

XHEZ7.W-N-8003 - 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

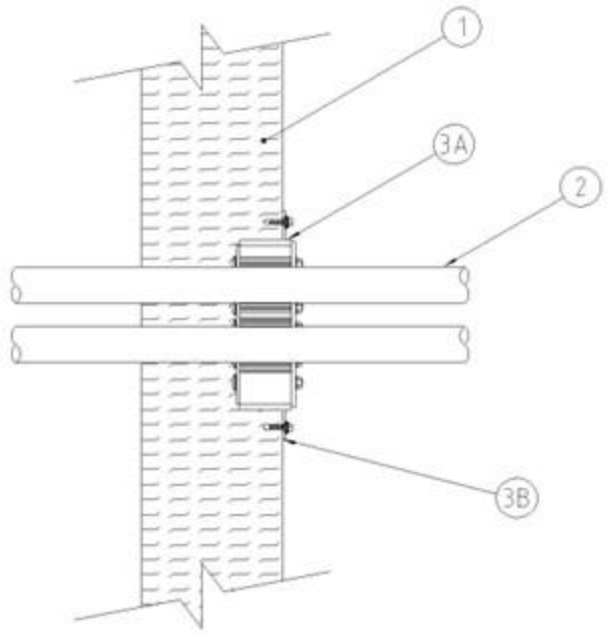
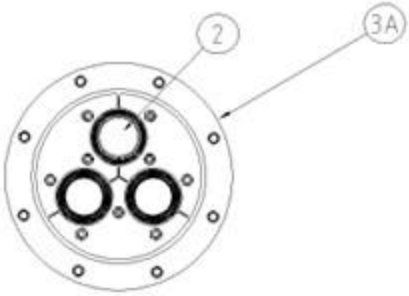
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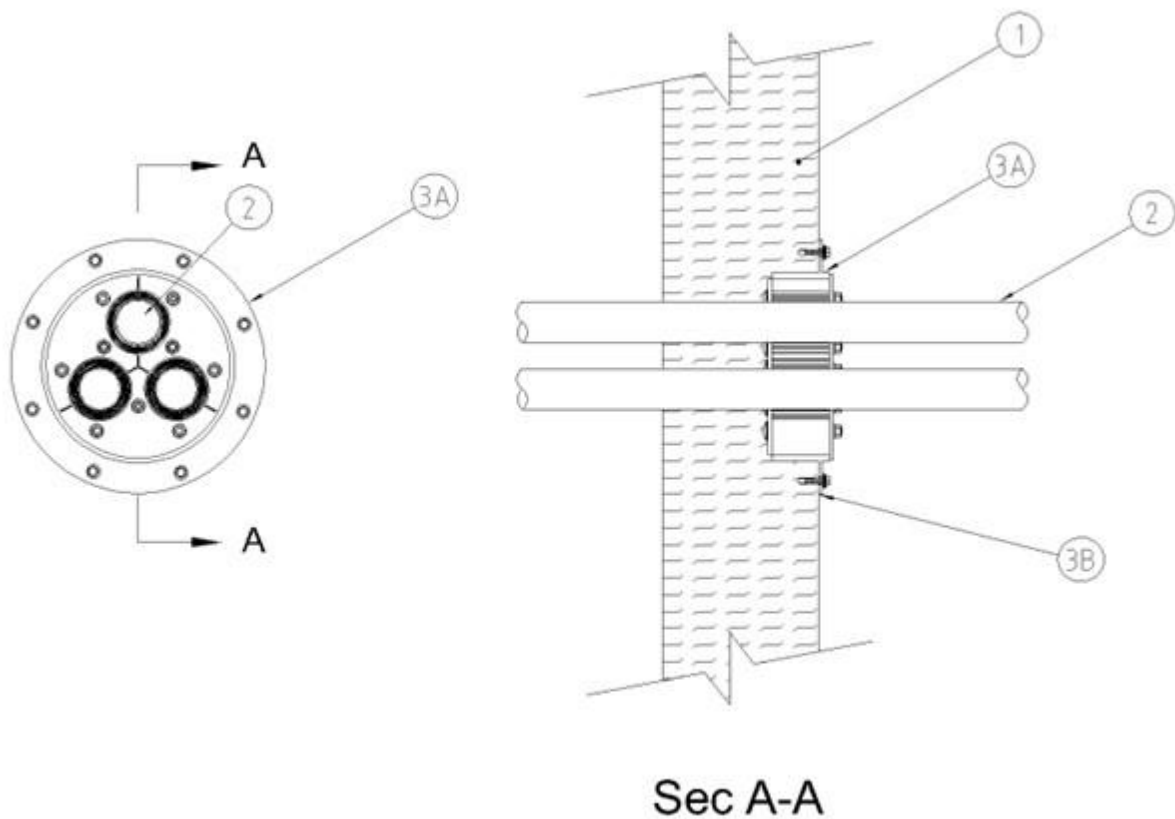
[See General Information for Through-penetration Firestop Systems](#)

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System No. **W-N-8003**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — ¾, 1-1/4, 1-1/2 Hr See Item 2	FT Ratings — ¾, 1-1/4, 1-1/2 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 — ¾, 1, 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





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 outer diameter and depth of recessed device sleeve. Max diam of panel cutout is 9 in. (228 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 penetrant. 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. Interlocking horizontal joints of adjacent partition panel units to be secured in accordance with the fire rated design. After installation of firestop device and through penetrant, retained cutout pieces of the insulation core are used to fill any visible voids between and around the penetrant to be flush with face of wall.

DURASYSTEMS BARRIERS INC — DuraWall Panels

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.

2A. **Metallic Penetrant** — Within the loading area for each firestop device module, the metallic penetrant specified below may be used. Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic penetrants may be used:

A. Nom -1/2 in. (38 mm) diam (or smaller) rigid steel conduit.

B. Rigid Nonmetallic Conduit+— Max 1-1/2 in. (38 mm) diam or smaller fiberglass reinforced phenolic conduit centered in the opening and rigidly supported on both sides of assembly.

See Rigid Nonmetallic Conduit (DZKT) category in the Electrical Construction Materials Directory for names of manufacturers.

The F, T, FT, FH, and FTH Ratings of the firestop system 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	2	1	2	1
2D	2	¾	2	¾
2, All others	2	½	2	½
2A,A ,2A,B	2	1-1/4	2	1-1/4
Blank Device	2	1-1/2	2	1-1/2

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 Device*** — Circular firestop device for use in pre-cut or pre-formed openings, sized to the inner diameter and depth of the corresponding steel flanged sleeve. The device is intended to be installed into the panel cutout at one side of wall with the circular flange of sleeve installed flush against steel skin of partition panel. 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 precut opening, the nuts of the compression plate are tightened to form an effective seal around the penetrating item. Firestop device secured in place with 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long hex washer self-drilling screw with bonded sealing washer within each preformed hole in sleeve flange around periphery of opening. Alternatively, 1/4 in. (6 mm) diam by min 6-1/2 in. (165 mm) long washer head lag screws extending through full thickness of partition panel may be used. 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 with their corresponding sleeves SLFRS 150, SLFR 150, SLFRS 200, SLFR 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 steel skin of the partition panel. 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 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.

+ Indicates such products shall bear the UL or cUL Listing Mark for jurisdictions employing the UL or cUL Listing (such as Canada), respectively.

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