



System No. F-C-7044 XHEZ.F-C-7044 Through-penetration Firestop Systems

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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.

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

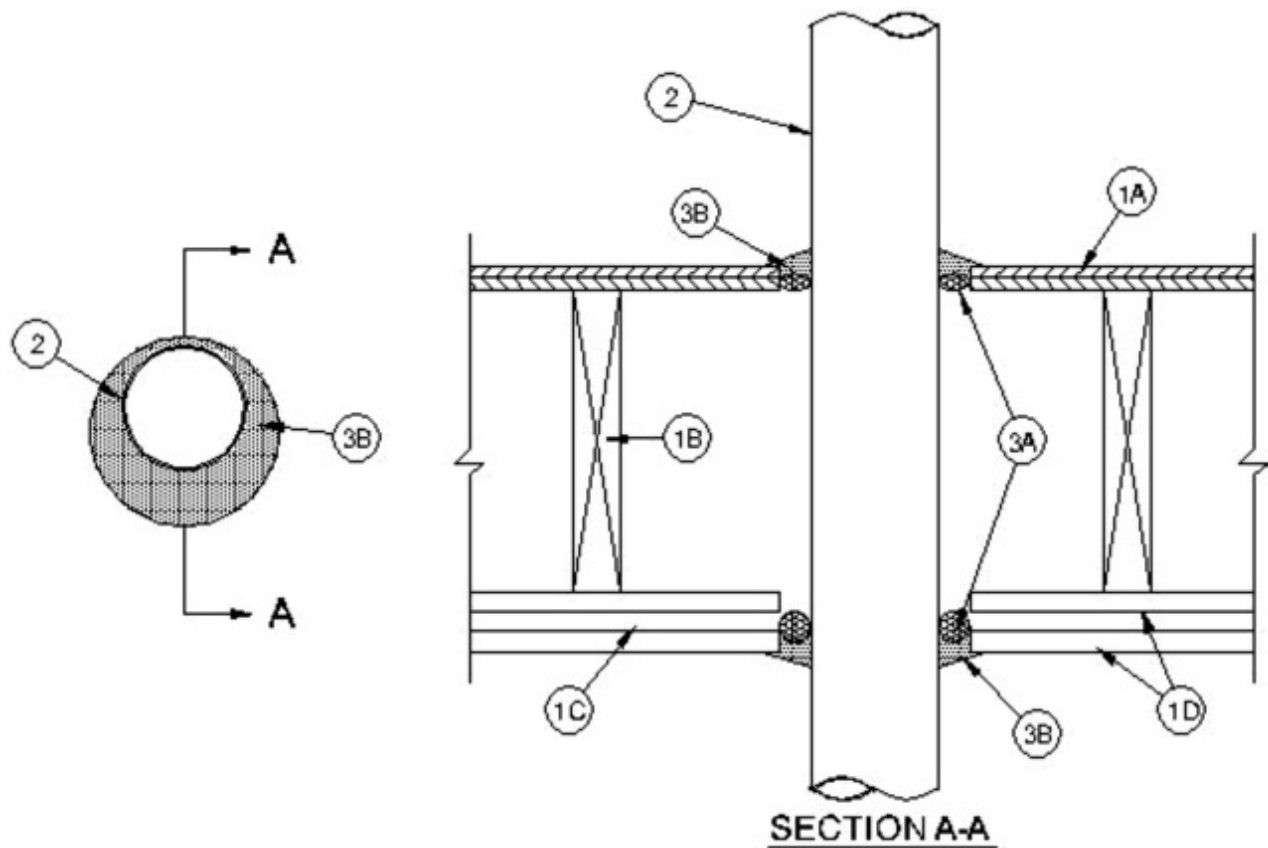
[See General Information for Through-penetration Firestop Systems](#)

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

System No. F-C-7044

June 01, 2016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr (See Item 3C)
T Rating - 1-1/2 Hr	FT Rating - 1-1/2 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 2 Hr (See Item 3C)
	FTH Rating - 1-1/2 Hr (See Item 2)
	L Rating At Ambient - Less Than 1 CFM/sq ft



1. Floor-Ceiling Assembly — The 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design Nos. L505, L511 or L536 in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are 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 6 in. (152 mm).

B. Wood Joists — Nom 2 by 10 in. (51 by 254 mm) lumber joists spaced 16 in. (406 mm) OC with nom 1 by 3 in. (25 by 76 mm) lumber bridging and with ends firestopped.

C. Furring Channels — Resilient galv steel furring channels installed perpendicular to wood joists between first and second layers of gypsum board (Item 1D). Furring channels spaced max 24 in. (610 mm) OC.

D. Gypsum Board* — Nom 4 ft (122 cm) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. First layer of gypsum board secured to wood joists as specified in the individual Floor-Ceiling Design. Second layer of gypsum board screw-attached to furring channels as specified in the individual Floor-Ceiling Design. Max diam of ceiling opening is 6 in. (152 mm).

1.1. Chase Wall — (Not Shown, Optional) — The through penetrants (Item 2) may be routed through a 2 hr fire-rated single, double or staggered wood stud/gypsum board chase wall. 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 8 in. (51 by 203 mm) lumber or double nom 2 by 4 in. (51 by 102 mm) lumber studs.

B. Sole Plate — Nom 2 by 8 in. (51 by 203 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is 6 in. (152 mm).

C. Top Plate — The double top plate shall consist of two nom 2 by 8 in. (51 by 203 mm) lumber plates or two sets of parallel nom 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is 6 in. (152 mm).

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

2. Steel Duct — Nom 4 in. (102 mm) diam (or smaller) No. 30 gauge (or heavier) galv steel duct. One duct to be centered within the firestop system with a nom annular space of 1 in. (25 mm). Duct to be rigidly supported on both sides of floor assembly.

3. Forming Material — (Optional) — Foam backer rod firmly packed into opening as a permanent form. Forming material to be recessed from top surface of floor or sole plate and bottom surface of ceiling or lower top plate of chase wall assembly as required to accommodate the required thickness of fill material.

4. **Fill, Void or Cavity Material* — Caulk** — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with top surface of the floor or sole plate and bottom surface of the ceiling or lower top plate of chase wall assembly. Additional fill material to be installed such that a min 1/2 in. (13 mm) crown is formed around the penetrating item and lapping 1/2 in. (13 mm) beyond the periphery of the opening.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Intumescent Sealant, A/D FIREBARRIER Intumescent Sealant II

*** 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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