

THROUGH-PENETRATION FIRESTOP SYSTEM

Assembly Usage Disclaimer

Search Parameters

Manufacturer

Holdrite

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

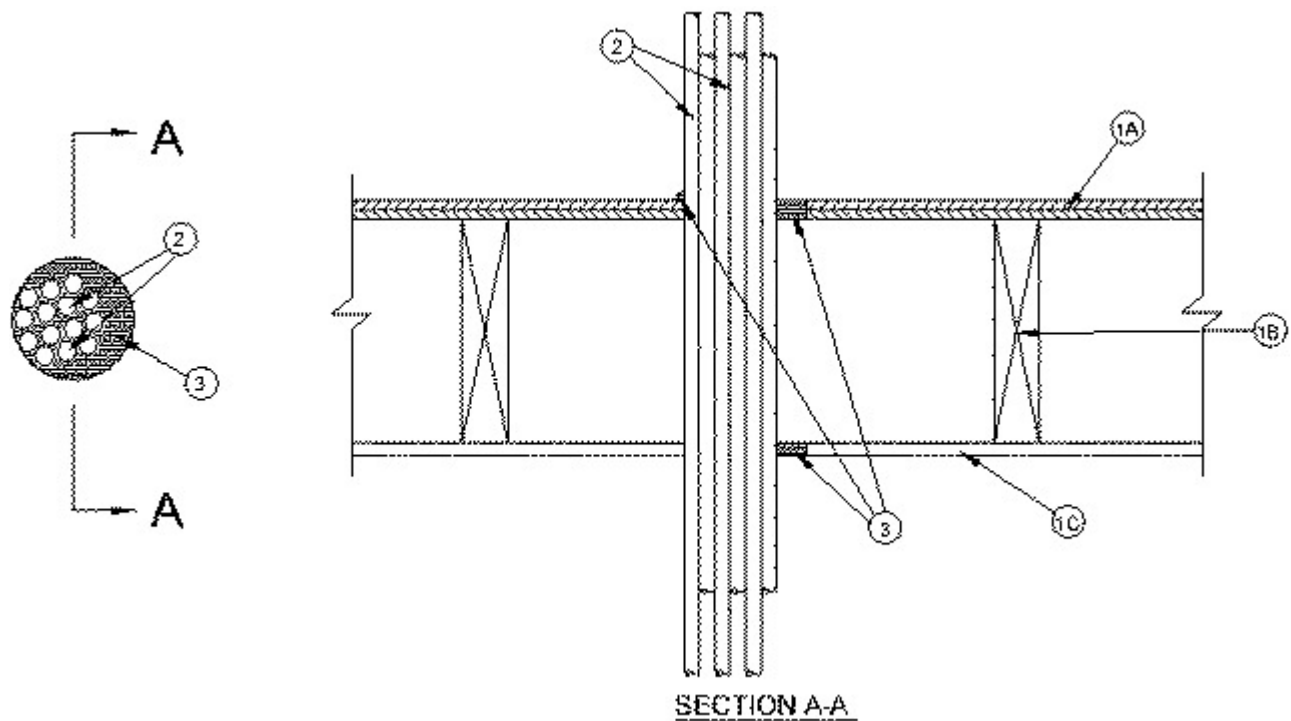
[See General Information for Through-penetration Firestop Systems](#)

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

System No. F-C-3123

January 29, 2019

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



1. **Floor-Ceiling Assembly** — The 1 hr fire-rated wood joint floor ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory, as summarized below:

A. **Flooring System** — Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 4-1/2 in. (114 mm)

B. **Wood Joists** — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.

C. **Gypsum Board*** — Nom 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Diam of opening to be max 1 in. (25 mm) larger than diam of bundled penetrants.

1A. **Chase Wall** — (Optional, Not Shown) — The through penetrants (Item 2) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. (13 mm) greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.

B. **Sole Plate** — Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly

butted. Max diam of opening is to be 1 in. (25 mm) larger than diam. of pipe.

C. **Top Plate** — The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm), two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is to be 1 in. (25 mm) larger than diam. of pipe.

D. **Gypsum Board*** — Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

2. **Cables** — Max 3 in. (76 mm) diam bundle of cables to be installed within the opening. At the plywood subfloor, bundled cables to be installed either concentrically or eccentrically within the opening with an annular space of min 0 in. (0 mm) (point contact) to max 1 in. (25 mm). At gypsum board ceiling, bundled cables to be installed either concentrically or eccentrically within the opening. Bundled cables to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of copper conductor cables shall be utilized in the opening:

A. Max 750 MCM power cables; THHN or THWN jacketed.

B. Max 8C, No.12 AWG multiconductor power and control cables; jacketed.

C. Max 300 pair No. 24 AWG copper conductor communication cable with polyvinyl chloride insulation and jacket material.

D. Max 25 pr/24 AWG telephone cable with polyethylene insulation and polyvinyl chloride jacket.

E. Max 4/C No. 18 AWG (or smaller) thermostat cable with PVC insulation and jacket.

F. Max 3C w/gnd, No. 12 AWG (or smaller) Romex NMC or SER w/pvc insulation and jacket.

G. Max 3C w/gnd, 2/0 AWG, Type SER aluminum, polyvinyl insulation and jacket.

H. Max 3C w/gnd, No. 6 AWG, Type NMC.

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

A. **A. Fill,Void or Cavity Material* — Caulk** — Min 3/4 in. thickness of fill material applied within the annulus, flush with the top surface of the floor sole plate. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with bottom surface of ceiling or top plate. Min 1/2 in. (13 mm) diam bead of fill material applied at point contact location on the top surface of floor or sole plate and at the penetrant/ceiling or top plate interface.

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

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

+Bearing the UL Recognized Component Marking

Last Updated on 2019-01-29

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.

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.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2019 UL LLC".