System No. W-J-8041
XHEZ.W-J-8041
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

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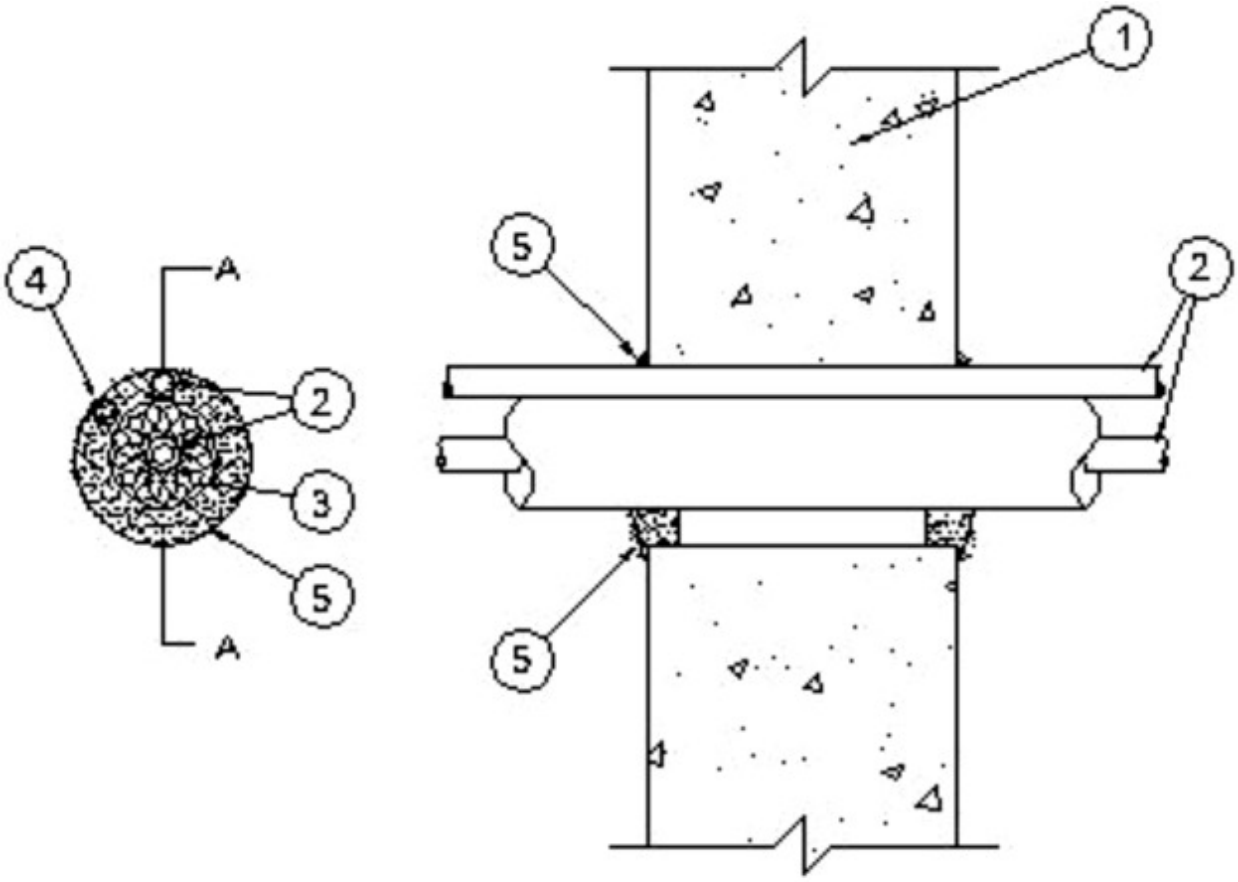
June 15, 2016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating —2 Hr
T Rating — 0 Hr	FT Rating —0 Hr
	FH Rating —2 Hr
	FTH Rating —0 Hr



SECTION A-A

1. **Wall Assembly —** Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf (1600-2400 kg/m^3)) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 3-1/2 in. (89 mm).

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

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. (12 mm) The annular space between pipes or tubing and periphery of opening shall be min 0 (point contact) to max 1/2 in. (12 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. (25mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 1 in. (25mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 1 in. (25mm) diam (or smaller) Type L (or heavier) copper tubing.

D. **Copper Pipe —** Nom 1 in. (25mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Tube Insulation — Plastics+ —** Nom 3/4 in. (20 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. (12 mm) into max 3/4 in. (20 mm). The space between pipes or tubing shall be 0 mm (point contact).

See **Plastics+** (QMFZ2) category in the Plastics 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 (point contact) to max 1/2 in. (12 mm) from the other penetrants. The space between the cable and the periphery of the opening shall be a min 0 (point contact) to max 1/2 in. (12 mm). Cable to be rigidly supported on both sides of wall assembly.

5. **Fill, Void or Cavity Material* — Sealant —** Min 1/2 in. (12 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. Additional fill material to be to be forced into interstices 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.**

Last Updated on 2016-06-15
