UL Product iQ™

XHEZ7.W-N-8002 - Through-penetration Firestop Systems Certified for Canada

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.

Through-penetration Firestop Systems Certified for Canada

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

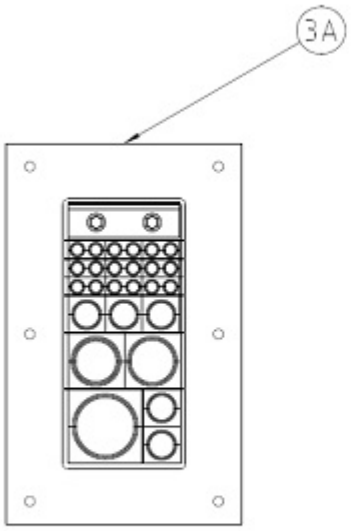
See General Information for Through-penetration Firestop Systems

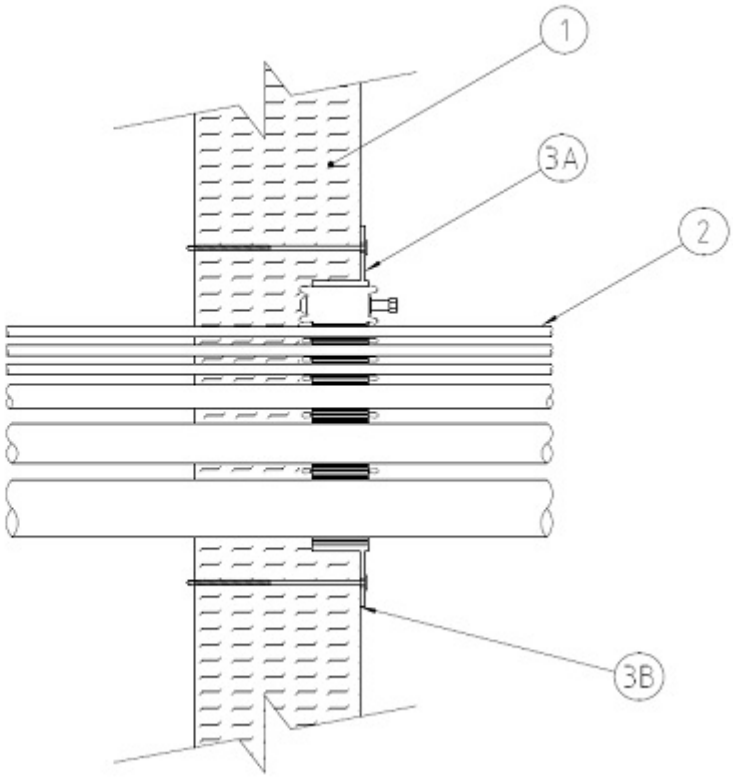
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-N-8002

June 16, 2021

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 3/4, 1 and 1-1/4 Hr (See Item 2)	FT Ratings — 3/4, 1 and 1-1/4 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM per Device	FH Rating — 2 Hr
L Rating At 400°F — Less Than 1 CFM per Device	FTH Ratings — 3/4, 1 and 1-1/4 Hr (See Item 2)
	L Rating At Ambient — Less Than 0.5 L/s Per Device
	L Rating At 204°C — Less Than 0.5 L/s Per Device





1. **Partition Panel Units* —** The 2 hr fire rated composite wall assembly shall be constructed of nom 6 in. (152 mm) thick coated steel faced **Partition Panel Units*** (CJMR) installed in the manner specified in Wall and Partition Design No. U059 in the Fire Resistance Directory. Panel cutout sized to fit the rectangular outer dimensions and depth of recessed device sleeve. Max size of panel cutout is 6 by 12-13/64 in. (152.5 by 310 mm). Panel cutout of steel skin is required at both sides of opening. As an option, the steel skin cutout on side of wall opposite firestop device can be smaller and of sufficient size to accommodate the passing of the through penetrants. Panel cutout shall extend into the insulation core of the panel at one side of wall to accommodate the depth of the recessed firestop device sleeve. Opening can be located on or off panel unit joints. After installation of firestop device and through penetrants, retained cutout pieces of the insulation core are used to tightly fill any visible voids between and around the penetrant to be flush with face of wall.

DURASYSTEMS BARRIERS INC — DuraWall Panels

2. **Through-Penetrants —** Within the loading area for the firestop device, the penetrants may represent a 0 to 100 percent visual fill. Penetrants to be installed through the firestop device and the insulation core of the partition panel to pass through the opening. Penetrants to be rigidly supported on both sides of wall assembly.

A. **Cables —** The following cable types may be used:

A1. Max 750 kcmil (or smaller) copper conductor shielded or unshielded power cable with polyvinyl chloride (PVC) jacket and ethylene-propylene rubber (EPR) insulation. **When this cable is used, the T, FT and FTH Ratings are 1 hr.**

A2. Max 24 pair No. 16 AWG (or smaller) copper conductor shielded or unshielded instrumentation cable with polyvinyl chloride insulation and jacket materials. **When this cable is used, the T, FT and FTH Ratings are 1-1/4 hr.**

A3. Max 8 pair No. 16 AWG (or smaller) copper conductor shielded or unshielded instrumentation cable with polyvinyl chloride insulation and jacket materials. **When this cable is used, the T, FT and FTH Ratings are 1 hr.**

A4. Max 24 fiber, fiber optic cable with polyvinyl chloride jacket and insulation. **When this cable is used, the T, FT and FTH Ratings are 1-1/4 hr.**

A5. Max 4 pair No. 24 AWG (or smaller) Cat 5E cables with PVC jacket and insulation. **When this cable is used, the F, FT and FTH Ratings are 1-1/4 hr.**

A6. Max 4 pair No. 23 AWG (or smaller) Cat 6 cables with PVC jacket and insulation. **When this cable is used, the F, FT and FTH Ratings are 1-1/4 hr.**

A7. Max 24 fiber interlocking armored Fiber Optic Cable with polyvinyl chloride jacket and insulation. **When this cable is used, the T, FT and FTH Ratings are 1-1/4 hr.**

B. **Metallic Penetrants —**The following types and sizes of metallic penetrants may be used:

B1. Nom 2 in. (51 mm) diam (or smaller) Sch 40 steel conduit. **When this conduit is used, the T, FT and FTH Ratings are 3/4 hr.**

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

A. **Firestop Devices* —** Firestop devices each consist of a rectangular steel frame with integral flange, multi diameter elastomeric sealing modules, steel stay plates and a compression unit consisting of a Roxtec Wedge. Firestop device frame shall be installed into the panel cutout at one side of wall with the flange of device installed flush against steel skin of partition panel. The rectangular packing area of each frame shall be filled with multiple rows of multi diameter elastomeric sealing modules with a max of one cable in each sealing module. The layers of the multi diameter sealing module 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 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. Firestop device secured in place with min 1/4 in. (6 mm) diam by min 6-1/2 in. (165 mm) long washer head lag screws within each preformed hole in device flange around periphery of opening and extending through full thickness of partition panel. 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 Material* — Sealant —** Nom 3/8 in. (10 mm) bead of fill material applied around the periphery of the firestop device frame flange at the interface with the steel skin of the partition panel. In addition, for L Rating, sealant shall be applied on the device frame flange to seal each screw head location and at the panel seam.

See **Fill, Void or Cavity Material** (XHHW) category in the Fire Resistance Directory for the names of manufacturers. Any sealant or caulk material meeting the above specification and bearing the UL Classification Marking may be used.

*** 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 2021-06-16