

THROUGH-PENETRATION FIRESTOP SYSTEM

Assembly Usage Disclaimer

Search Parameters

Manufacturer

Holdrite

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

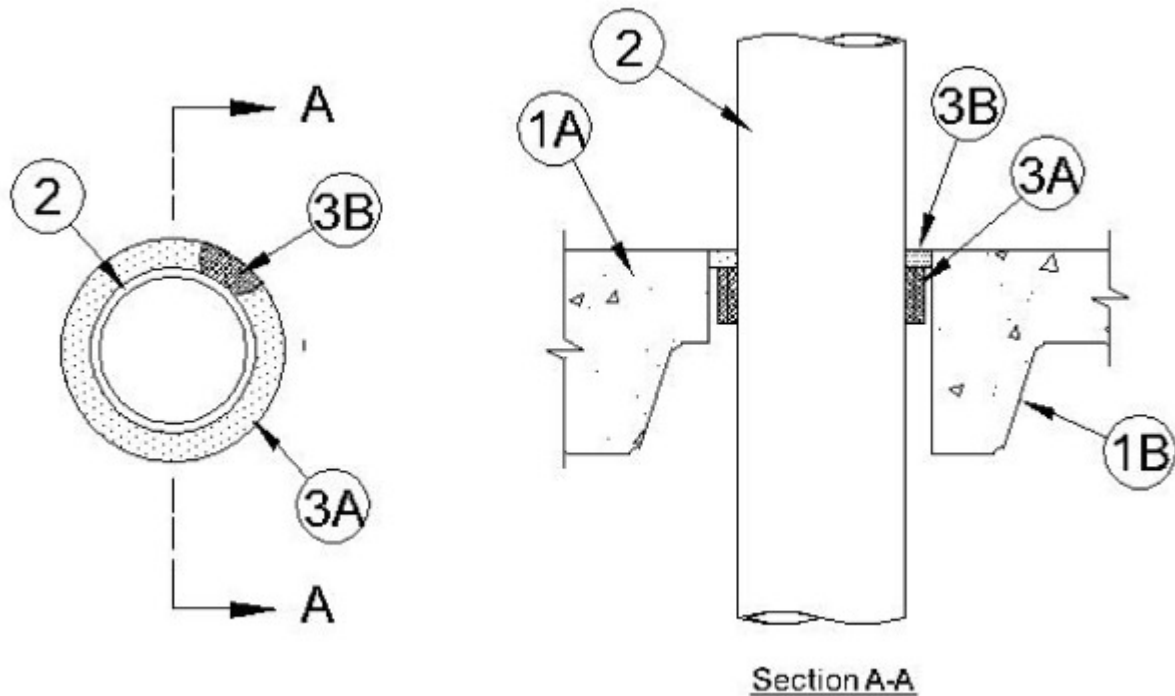
See General Information for Through-penetration Firestop Systems

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

System No. F-A-2303

February 05, 2019

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115	
F Rating — 2 Hr	F Rating — 2 Hr	
T Rating — 1 Hr	FT Rating — 1 Hr	
	FH Rating — 2 Hr	
	FTH Rating — 1 Hr	



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 — The fire-rated unprotected concrete and steel or concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf, 1600-2400 kg/m³) concrete.

B. Steel Floor and Form Units* — Composite or noncomposite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling design. Max diam of opening is 6 in. (152 mm).

1A. Floor Assembly — As an option, floor may be constructed of min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf, 1600-2400 kg/m³) concrete. Max diam of opening is 6 in. (152 mm).

2. Through Penetrants — One nonmetallic penetrant installed concentrically within the firestop system. The annular space between pipe and periphery of opening shall be 3/4 in. (19mm) for PVC-XFR and CPVC (Items 2A and B), minimum 3/8 in. (10 mm) to max 1-1/8 in. (29 mm) for PVC (Item 2C). Pipe to be rigidly supported on both sides of the floor assembly. The following types and sizes of nonmetallic pipes may be used:

A. Polyvinyl Chloride XFR (PVC-XFR) Pipe — Nom 4 in. (102 mm) diam Schedule 40 solid core PVC-XFR pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 4 in. (102mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. **Polyvinyl Chloride (PVC) Pipe** — Nom 4 in. (102 mm) diam Schedule 40 solid or cellular core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. **Firestop System** — The firestop system shall consist of the following:

A. **Fill, Void or Cavity Materials* — Wrap Strip** — Two layers of 2 in. (51 mm) wide, nom 1/4 in. (6 mm) thick intumescent elastomeric material. Wrap strips individually wrapped around nonmetallic pipe with ends butted and held in place with tape or tie wire. Butted ends in successive layers shall be offset. Wrap strip recessed 1/2 in. (13 mm) from bottom surface of concrete floor.

RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE HYDROFLAME — HydroFlame Wrap Strip

B. **Fill, Void or Cavity Material* — Caulk** — Min 1/2 in. (51 mm) thickness of sealant applied within the annulus, flush with top surface of steel deck or concrete floor.

RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE HYDROFLAME — HydroFlame 200

Configuration B: Not Shown (102 mm (4 in.) penetrants only).

A. **Fill, Void or Cavity Materials* —** Nom 2 mm thick by 76 mm (3 in.) wide intumescent joint strip tightly wrapped around the outer circumference of the pipe with ends butted and held in place with tape. Joint strip slid into the annular space with the top edge of the joint strip flush with the top surface of the floor. Four layers are to be used for nom 102 mm (4 in.) diam pipe.

RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE HYDROFLAME — HydroFlame Wrap Strip

B. **Fill, Void or Cavity Material* — Caulk** — Min 6 mm (1/4 in.) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall assembly.

RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE HYDROFLAME — HydroFlame 100, HydroFlame 200

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

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.

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2019 UL LLC".