



**System No. W-L-8075**  
**XHEZ.W-L-8075**  
**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**

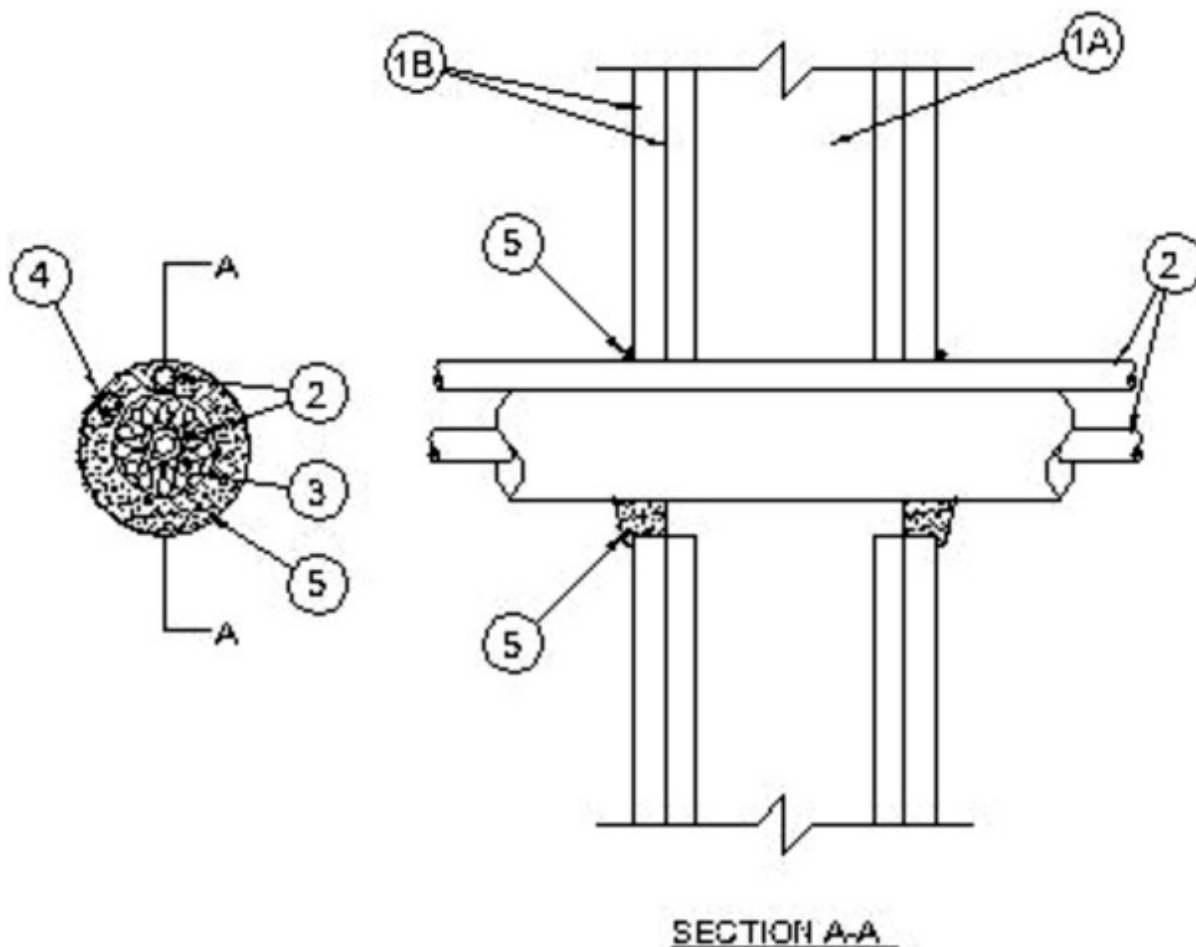
[See General Information for Through-penetration Firestop Systems](#)

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

**System No. W-L-8075**

June 08, 2016

<b>ANSI/UL1479 (ASTM E814)</b>	<b>CAN/ULC S115</b>
F Ratings — 1 and 2 Hr (See Item 1B)	F Ratings — 1 and 2 Hr (See Item 1B)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Item 1B)
	FTH Rating — 0 Hr



1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) O.C. with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) O.C.

B. **Gypsum Board\*** — 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 3-1/2 in. (89 mm).

**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Through Penetrant** — A max of two pipes or tubing to be installed within the opening. Of the two pipes, or tubing, only one of the pipes or tubing shall have a nom diam greater than 1/2 in. (13 mm). The annular space between pipes or tubing and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Pipes or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

- A. **Steel Pipe** — Nom 1 in. (25 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. **Iron Pipe** — Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe.
- C. **Copper Tubing** — Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.
- D. **Copper Pipe** — Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Tube Insulation — Plastics+** — Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on a max of one pipe or tubing. The annular space between penetrating item and periphery of opening shall be min 1/2 in. (13 mm) to max 3/4 in. (19 mm). The space between pipes or tubing shall be 0 in. (point contact)

See **Plastics+** (QMFZ2) category in the Recognized Component Directory for names for manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

4. **Cables** — One 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials. Cable to be spaced a min 0 in. (point contact) to max 1/2 in. (13 mm) from the other penetrants. The space between the cable and the periphery of the opening shall be a min 0 in. (point contact) to max 1/2 in. (13 mm) Cable to be rigidly supported on both sides of wall assembly.

**5. Fill, Void or Cavity Material\* — Sealant** — Min 1/2 in.(13 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. Additional fill material to be forced into intersties within groups of penetrating items to max extent possible and installed such that a min 1/4 in. (6 mm) thick crown is formed around the penetrating items and lapping 1/4 in. (6 mm) beyond the periphery of the opening.

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

+Bearing the UL Recognized Component Mark

**\* 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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