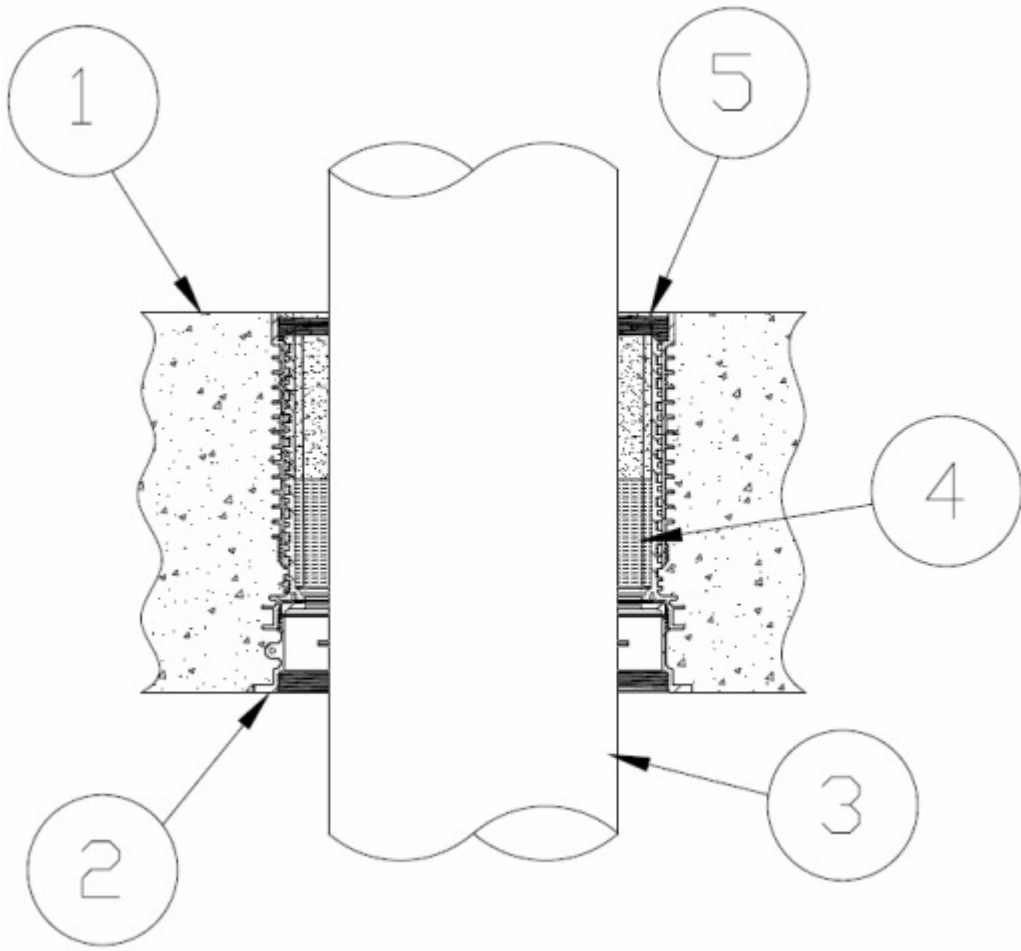
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

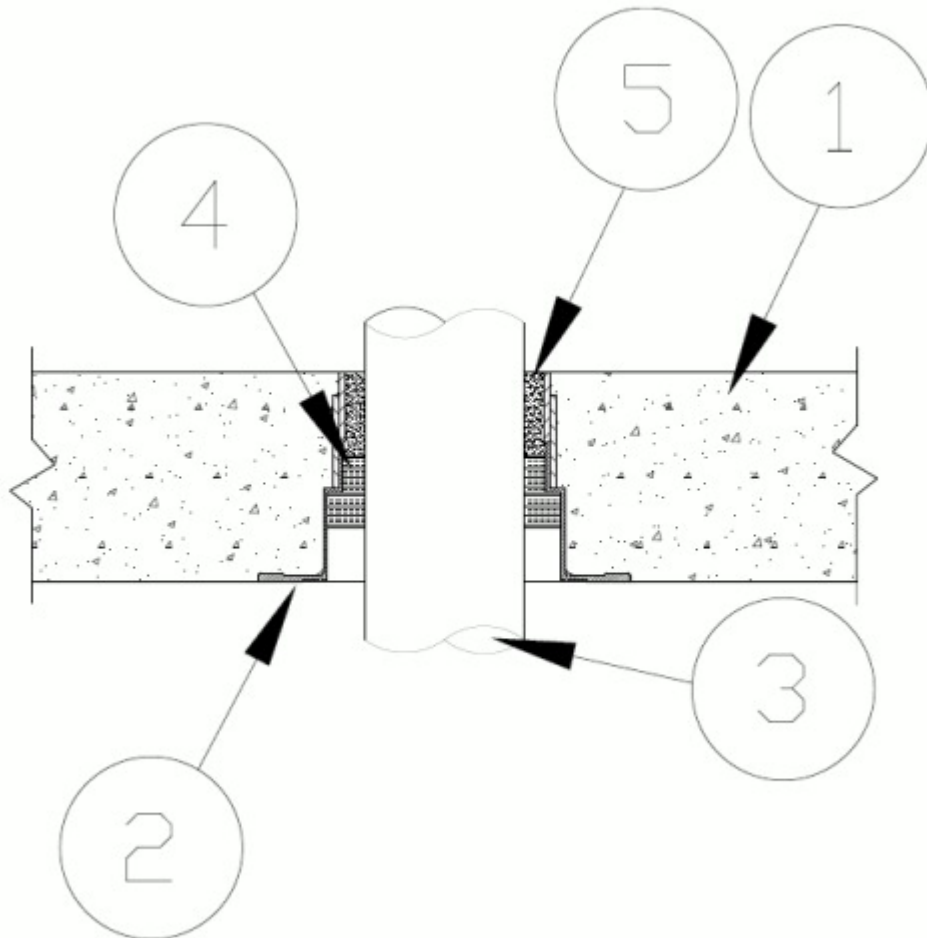
#### System No. F-A-2269

October 29, 2018

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 2 or 3 Hr (See Item 3)	F Ratings — 2 or 3 Hr (See Item 3)
T Ratings — 0 or 1/2 Hr (See Item 3)	FT Ratings — 0 or 1/2 Hr (See Item 3)
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Ratings — 2 or 3 Hr (See Item 3)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 0 or 1/2 Hr (See Item 3)
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

**System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.**

**1. Floor Assembly** — 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 measured over top of device base.

**1A. Floor Assembly** — (As an alternate to Item 1) The fire-rated concrete and fluted steel deck floor assembly shall be constructed of the materials 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 topping, as measured over crests of fluted floor units and over top of device base.

**B. Steel Floor and Form Units\*** — Composite or noncomposite nom 3 in. (76 mm) deep fluted galv units as specified in the individual Floor-Ceiling design. Diam of opening cut through fluted floor unit to be maximum 1/4 in. (6 mm) larger than outside diameter of bottom extension portion of firestop device base.

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

Nom Pipe Diam in. (mm)	Conf A Devices for Concrete Slab	Conf A Devices for Fluted Deck (Not Shown)	Conf B Devices for Concrete Slab	Conf B Devices for Fluted Deck (Not Shown)
1/4 to 1-1/4 (6 to 32)	HFP-H2, HFP-H2B	add HFPCD1	WD Sleeve	CD Sleeve
1 to 2 (25 to 51)	HFP-H3, HFP-H3B	add HFPCD2	WD Sleeve	CD Sleeve
1-1/4 to 3 (32 to 76)	HFP-H4, HFP-H4B	add HFPCD3	WD Sleeve	CD Sleeve

**HOLDRITE** — HydroFlame (Config A), HFP-H2 HFP-H2B, HFP-H3, HFP-H3B, HFP-H4, HFP-H4B, (Config B), WD & CD Sleeve

**3. Through Penetrant** — One nonmetallic pipe or conduit to be installed within the firestop device. Pipe or conduit to be installed in accordance with firestop device installation instructions and rigidly supported on both sides of floor assembly. The following types of pipe, conduit or tubing may be used:

**A. Polyvinyl Chloride (PVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

**A1. Polyvinyl Chloride (PVC) Pipe** — As an alternate to Item A, Nom 2 in. (51 mm) diam (or smaller) solid or cellular core Schedule 40 polyvinyl chloride (PVC) pipe.

**IPEX INC** — System 15 piping

**B. Rigid Nonmetallic Conduit+** — Nom 2 in. (52 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).

**C. Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 (or heavier) or Schedule 40 CPVC pipe for use in closed (process or supply) piping systems.

**C1. Chlorinated Polyvinyl Chloride (CPVC) Pipe** — As an alternate to Item C, Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC for use in closed (process or supply) piping systems.

**IPEX INC** — AquaRise

**D. Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

**E. Cross-Linked Polyethylene (PEX) Tubing** — Nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems. (HFP series devices only) Nom 3 in. (76 mm) diam (or smaller) SDR PEX tubing in closed (process or supply) piping systems.

**F. Polypropylene (PP) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Aquatherm SDR 7.4 or 11 PP pipe for use in closed (process or supply) piping systems.

**The T, FT and FTH ratings are 1/2 hr except when Item 3F Polypropylene is used then T, FT and FTH are 0 hr.**

**4. Packing Material** — (Optional) — Min 2 in. (102 mm) depth of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation tightly-packed into annular space with its top

surface recessed min 2 in. (51 mm) from top surface of floor.

**5. Fill, Void or Cavity Material\* — Sealant —** Min 2 in. (51 mm) thickness of sealant applied within the annulus, flush with the top surface of floor.

**RECTORSEAL** — Metacaulk 1000

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

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

+ Bearing the UL Listing Mark

Last Updated on 2018-10-29

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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.

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