



**System No. W-J-7145**  
**XHEZ.W-J-7145**  
**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**

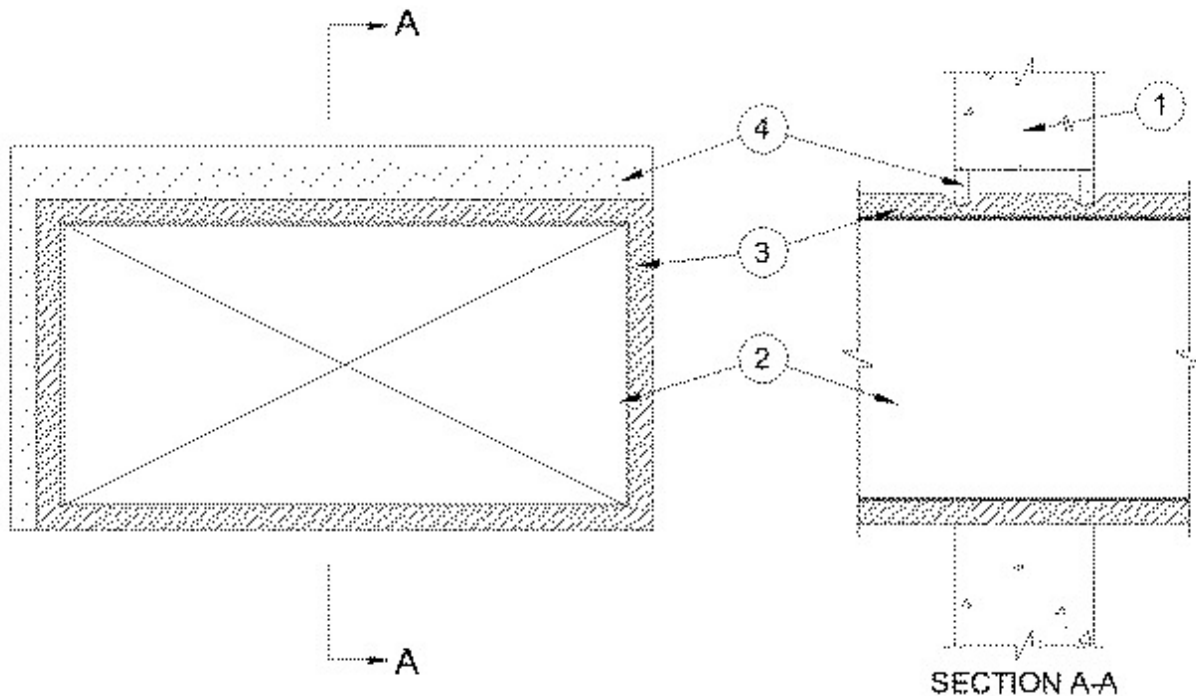
[See General Information for Through-penetration Firestop Systems](#)

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

**System No. W-J-7145**

June 02, 2016

<b>ANSI/UL1479 (ASTM E814)</b>	<b>CAN/ULC S115</b>
F Rating — 2 Hr	F Rating — 2 Hr
T Rating s— 0 and 1 Hr (See Item 4C)	FT Ratings —0 and 1 Hr (See Item 4C)
	FH Rating —2 Hr
	FTH Ratings —0 and 1 Hr (See Item 4C)



1. **Wall Assembly** — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max area of opening is 448 in<sup>2</sup> (2890 cm<sup>2</sup>) with max dimensions of 28 in. (711 mm).

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

2. **Steel Duct** — Max 12 by 24 in. (305 by 610 mm) by No. 24 gauge (or heavier) steel duct to be installed within the framed opening. Steel duct to be rigidly supported on both sides of the wall assembly.

3. **Batts and Blankets\*** — Nom 1-1/2 in. (38 mm) thick light density (min 0.75 pcf or 12 kg/m<sup>3</sup>) glass fiber blanket insulation jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. The annular space within the firestop system prior to installation of the fill material shall be min 0 in. (point contact) to max 2 in. (51 mm). During the installation of the fill material within the annular space, the batt or blanket shall be compressed 50%.

See **Batts and Blankets** (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread value of 25 or less and a Smoke Developed value of 50 or less may be used.

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

A. **Packing Material** — (Optional. Not shown.) — Foam backer rod friction fit into annular space and recessed from both surfaces of wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material\* - Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of the wall. During the installation of the fill material within the annular space, the batt or blanket duct insulation (Item 3) shall be compressed 50%. A min 1/4 in. (6 mm) bead of fill material shall be applied at point contact locations of the insulated duct/wall interface on both sides of the wall.

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

C. **Steel Retaining Channels** — (Not Shown) Required on sides of insulated duct where the annular space between the insulated duct and the framed opening is greater than 1 in. (25 mm). Min 3-5/8 in. (92 mm) by 1-1/4 in. (32 mm) by No. 30 gauge galv steel channels. During the installation of the channels, the batt or blanket duct insulation (Item 3) shall be compressed 50%. Channels to be placed over the compressed duct insulation with the fasteners piercing through the duct insulation and into the steel duct. Channels attached to the steel duct with min No. 10 by 1 in. (25 mm) long steel sheet metal screws in conjunction with min 1/2 in. (13 mm) diam steel washers spaced a max of 1 in. (25 mm) from each end of steel duct and spaced a max 6 in. (152 mm) OC. Channels to installed on both faces of wall and lap min 1-5/8 in. (41 mm) onto wall.

**The hourly T Rating of the firestop system is 1 hr except that when the steel retaining channel is used, the T Rating is 0 hr.**

**\* 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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