



System No. W-L-7249

XHEZ.W-L-7249

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

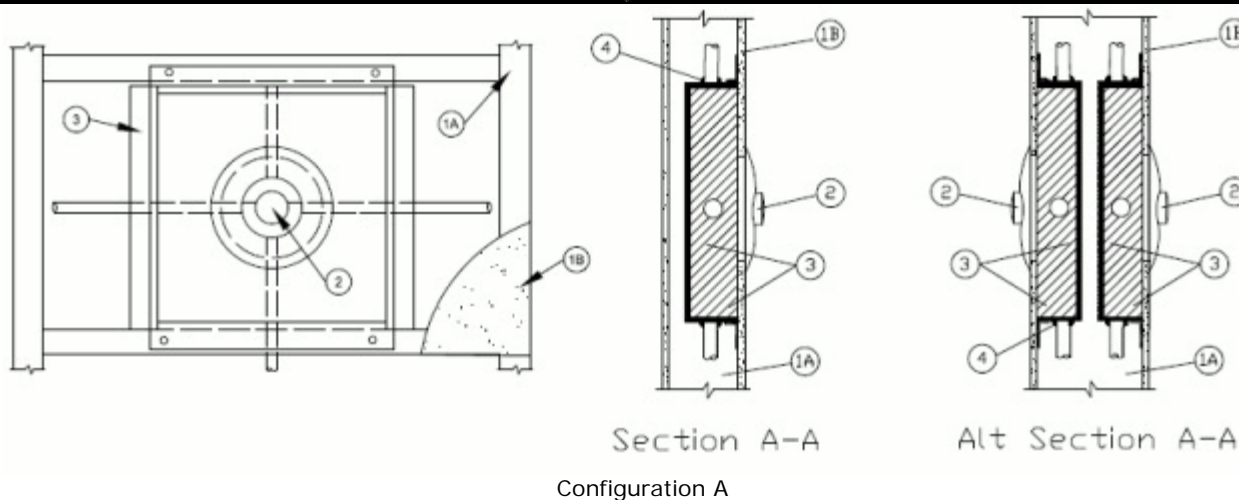
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

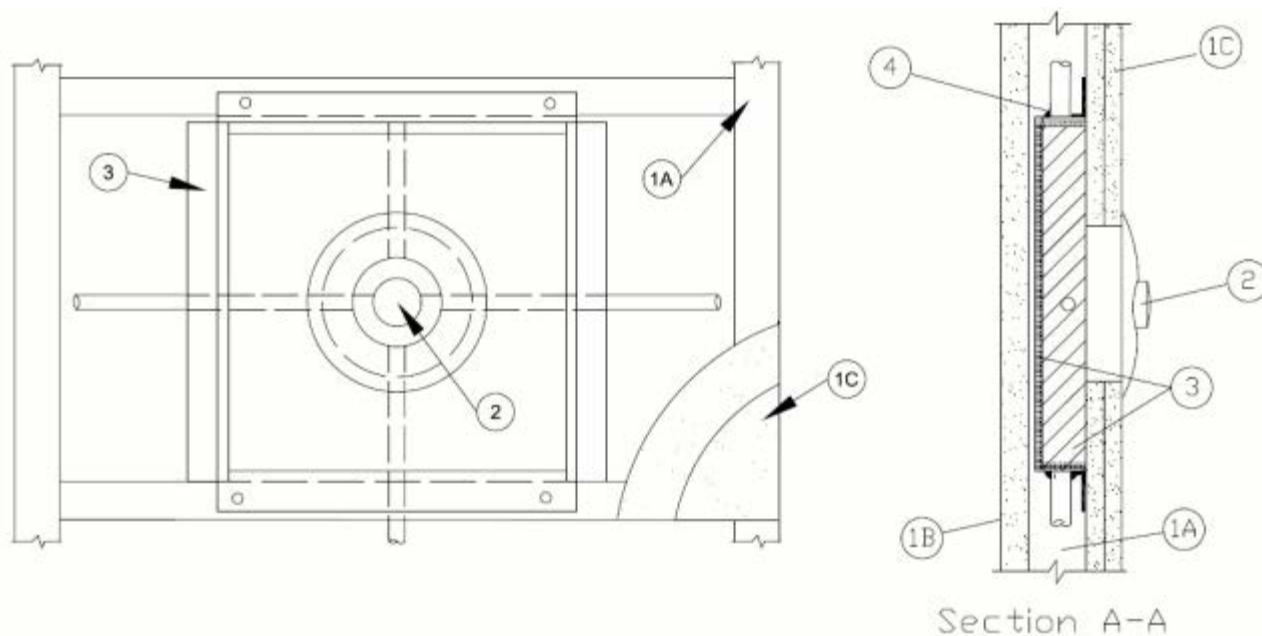
[See General Information for Through-penetration Firestop Systems](#)[See General Information for Through-penetration Firestop Systems Certified for Canada](#)

System No. W-L-7249

November 27, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Ratings — 1 and 2 Hr (See Items 1 and 3)	FT Ratings — 1 and 2 Hr (See Items 1 and 3)
	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
	FTH Ratings — 1 and 2 Hr (See Items 1 and 3)





Configuration B

1. Wall Assembly (Configuration A) — The 1 or 2 hr fire rated framed gypsum board wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400, or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing shall consist of steel channel studs or wood studs. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC. Wood studs to be min 2 by 4 in. (51 by 102 mm) or larger and spaced max 16 in. (406 mm) OC. Additional horizontal framing members or steel angles shall be used within the wall cavity to support the top and bottom of the steel box (Item 3). The steel angles shall be min 1 by 2 in. (25 by 51 mm) by 25 ga with either leg flush against the box. Angles shall be secured at each end to the wall studs. Stud width sized to allow min 3/8 in. (10 mm) between back of the box and the back of the gypsum on the opposite side of wall. For back to back boxes, stud width to be min 6 in. wide to allow min 1/2 in. (13 mm) between boxes.

B. Gypsum Board* — The gypsum board type, thickness, number of layers and orientation shall be, as specified in the individual Wall and Partition Design. The diameter of cutout made to accommodate shower valve (Item 3) is to be no less than 1 in. (25 mm) smaller than the diameter of the escutcheon plate. The maximum diameter of the opening is 5 in. (127 mm).

The hourly F, T, FT, FH and FTH Ratings of the firestop system are equal to the hourly fire rating of the wall in which the firestop system is installed.

1A. Shaft Wall Assembly (Configuration B) — The 1 or 2 hr fire-rated gypsum board/stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

A. Steel Studs — "C-H" shaped studs, min 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min No. 25 gauge galv steel, spaced max 24 in. (610 mm) OC. When Barri-Box (Item 3) depth exceeds 1.5 in. (38 mm), min stud width shall be 4 in. (102 mm). Additional horizontal framing members or steel angles shall be used within the wall cavity to support the top and bottom of the steel box (Item 3). The steel angles shall be min 1 by 2 in. (25 by 51 mm) by 25 ga with either leg flush against the box. Angles shall be secured at each end to the wall studs.

B. Gypsum Board* — 1 in. (25 mm) thick, 24 in. (610 mm) wide gypsum liner panels installed vertically. Max diam of opening is 5 in. (127 mm).

C. Gypsum Board* — One or two layers of min 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in. (127 mm).

The hourly F, T, FT, FH and FTH Ratings of the firestop system are equal to the hourly fire rating of the wall in which the firestop system is installed.

2. **Tub and Shower Valve** — Single-handled tub/shower valve assembly including escutcheon plate with nonmetallic/nonferrous and stainless steel materials connected to nom 1/2 in. (13 mm) copper, brass, iron, Crosslink Polyethylene (PEX), or solid or cell core Polyvinyl Chloride (PVC) supply pipes/tubes. Nom 7 in. (178 mm) escutcheon plate to lap min 1 in. (25 mm) beyond periphery of opening. The firestop system shall comply with the Table in Item 3 below.

3. **Fill, Void or Cavity Materials* - Membrane protective** — Max 10 in. (254 mm) wide by max 10 in. (254 mm) high by max 3 1/4 in. (83 mm) deep, prefabricated steel box with integral insulation assembly, cutouts made in the top, bottom and vertical sides mat to accommodate the pipes or tubes to be max 1/4 in. (6 mm) larger than outside diam of pipe or tube. Bottom, top and/or sides of steel box may be penetrated by up to a total of four max 1/2 in. (13 mm) diam copper, steel, iron, or Crosslink Polyethylene (PEX), solid or cell core Polyvinyl Chloride (PVC) pipes or tubes. Boxes can be installed back to back when specified in the Table below. Box to be secured to top and bottom framing members or angle supports with min two No. 8 or larger wafer screws at each flange. The firestop system shall comply with the Table below.

FIRE SHIELD LLC — Barri-Box

Wall Assembly	Hourly Rating	Back to Back Boxes Permitted?	Max Box Size W x H x D	Pipes/Tubes
Config A	1	No	10 x 10 x 3-1/4 in. (254 x 254 x 83 mm)	copper, brass, or iron
Config A	1	Yes	8 x 8 x 2-3/4 in. (203 x 203 x 70 mm)	copper, brass, iron, PEX, or PVC
Config A	2	No	8 x 8 x 2-3/4 in. (203 x 203 x 70 mm)	copper, brass, iron, PEX, or PVC
Config B	1 and 2	No	8 x 8 x 2-3/4 in. (203 x 203 x 70 mm)	copper, brass, iron, PEX, or PVC

4. **Fill, Void or Cavity Materials* - Caulk or Sealant** — (Not Shown) - A min of 1/4 in. (6 mm) caulk fill material shall be used to completely fill each circular cutout made in the mat material to accommodate a pipe or tube. A min 1/2 in. (13 mm) bead of fill material shall be applied around periphery of each nonmetallic pipe or tube at the entry into the box. A min 1/4 in. (6 mm) bead of fill material shall be applied around periphery of each metallic pipe or tube at the entry into the box.

3M COMPANY 3M FIRE PROTECTION PRODUCTS — Type CP 25WB+ Caulk, FB-3000WT Sealant

* 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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