

# THROUGH-PENETRATION FIRESTOP SYSTEM

Assembly Usage Disclaimer

## Search Parameters

Manufacturer

Holdrite

### XHEZ - Through-penetration Firestop Systems

#### XHEZ7 - Through-penetration Firestop Systems Certified for Canada

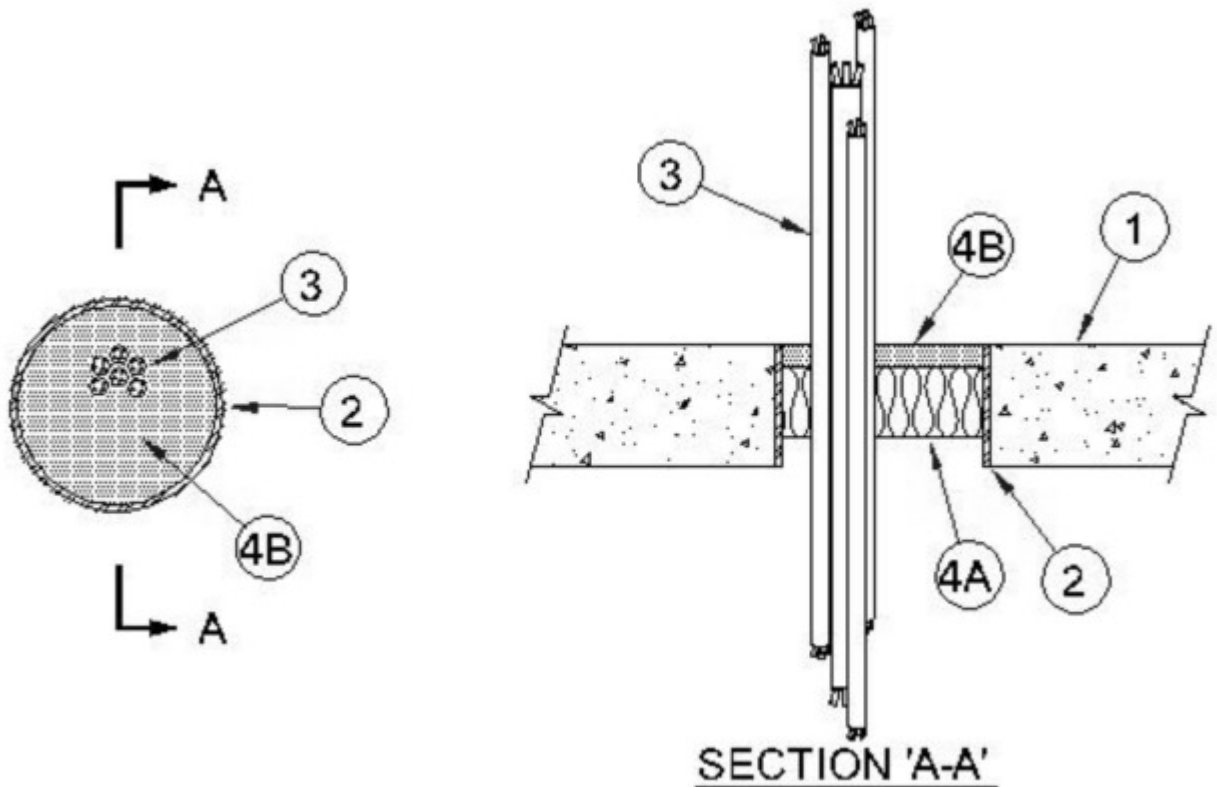
See General Information for Through-penetration Firestop Systems

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

### System No. C-AJ-3361

January 24, 2019

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



1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Floor may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units\***. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 6 in. (152 mm).

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

2. **Nonmetallic Sleeve (Optional)** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

3. **Cables** — Aggregate cross-sectional area of cable bundle in opening to be max 45 percent of the cross-sectional area of the opening. Min separation between cable bundle and between cables and periphery of opening is 1/4 in. (6 mm) Max annular space between cable bundle and periphery of opening is 2 in. (51 mm) Cables to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of copper or aluminum conductor cables may be used:

A. Max 1/C 350 kcmil cable with crosslinked polyethylene (XLPE) jacket.

B. Max 400 pair No. 24 AWG cable with PVC insulation and jacket.

C. Max. 3/C No. 2/0 AWG aluminum conductor SER cable with PVC insulation and jacketing.

D. Max. 3/C No. 12 AWG copper conductor cable with PVC insulation and jacket (Romex).

E. Max. RG59/U copper conductor coaxial cable with fluorinated ethylene insulation and jacket.

F. Max. 62.5/125 fiber optic cable with PVC insulation and jacket.

G. Max. RG/6 No. 18 AWG copper conductor CATV coaxial cable with PVC insulation and jacket.

H. Max. 4/C No. 2/0 AWG copper conductor, steel or aluminum armored or metal clad cable (MC cable).

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

**A. Packing Material** — — Min 4 in. (102 mm) thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall or hollow-core concrete floor as required to accommodate the required thickness of fill material.

**B. Fill, Void or Cavity Material\* - Caulk** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. When the floor is constructed of hollow-core precast concrete units, fill material shall be installed symmetrically on both sides of floor, flush with both floor surfaces.

**RELIANCE WORLDWIDE CORPORATION DBA HOLDRITE  
HYDROFLAME** — HydroFlame 100, HydroFlame 200

**\* 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 2019-01-24

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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.

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The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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