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

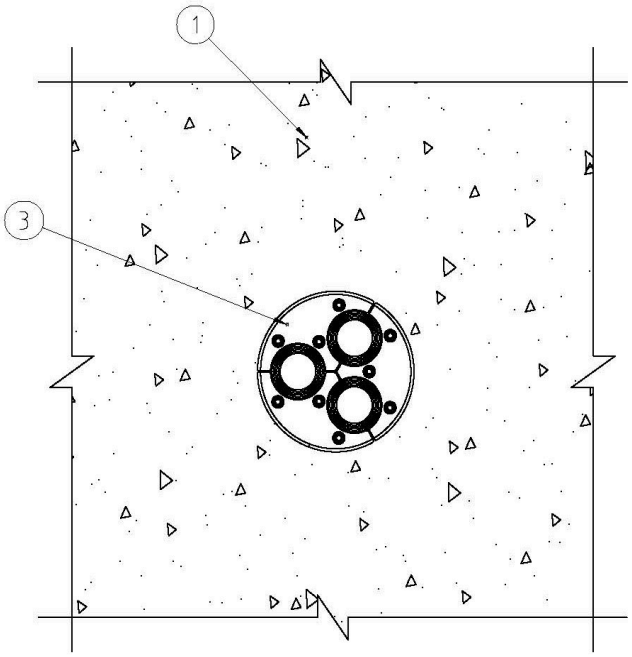
See General Information for Through-penetration Firestop Systems

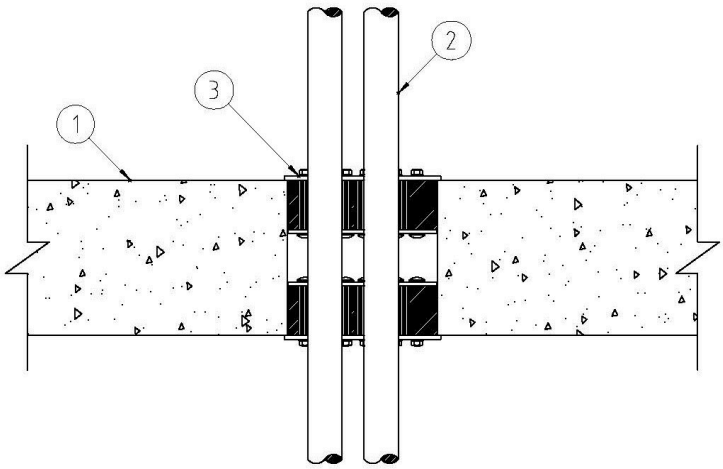
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-BJ-3052

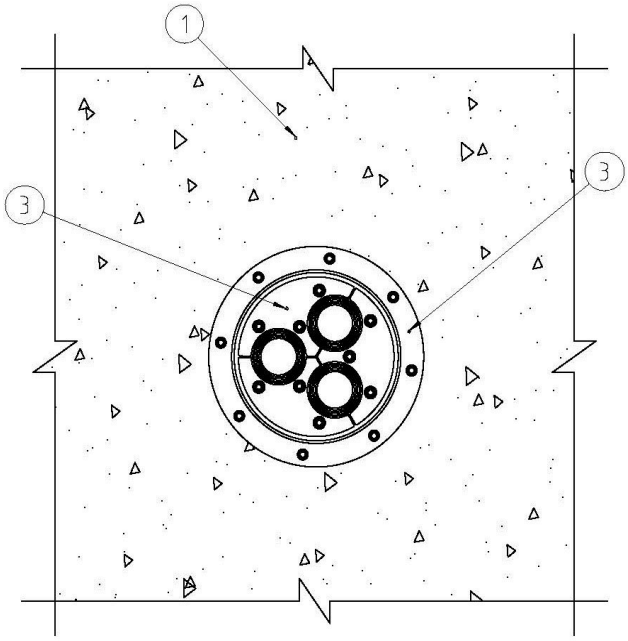
November 20, 2025

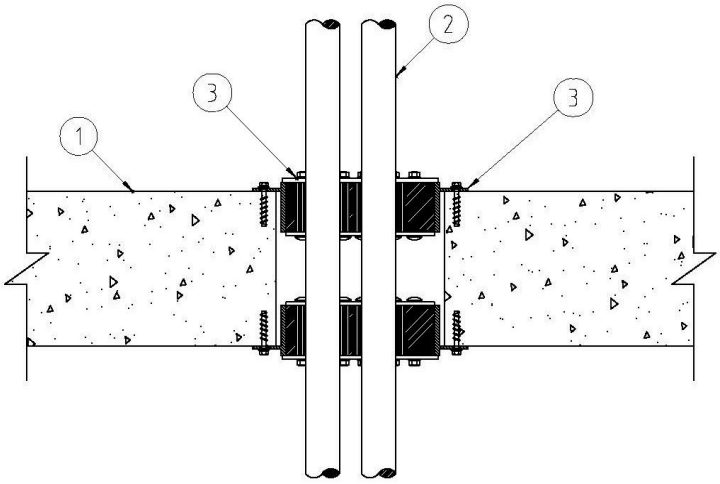
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Ratings — ½, ¾, 1-1/4, 1-1/2 Hr (See Item 2)	FT Ratings — ½, ¾, 1-1/4, 1-1/2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM per Device	FH Rating — 3 Hr
L Rating At 400° F — Less Than 1 CFM per Device	FTH Ratings — ½, ¾, 1-1/4, 1-1/2 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



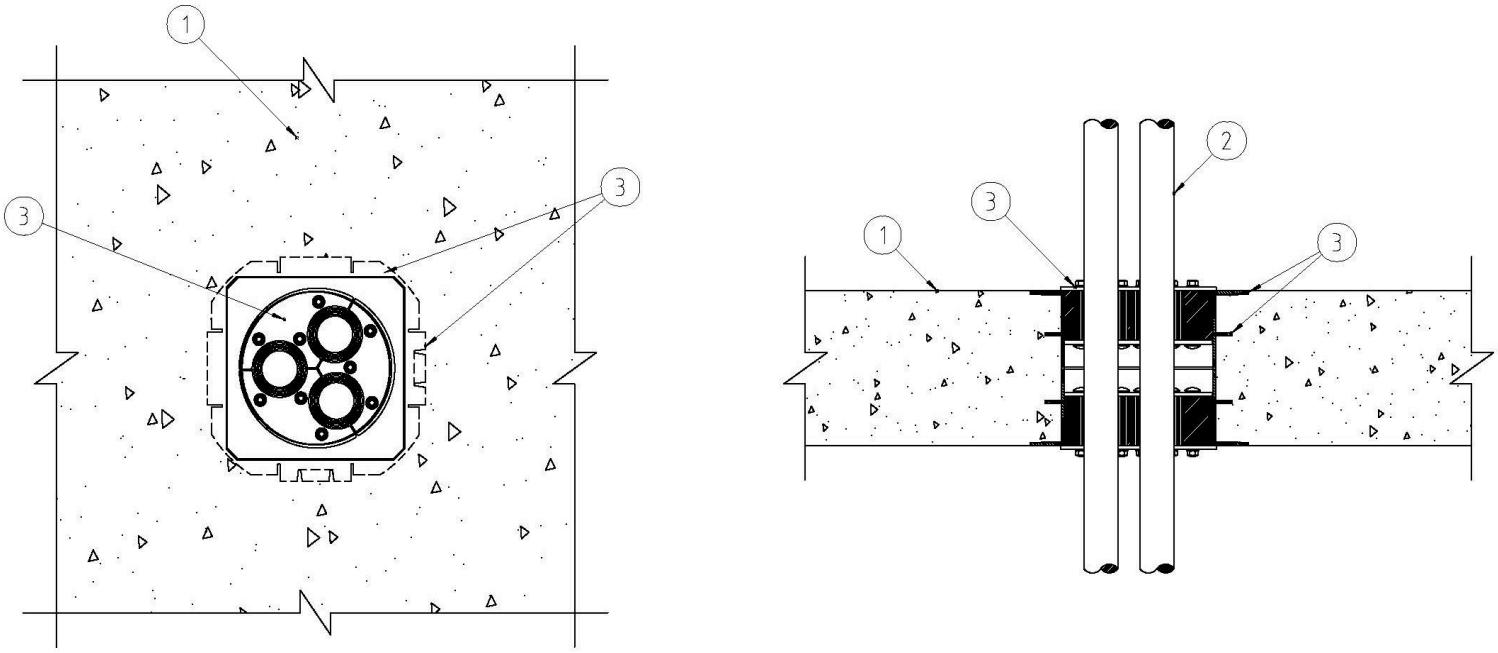


CONFIGURATION A





CONFIGURATION B



CONFIGURATION C

1. **Floor or Wall Assembly —** Min 8 in. (203mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 8 in. (202 mm).

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

2. **Cables** — Within the loading area for the 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. The following cable types may be used:

A. Max 1000 kcmil (or smaller) copper conductor shielded or unshielded power cable with Ethylene Propylene Rubber (EPR) insulation and PVC jacket materials.

B. Max 24 pr 16 AWG (or smaller) copper conductor shielded or unshielded instrumentation cable with polyvinyl chloride insulation and jacket materials.

C. Max 3/C No. 2 AWG metal clad or Tech 90 type copper conductor power cable with XLP insulation and PVC jacket materials

D. Max 3/C No. 500 kcmil MC type copper conductor power cable with Ethylene Propylene Rubber(EPR) insulation and PVC, PE or XLP jacket materials.

E. Max 750 kcmil aluminum conductor with outer concentric copper underground power distribution cable with Ethylene Propylene Rubber (EPR) insulation and thermoplastic polyethylene jacket materials.

F. Max 4/C No. 8 AWG copper conductor power cable with Crosslinked Polyolefin insulation and Neoprene jacket materials.

G. Max 19/C No. 14 AWG TC or TC-ER type copper conductor control power cable with Ethylene Propylene Rubber(EPR) insulation and Chlorinated Polyethylene (CPE) jacket materials.

H. Max 3/C No. 14 AWG MC type copper conductor power cable with XLP insulation and PVC jacket materials.

I. Max 2/C No. 14 AWG metal clad or Tech 90 type copper conductor control power cable with XLP insulation and PVC jacket materials.

J. Max 3/C No. 500 kcmil TC or TC-ER type copper conductor power cable with FRM Insulation and PVC jacket materials.

K/ Max 3/C No. 500 MCM TC or TC-ER type copper conductor power cable with Polyethylene insulation and PVC jacket materials.

The F, T, FT, FH, and FTH Ratings of the firestop system are dependent upon the type of penetrants used.

Penetrant	F Rating, Hr	T, FT Ratings, Hr	FH Rating, Hr	FTH Rating, Hr
2A, 2B, 2C, 2E	3	1-1/2	3	1-1/2
2A, 2B, 2C, 2E with SLFR or SLFRS sleeve (Config B)	3	1-1/4	3	1-1/4
2D	3	¾	3	¾
2, All others	3	½	3	½
Blank Device	3	1-1/2	3	1-1/2
Blank Device with SLFR or SLFRS sleeve (Config b)	3	1-1/4	3	1-1/4

If penetrant type is not listed in table above the T, FT and FTH Ratings are limited to ½ 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 devices shall be inserted into the opening and friction fit on both sides of the floor or wall assembly (Configuration A). with the circular flange of sleeve installed flush against the surface of concrete (Configuration A), steel sleeve (Configuration B) or KOS knock out sleeve (Configuration C).

Each device consists of three semi-circular elastomeric inserts with removable elastomeric layers and steel compression plates. The elastomeric layers of the device are removed one by one until a max gap of 0.04 in. (1 mm) is formed between inserts. After installation of the device into the opening, the nuts of the compression plate are tightened to form an effective seal around the penetrating item.

For Configuration B - The SLFR or SLFRS steel frame shall be secured to the floor or wall surfaces with min 1/4 x 1-7/8 in. (6 x 48 mm) masonry anchors through holes in the SLFR or SLFRS mounting flange.

Firestop device installed in accordance with the accompanying installation instructions.

ROXTEC INTERNATIONAL AB — Types H3-150, H3-200, Types H3-150 WOC, H3-200 WOC and optional corresponding sleeves SLFRS 150, SLFR 150, SLFRS 200, SLFR 200, KOS 150, KOS 200

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 flange at the interface with the concrete, sleeve or knockout. For L Ratings, sealant shall be applied on the device flange to seal each screw head location.

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

B1. **Silicone RTV Sealant —** (Not Shown) — As an alternate to the Firestop sealant (Item 3B), A min 1/4 in. (6 mm) diam bead of silicone RTV sealant supplied by the firestop device manufacturer, shall be applied as a gasket between the device frame mounting flange and the floor or wall in accordance with the manufacturer's installation instructions. The sealant bead shall be located between the edge of the opening and the line of fasteners around the entire perimeter of the opening.

B2. **Butyl Rubber Gasket —** (Not Shown) — As an alternate to the Firestop sealant and RTV sealant (Items 3B and 3B1), a nom 5/16 in. (8 mm) thick by 5/16 in. (8 mm) wide butyl rubber gasket supplied by the firestop device manufacturer with self-adhesive may be installed around the mounting flange in accordance with the manufacturer's installation instructions. 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.

*** 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 2025-11-20