

XHEZ.C-AJ-1707 - 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

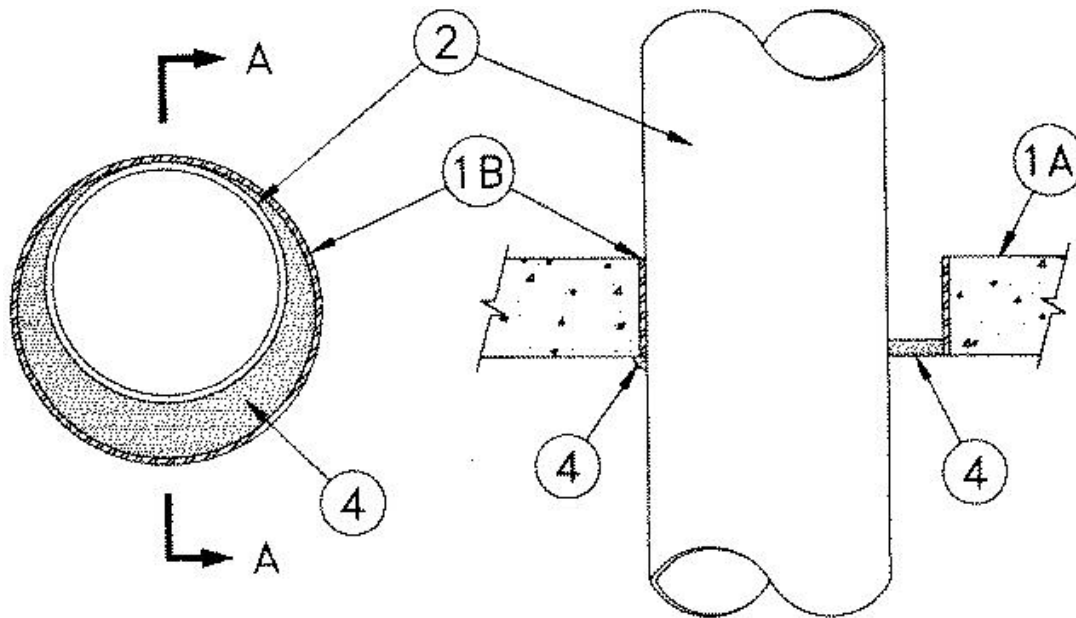
See General Information for Through-penetration Firestop Systems

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

System No. C-AJ-1707

April 23, 2019

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 and 3 Hr (See Item 4)	F Rating — 2 and 3 Hr (See Item 4)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 2 and 3 Hr (See Item 4)
L Rating At 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
W Rating - Class 1 (See Items 2 and 4)	L Rating At Ambient — Less Than 5.1 L/s/m ²
	L Rating At 204°C — Less Than 5.1 L/s/m ²



SECTION 'A-A'

1A. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced light weight 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 is 9-5/8 in. (254 mm). When precast concrete units are used the max diam of opening is 7 in. (178 mm).

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

1B. Metallic Sleeve — (Optional) - Nom 5 in. (127 mm) (or smaller), Schedule 10 (or heavier) steel pipe sleeve, cast or grouted into floor or wall assembly. Sleeve to be flush with floor or wall surfaces.

2. Through Penetrants — One metallic pipe or tubing to be installed concentrically or eccentrically into opening such that the annular space between the pipe and the periphery of the opening is min 0 in. (point of contact) to max value shown in table below. When W Rating applies, min annular space is 1/2 in. (13 mm). Pipe to be firmly supported on both sides of opening. The following types and sizes of pipes may be used:

A. **Steel Pipe** — Nom 8 in. (203 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) 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. Packing Material — (Not shown) Min 1 in. (25 mm) diam backer rod firmly pressed into opening as a permanent form. Forming material to be recessed by min depth of 1/2 in. (13 mm) from floor surface or both surfaces of wall.

4. Fill, Void, or Cavity Materials* - Caulk — Fill material applied within the annulus, flush with either the bottom or top surface of floor or one surface of the wall. When wall is constructed of concrete blocks, fill material shall be installed within the annular space on both sides of wall. A min 3/8 in. (10 mm) bead of the caulking material shall be applied, on the same side of the sealant in the annular space, at the point of contact of pipe and periphery of opening at bottom or top floor surface or at wall surface. In floors of precast concrete units, fill material shall be installed on the bottom side of the floor. For 3 Hr F and FH-ratings (see table below), an additional 1/4 in. (6 mm) of the caulk specified shall be applied around the entire circumference of the penetrant at the bottom or top floor surface or at wall surface. The fill material thickness is dependent on the hourly F and FH-ratings, the type and size of penetrant and type of fill material as tabulated below:

Type of Penetrant	Max Diam of Penetrant In. (mm)	Max Annular Space(In.)	Type of Fill Material	Thickness of Fill Material In. (mm)	F and FH-Ratings Hr
Steel or Iron Pipe	8 (203)	1 (25)	HydroFlame 100, HydroFlame 200	1/2 (13)	2
Copper Pipe, Copper Tube, Conduit	4 (102)	1 (25)	HydroFlame 100, HydroFlame 200	1/2 (13)	2
Steel or Iron Pipe	4 (102)	1/2 (13)	HydroFlame 200	3/4 (19)	2

Steel or Iron Pipe	8 (203)	1 (25)	HydroFlame 100, HydroFlame 200	1 (25)	3
Copper Pipe, Copper Tube, Conduit	4 (102)	1 (25)	HydroFlame 100, HydroFlame 200	1 (25)	3

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

W Rating applies only when HydroFlame 100 or HydroFlame 200 is used.

*** 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 2019-04-23

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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