XHEZ.W-L-3114 - Through-penetration Firestop Systems

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

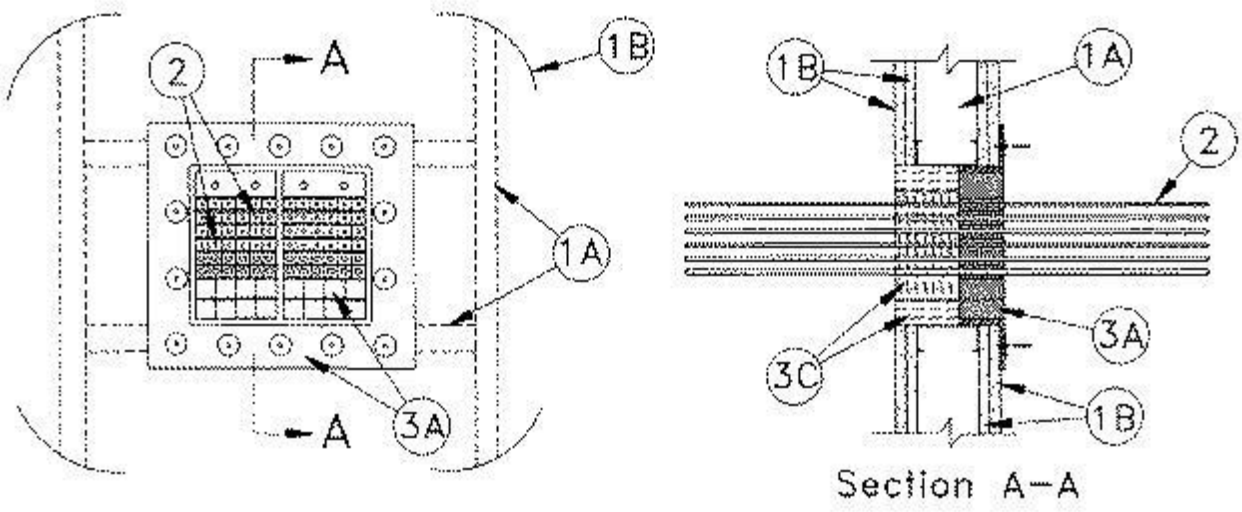
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-3114

March 01, 2016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Ratings —3/4 and 1 Hr (See Item 2)	FT Ratings — 3/4 and 1 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 1 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 3/4 and 1 Hr (See Item 2)
	L Rating At Ambient — Less Than 5.1 L/s/m^3
	L Rating At 400 F — Less Than 5.1 L/s/m^3



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

A. **Steel Studs —** Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members to be installed to form a rectangular box having dimensions which are max 1/4 in. (6 mm) greater than the width and height of the firestop device frame (Item 3A), excluding mounting flanges. Max area of framed opening is 105 sq in. (677 cm^2) (SF-6X2 Device). Max dimension of framed opening is 12 in. (305 mm) (SF-8 Device).

B. **Gypsum Board* —** One layer of nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall and Partition Design.

2. **Cables —** Cables to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:

A. Max 12 pair No. 22 AWG copper conductor communication cable with polyvinyl chloride insulation and jacket materials. **When max 12 pair No. 22 AWG communication cable is used, T Rating is 1 hr.**

B. Multiple fiber optical communication cables jacketed with polyvinyl chloride and having a max outside diam of 1/4 in. (6 mm). **When optical fiber communication cable is used, T Rating is 1 hr.**

C. Max 50 pair No. 24 AWG copper conductor communication cable with polyvinyl chloride insulation and jacket materials. **When max 50 pair No. 24 AWG communication cable is used, T Rating is 3/4 hr.**

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

A. **Firestop Devices* —** Firestop device consists of a rectangular steel frame, multi diameter elastomeric sealing modules, steel stay plates and a compression unit consisting of a ROX Wedge. The firestop device shall be inserted in the framed opening on one side of the wall assembly. The steel frame of the firestop device shall be secured to the steel stud framing of the wall assembly, through the gypsum wallboard layer, by means of No. 8 by min 2 in. (51 mm) long self-drilling, self-tapping steel screws and steel washers through holes spaced max 3-1/2 in. (89 mm) OC in the device frame mounting flange. The rectangular opening(s) of the device frame shall be filled with multiple rows of multi diameter elastomeric sealing modules with a max of one cable in each sealing module. The sheets of the multi diameter sealing modules halves are removed one by one until a max gap of 0.04 in. (1 mm) is formed between the two module halves. When the number of sealing modules exceeds the number of cables, the solid cylindrical cores of the 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 device shall be installed in accordance with the accompanying installation instructions.

ROXTEC INC — B-2x1, B-4x1, B-6x1, B-8x1, G-2X1, G-2X2, G-4X1, G-4X2, G-6X1, G-6X2, G-8X1, GH-2X1, GH-2X2, GH-4X1, GH-4X2, GH-6X1, GH-6X2, GH-8X1, GHM-2X1, GHM-2X2, GHM-4X1, GHM-4X2, GHM-6X1, GHM-6X2, GHM-8X1, GH BG-2X1, GH BG-2X2, GH BG-4X1, GH BG-4X2, GH BG-6X1, GH BG-6X2, GH BG-8X1, GHM BG-2X1, GHM BG-2X2, GHM BG-4X1, GHM BG-4X2,

GHM BG-6X1, GHM BG-6X2, GHM BG-8X1, GOH-2x1, GOH-4x1, GOH-6x1, GOH-8x1, GKOH-2x1, GKOH-4x1, GKOH-6x1, GKOH-8x1, SF-2X1, SF-2X2, SF-4X1, SF-4X2, SF-6X1, SF-6X2, SF-8X1

ROXTEC INTERNATIONAL AB — B-2x1, B-4x1, B-6x1, B-8x1, G-2X1, G-2X2, G-4X1, G-4X2, G-6X1, G-6X2, G-8X1, GH-2X1, GH-2X2, GH-4X1, GH-4X2, GH-6X1, GH-6X2, GH-8X1, GHM-2X1, GHM-2X2, GHM-4X1, GHM-4X2, GHM-6X1, GHM-6X2, GHM-8X1, GH BG-2X1, GH BG-2X2, GH BG-4X1, GH BG-4X2, GH BG-6X1, GH BG-6X2, GH BG-8X1, GHM BG-2X1, GHM BG-2X2, GHM BG-4X1, GHM BG-4X2, GHM BG-6X1, GHM BG-6X2, GHM BG-8X1, GOH-2x1, GOH-4x1, GOH-6x1, GOH-8x1, GKOH-2x1, GKOH-4x1, GKOH-6x1, GKOH-8x1, SF-2X1, SF-2X2, SF-4X1, SF-4X2, SF-6X1, SF-6X2, SF-8X1

B. **Silicone RTV Sealant —** (Not Shown) — A min 1/4 in. (6 mm) diam bead of silicone RTV sealant shall be applied as a gasket between the device frame mounting flange and the gypsum wallboard. The sealant bead shall be located between the edge of the opening and the line of fasteners around the entire perimeter of the framed opening.

B1. **Butyl Rubber Gasket —** (Not Shown) — As an alternate to the RTV sealant, a nom 5/16 in. (8 mm) thick by 5/16 in. (8 mm) wide butyl rubber gasket with self-adhesive may be installed around the mounting flange. The gasket shall be recessed in approx 1/2 in. (13 mm) and 2 in. (51 mm) from the perimeter of the device frame mounting flange such that the continuous gasket bracket the line of fasteners along each side of the device.

C. **Packing Material —** Pieces of min 1-1/2 in. (38 mm) thick 4 pcf (64 kg/m^3) density mineral wool batt insulation cut to line four sides of through opening within wall cavity. Pieces cut to length and tightly friction-fit between framing of wall opening and cables.

* 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 2016-03-01