

# THROUGH-PENETRATION FIRESTOP SYSTEM

[Assembly Usage Disclaimer](#)

## Search Parameters

Manufacturer

Holdrite

## XHEZ - Through-penetration Firestop Systems

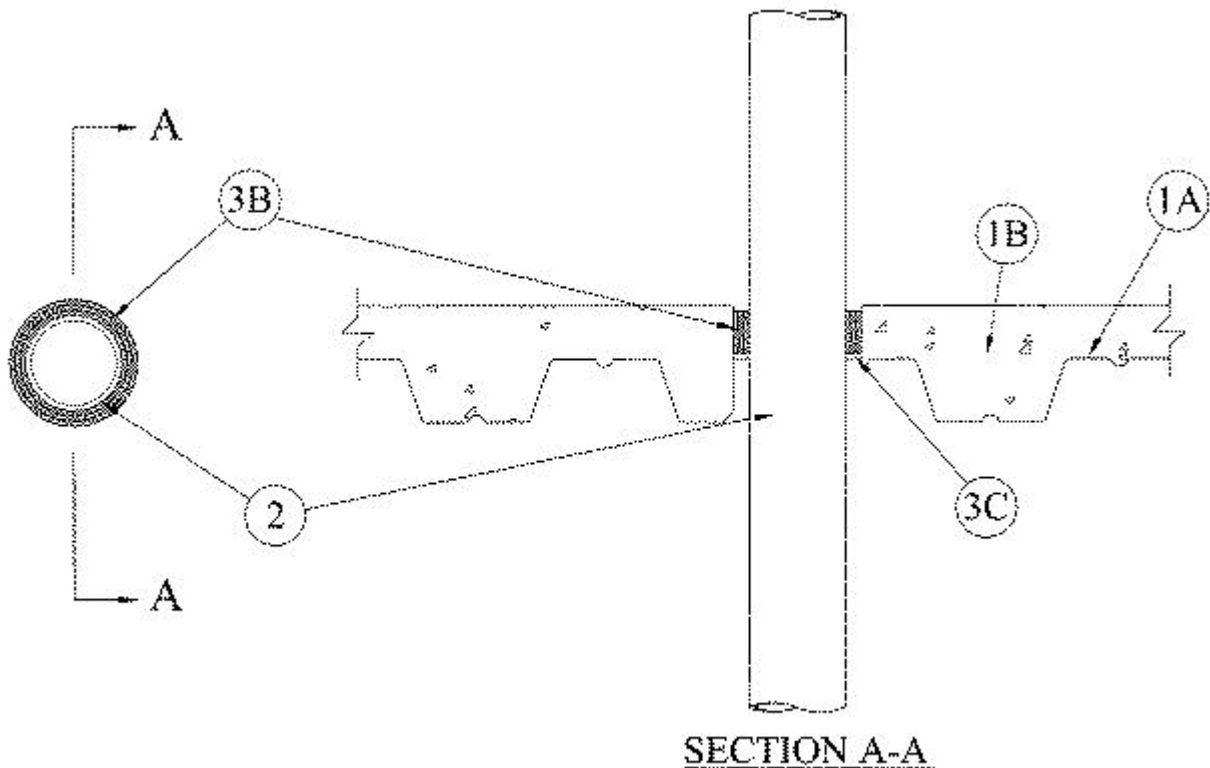
[See General Information for Through-penetration Firestop Systems](#)

### System No. F-A-2299

February 05, 2019

**F Rating — 2 Hr**

**T Rating — 0 Hr**



**1. Floor Assembly** — The fire-rated unprotected concrete and steel 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 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf) (1600-2400 kg/m<sup>3</sup>) concrete.

**B. Welded Wire Fabric** — 6 x 6 - W1.4 x W1.4

**C. Steel Floor and Form Units\*** — Composite or noncomposite 3 in. (76 mm) deep fluted galv units as specified in the individual Floor-Ceiling design. Max diam of opening core-drilled through floor assembly is 5 in. (127 mm)

**2. Through Penetrants** — One nonmetallic pipe to be centered within the firestop system. The annular space between pipe and periphery of opening shall be nom 3/4 in. (19 mm). Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipes may be used:

**A. Polyvinyl Chloride (PVC) Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

**B. Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe

for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

**C. Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 3 in. (76 mm) diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

**3. Firestop System** — The details of the firestop systems shall be as follows:

**A. Steel Sleeve** — (Optional - Not shown) — Nom 6 in. (152 mm) diam (or smaller) cylindrical sleeve formed from min 22 gauge sheet steel. Sleeve is installed by coiling sheet steel to a diam smaller than the through opening and allowing it to uncoil. Sleeve shall have a min 1 in. (25 mm) overlap along longitudinal seam and shall be cast or grouted into floor assembly. The sleeve shall be installed flush with the valley of the fluted deck and may be flush with or project a max 2 in. (51 mm) above top surface of the floor.

**B. Fill, Void or Cavity Materials\* - Wrap Strip** — Nom 1/4 in. (6 mm) thick by 2 in. (51 mm) wide intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe three times and slid into the annular space. When multiple strips are used to achieve the required total length, the ends are butted end to end and held in place with aluminum tape. The bottom edge of the wrap strip shall be positioned 1/4 in. (6 mm) above the crests of the steel floor units.

**RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE HYDROFLAME** — HydroFlame Wrap Strip

**C. Fill, Void or Cavity Materials\* - Caulk** — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, below the wrap strip, flush with the crests of the steel floor units.

**RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE HYDROFLAME** — 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.**

Last Updated on 2019-02-05

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- 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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