



System No. W-J-1220 XHEZ.W-J-1220 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

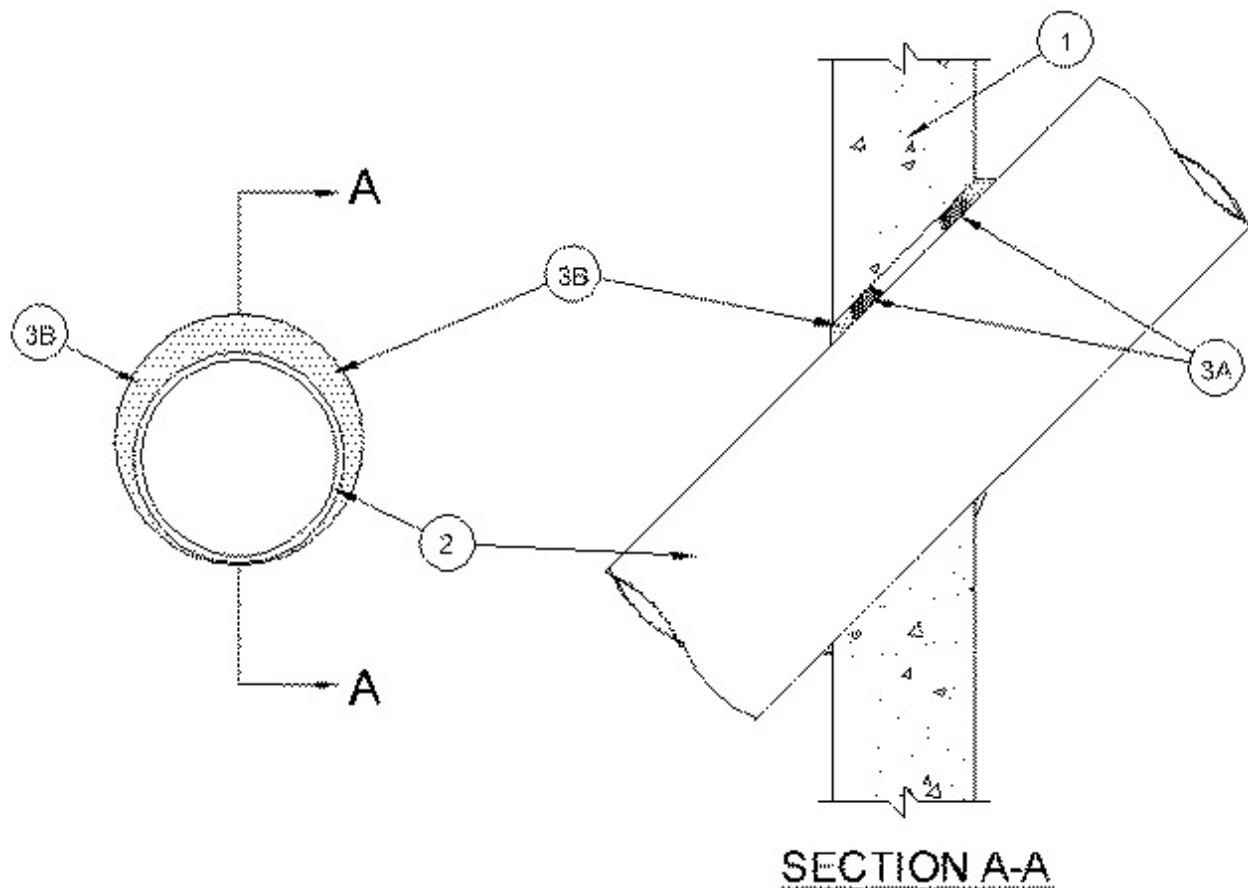
[See General Information for Through-penetration Firestop Systems](#)

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

System No. W-J-1220

June 14, 2016

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



1. Wall Assembly — Min 5 in. (127 mm) or 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete for 1 hr or 2 hr F Rating respectively. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 15-1/8 in. (384 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve — (Optional. Not shown.) Cylindrical sleeve fabricated from min 0.013 in. (0.33 mm) thick galv steel sheet and having a min 1 in. (25 mm) lap along the longitudinal seam. Ends of sleeve to be trimmed flush with both surfaces of wall. Sleeve to be installed by coiling the sheet metal to a diam smaller than the through opening, inserting the coil through the opening and releasing the coil to let it uncoil against the circular cutouts in the wall.

2. Through Penetrants — One metallic pipe, tubing or conduit to be installed either concentrically or eccentrically within the firestop system. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The pipe, tubing or conduit may be installed at an angle not greater than 45 degrees from the perpendicular. The diameter of the opening shall be 1-7/8 in. (48 mm) larger than the penetrant. The annular space shall be min 0 (point contact) to max 1-7/8 in. (48 mm). The following types and sizes of metallic pipe tubing or conduit may be used:

- A. **Steel Pipe** — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. **Iron Pipe** — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
- C. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) diam (or smaller) steel conduit.
- D. **Copper Tubing** — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
- E. **Copper Pipe** — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

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

A. **Packing Material** — Optional — Foam backer rod firmly packed into the opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — (Caulk)** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. When annular space exceeds 1/2 in. (13 mm), the min thickness of fill material is 5/8 in. (16 mm). Additional fill material to be installed such that a min 3/8 in. (10 mm) crown is applied at the pipe/concrete interface at the point contact location.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Intumescent Sealant, A/D FIREBARRIER Intumescent Sealant II

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

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