



System No. W-J-1301 XHEZ.W-J-1301 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

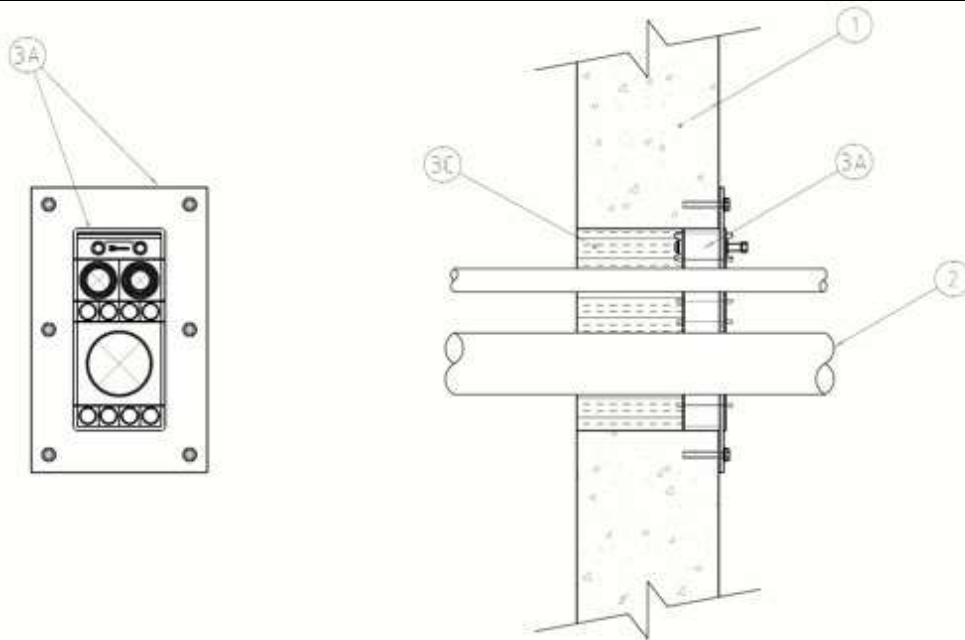
[See General Information for Through-penetration Firestop Systems](#)

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

System No. W-J-1301

September 11, 2018

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 3/4 Hr	FT Rating — 3/4 Hr
	FH Rating — 2 Hr
	FTH Rating — 3/4 Hr



1. **Wall Assembly** — Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Size of opening in concrete wall to be 5 mm (0.2 in.) larger than the outside dimensions of the device frame (Item 3A) excluding mounting flanges. Max area of opening within device frame is 52-1/4 in² (337 cm²) with max dimension of 11 in. (279.4 mm).

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

2. **Through Penetrants** — One or more metallic pipes or conduits to be installed within the firestop device (Item 3A). The aggregate cross sectional area of penetrants in device shall not exceed 36 percent of the area of the opening within the device frame (ie, 52-1/4 in² (337 cm²) for a G8x1 frame). Through penetrants to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes may be used:

A. **Stainless Steel Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 (or heavier) stainless steel pipe.

B. **Conduit** — Nom 3 in. (76 mm) diam (or smaller) rigid steel conduit.

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

A. **Firestop Devices*** — Firestop devices each consist of a rectangular steel frame, multi diameter elastomeric sealing modules, steel stay plates and a compression unit consisting of a Roxtec Wedge. The firestop device frame to be inserted into opening at either side of wall. Device frame mounting flange secured to face of wall with min 2-1/4 in. (57 mm) long steel concrete screws through the pre-drilled holes. The rectangular opening(s) of each device frame shall be filled with multiple rows of multi diameter elastomeric sealing modules with a max of one penetrant in a sealing module. The layers of the multi diameter sealing modules halves are removed symmetrically until a max gap of 0.04 in. (1 mm) is formed between the two module halves. The solid cylindrical cores of unpenetrated multi diameter sealing modules shall be left in place or "blank" (solid) sealing modules shall be used. During installation of the elastomeric sealing modules, thin steel stay plates shall be used to separate the rows of sealing modules and to retain the sealing modules within the steel frame. After installation of the modules, the bolts of the compression unit are tightened to form an effective seal around the through penetrants and insert modules. The firestop devices shall be installed in accordance with the accompanying installation instructions.

ROXTEC INTERNATIONAL AB — B-2x1, B-4x1, B-6x1, B-8x1, G-2x1, G-4x1, G-6x1, G-8x1, GH-2x1, GH-4x1, GH-6x1, GH-8x1, GH BG-2X1, GH BG-4X1, GH BG-6X1, GH BG-8X1, GHM-2x1, GHM-4x1, GHM-6x1, GHM-8x1, GHM BG-2X1, GHM BG-4X1, GHM BG-6X1, GHM BG-8X1, GOH-2x1, GOH-4x1, GOH-6x1, GOH-8x1, GKOH-2x1, GKOH-4x1, GKOH-6x1, GKOH-8x1, SF-2x1, SF-4x1, SF-6x1, SF-8x1

ROXTEC INC — B-2x1, B-4x1, B-6x1, B-8x1, G-2x1, G-4x1, G-6x1, G-8x1, GH-2x1, GH-4x1, GH-6x1, GH-8x1, GH BG-2X1, GH BG-4X1, GH BG-6X1, GH BG-8X1, GHM-2x1, GHM-4x1, GHM-6x1, GHM-8x1, GHM BG-2X1, GHM BG-4X1, GHM BG-6X1, GHM BG-8X1, GOH-2x1, GOH-4x1, GOH-6x1, GOH-8x1, GKOH-2x1, GKOH-4x1, GKOH-6x1, GKOH-8x1, SF-2x1, SF-4x1, SF-6x1, SF-8x1

B. **Fill, Void or Cavity Materials*** — (Not Shown.) — Minimum 2 mm diam beads of silicone sealant shall be applied as a gasket between the device frame mounting flange and the concrete wall around the entire perimeter of the opening. Min one bead shall be applied to each side of the mounting hole locations and around periphery of opening. In addition, a bead of sealant shall be applied around the periphery of the frame flange at the interface with concrete wall.

See **Fill, Void or Cavity Materials** (XHHW) in the Fire Resistance Directory for names of manufacturers.

C. **Packing Material** — Min 3-5/8 in. (92 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening against the device and flush with face of wall.

*** 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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