



System No. W-J-3163
XHEZ7.W-J-3163
Through-penetration Firestop Systems Certified for Canada

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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

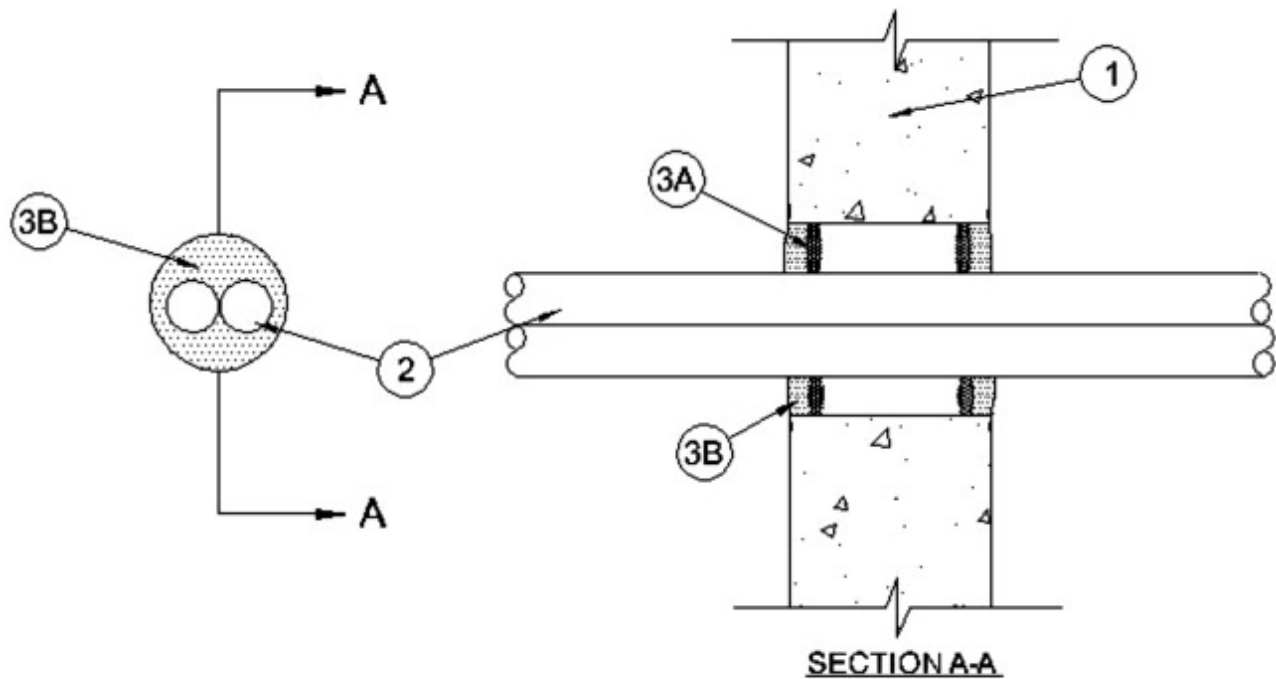
[See General Information for Through-penetration Firestop Systems](#)

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

System No. W-J-3163

June 15, 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 Ratings — 0, 1/4 and 1/2 Hr (See Items 2, 2A and 2B)	FT Ratings —0, 1/4 and 1/2 Hr (See Items 2, 2A and 2B)
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Item 1)
	FTH Ratings —0, 1/4 and 1/2 Hr (See Items 2, 2A and 2B)
	L Rating at Ambient —Less Than 1 CFM/sq ft



CONFIG. B

1. **Wall Assembly** — Min 5 in. (127 mm) or 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf (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 5 in. (127 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. (0.330 mm) thick (No. 30 gauge) to max 0.056 in. (1.42 mm) (No. 16 gauge) galv steel sheet and having a min 1 in. (25 mm) lap along the longitudinal seam. Ends of sleeve to be flush with both surfaces of wall. Cylindrical 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 cutout in the wall.

2. **Cables** — Max two service entrance cables, as described below to be installed either concentrically or eccentrically within the firestop system. Cables to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:

A. Max four aluminum conductor No. 2/0 AWG (or smaller) Type SER service entrance cable with cross-linked polyethylene insulation and PVC jacket. Max two cables bundled together within the firestop system. The annular space between the cables and the periphery of opening shall be min 1/2 in. (13 mm) to max 1-1/2 in. (38 mm).

B. Max four aluminum conductor No. 2/0 AWG (or smaller) aluminum **Metal Clad Cable+** — Max one metal clad cable within the firestop system. The diam of the opening shall be 1-1/4 in. (32 mm) greater than the diam of the penetrant. The annular space between the cable and the periphery of opening shall be min 1/4 in. (6 mm) to max 1 in. (25 mm).

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When cables in Item 2 are used, the T Ratings are 1/4 and 1/2 hr when installed in min 5 in. (127 mm) and 6 in. (152 mm) thick walls, respectively.

2A. **Through Penetrating Product*** — (Not Shown) As an alternate to Item 2, max one through-penetrating product to be installed either concentrically or eccentrically within the opening. The annular space between through-penetrating product and periphery of opening is min 1/4 in. (6 mm) to max 1 in. (25 mm). Through-penetrating product to be rigidly supported on both sides of wall assembly. The following types of through-penetrating products may be used:

A. Max four aluminum conductors No. 2/0 AWG (or smaller) aluminum **Armored Cable+** or **Metal-Clad Cable+**.

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B. Two or more twisted copper conductors No. 6 AWG (or smaller) **Power Limited Circuit Cable+** with or without a jacket under a metal armor.

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C. Two or more twisted copper conductors No. 10 AWG (or smaller) **Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor.

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D. Two or more twisted copper conductors No. 12 AWG (or smaller) **Non Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor.

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When cables in Item 2A are used, the T Ratings are 1/4 and 1/2 hr when installed in min 5 in. (127 mm) and 6 in. (152 mm) thick walls, respectively.

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

A. **Packing Material** — (Optional) - Foam backer rod firmly packed into 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 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min 3/8 in. (10 mm) crown is formed around the penetrating item and lapping 3/8 in. (10 mm) beyond the periphery of the opening. For cable bundle, additional fill material to be forced into interstices of cables to max extent possible.

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.**

+Bearing the UL Listing Mark

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