

XHEZ.C-AJ-1724 - THROUGH-PENETRATION FIRESTOP SYSTEMS

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

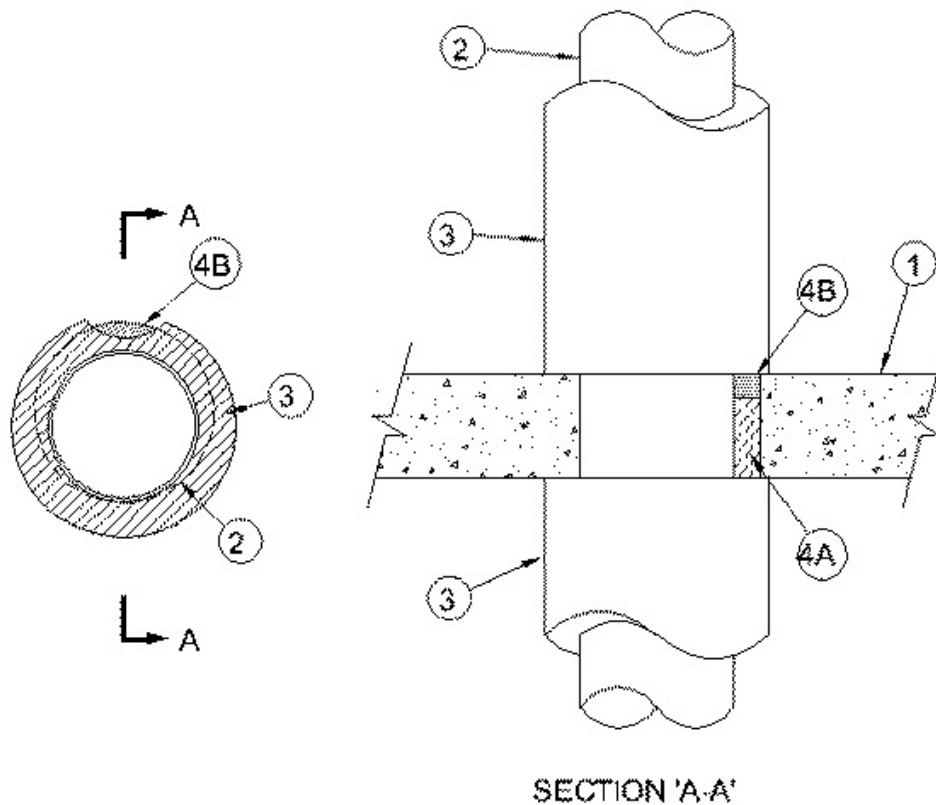
See General Information for Through-penetration Firestop Systems

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

System No. C-AJ-1724

May 15, 2019

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 3 Hr	F Ratings - 3 Hr
T Ratings - 1-3/4 and 2 Hr (See Item 2)	FT Ratings - 1-3/4 and 2 Hr (See Item 2)
	FH Ratings - 3 Hr
	FTH Ratings - FT Ratings - 1-3/4 and 2 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/sq ft	L Rating At Ambient - Less Than 5.1 L/s/m ²
L Rating At 400°F - Less Than 1 CFM/sq ft	L Rating At 204°C - Less Than 5.1 L/s/m ²



1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. Max diam of opening 14 in. (356 mm). When precast concrete units are used the max diam of opening is 7 in. (127 mm).

See **Concrete Blocks** (CAZT) and **Precast Concrete Units*** (CFTV) categories in Fire Resistance Directory for names of manufacturers.

2. **Through-Penetrant** — One metallic pipe or tubing installed concentrically or eccentrically within opening. Annular space between penetrant and periphery of opening shall be min of 0 in. (point contact) to max 1-1/4 in. (32 mm) for steel/iron through penetrants and max 2 in. (51 mm) for copper through penetrants. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used:

A. **Steel Pipe** — Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. **Steel Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

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.

When penetrant diameter is 4 in. (102 mm) or smaller the T Rating is 2 h. When penetrant diameter is greater than 4 in. (102 mm) the T Rating is 1-3/4 h.

3. **Pipe Covering Materials*** — (Partial Insulation) — Max 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of 4 pcf (64 kg/m³) (or heavier) and sized to fit the outside diam of pipe or tube. Pipe insulation installed around penetrant and shall extend 12 in. (305 mm) below floor and 36 in. (914 mm) above floor or 36 in. (914 mm) beyond both surfaces of wall. Pipe insulation secured with min 8 AWG steel wire spaced 12 in. (305 mm) OC. All longitudinal and transverse joints to be sealed with 4 in. (102 mm) wide aluminum foil tape.

INDUSTRIAL INSULATION GROUP L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc

4. **Firestop System** — The details of the firestop system shall be as follows:

A. **Packing Material** — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* - Sealant** — Min 1/2 in. (13 mm) thickness of sealant applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors of precast concrete units, sealant shall be installed symmetrically on both sides of the floor.

RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE HYDROFLAME — HydroFlame 100

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

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.

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