

# XHEZ.W-J-3249 - 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

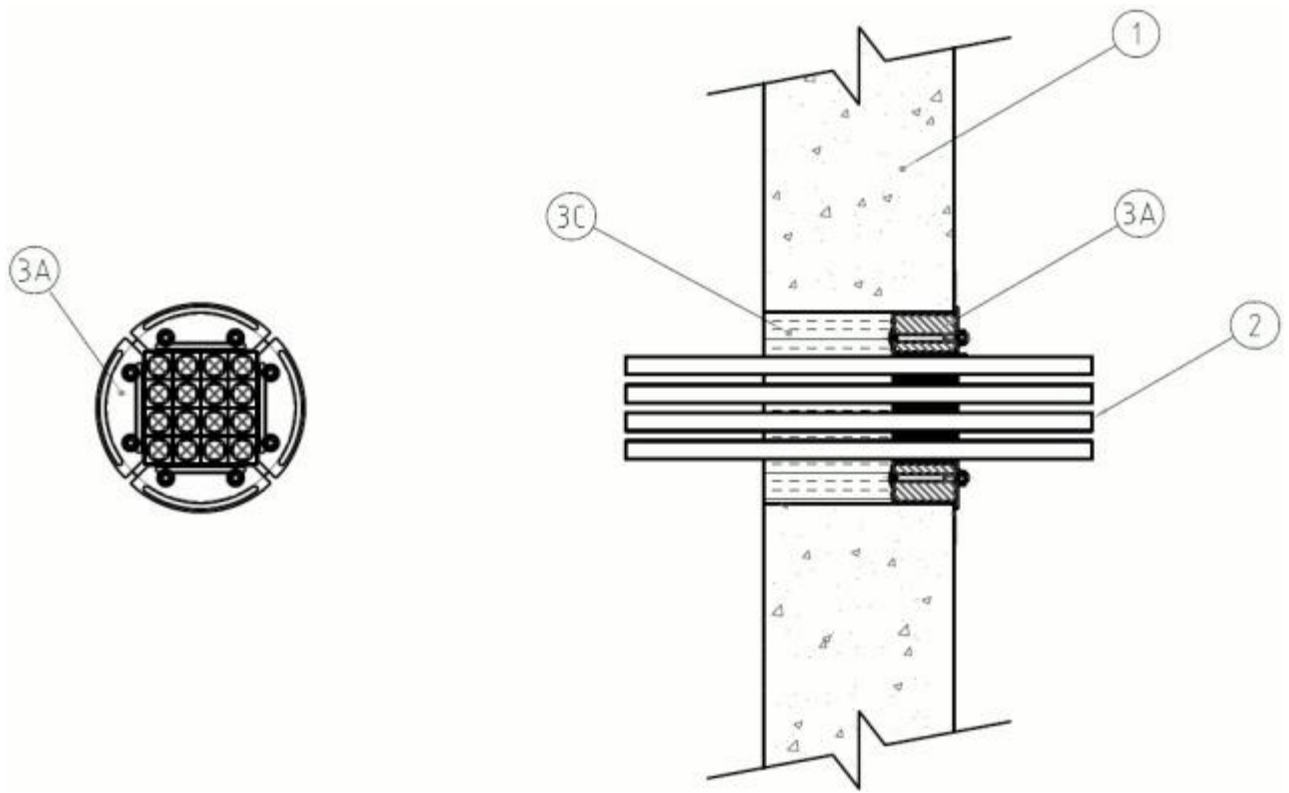
[See General Information for Through-penetration Firestop Systems](#)

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

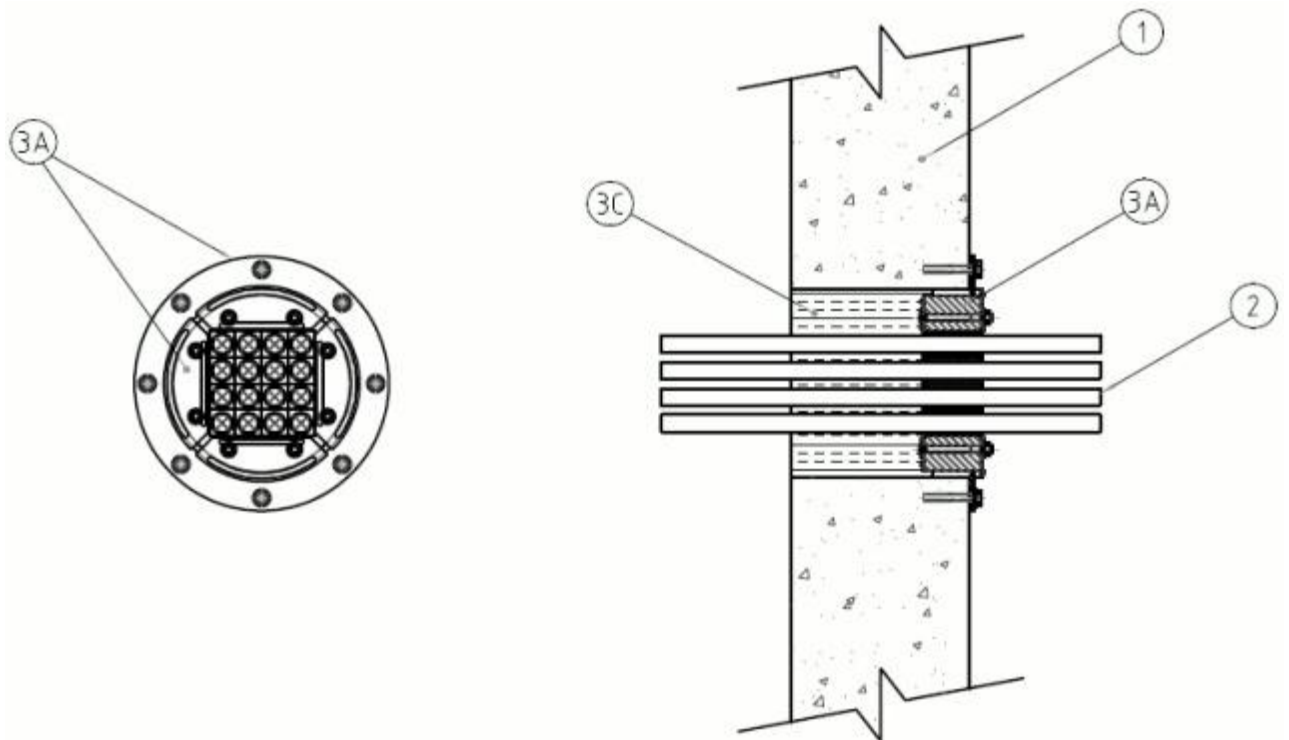
### System No. W-J-3249

May 01, 2020

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating —2 Hr	F Rating —2 Hr
T Ratings —0, 3/4,1-1/2 and 2 Hr (See Items 2 and 3)	FT Ratings — 0, 3/4,1-1/2 and 2 Hr (See Items 2 and 3)
	FH Rating —2 Hr
	FTH Ratings — 0, 3/4,1-1/2 and 2 Hr (See Items 2 and 3)



CONFIGURATION A



CONFIGURATION B

1. **Wall Assembly** — Min 5 in. (127 mm) thick 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 diameter of opening is 8 in. (202 mm) (R-200 Device).

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

2. **Cables** — Within the loading area for each firestop device module the cables may represent a 0 to 100 percent visual fill. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of cables may be used:

A. Max 3/C No. 14 AWG MC type copper conductor power cable with XLP insulation and PVC jacket materials. **When max 3/C No. 14 AWG copper conductor power cable is used, the T, FT and FTH Ratings are 2 hr.**

B. Max 2/C No. 14 AWG metal clad or Tech 90 type copper conductor control power cable with XLP insulation and PVC jacket materials. **When max 2/C No. 14 AWG copper conductor control power cable is used, the T, FT and FTH Ratings are 2 hr.**

C. Max 4/C No. 8 AWG copper conductor power cable with Crosslinked Polyolefin insulation and Neoprene jacket materials. **When max 4/C No. 8 AWG copper conductor power cable is used, the T, FT and FTH Ratings are 3/4 hr.**

D. Max 19/C No. 14 AWG TC or TC-ER type copper conductor control power cable with Ethylene Propylene Rubber insulation and Chlorinated Polyethylene (CPE) jacket materials. **When max 19/C No. 14 AWG copper conductor control power cable is used, the T, FT and FTH Ratings are 1-1/2 hr.**

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

A. **Firestop Devices\*** — Circular firestop device for use in predrilled or preformed openings intended to be installed in accordance with the accompanying installation instructions. The firestop device shall be inserted into the opening and friction fit on one side of the wall assembly (Configuration A). Each device consists of an elastomeric insert, steel compression plate and multi diameter elastomeric sealing module(s). The square opening of each 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 modules halves are removed one by one until a gap of 0.04 in. (1 mm) is formed between the two module halves. After installation of the modules into the device, the nuts of the compression plate are tightened to form an effective seal around the cables. Alternatively, the firestop device may be inserted into its corresponding steel flanged sleeve (Configuration B) and secured to the wall by means of 3/8 in. (10 mm) diam by min 1-3/4 in. (44 mm) long steel anchor bolts in conjunction with nuts and steel washers through the pre-drilled holes spaced max at 90° intervals in the device frame mounting flange.

**ROXTEC INTERNATIONAL AB** — Types R-70, R-75, R-100, R-125, R-127, R-150, R-200 and their corresponding flanges SLFR70, SLFR75, SLFR100, SLFR125, SLFR127, SLFR150 and SLFR200.

**ROXTEC INTERNATIONAL AB** — Types R-70 ES, R-75 ES, R-100 ES, R-125 ES, R-127 ES, R-150 ES, R-200 ES and their corresponding flanges SLFR70, SLFR75, SLFR100, SLFR125, SLFR127, SLFR150 and SLFR200.

\* **Where RM EM B or RM PE B elastomeric sealing modules are used, the T, FT and FTH Ratings are 0 Hr.**

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 wall. The sealant bead shall be located between the edge of the opening and the line of fasteners around the entire perimeter of the 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 3 in. (76 mm) thick 2.76 pcf (44 kg/m<sup>3</sup>) 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 and in-between cables and made flush with wall surface.

**\* 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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