



System No. F-C-2194 XHEZ.F-C-2194 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

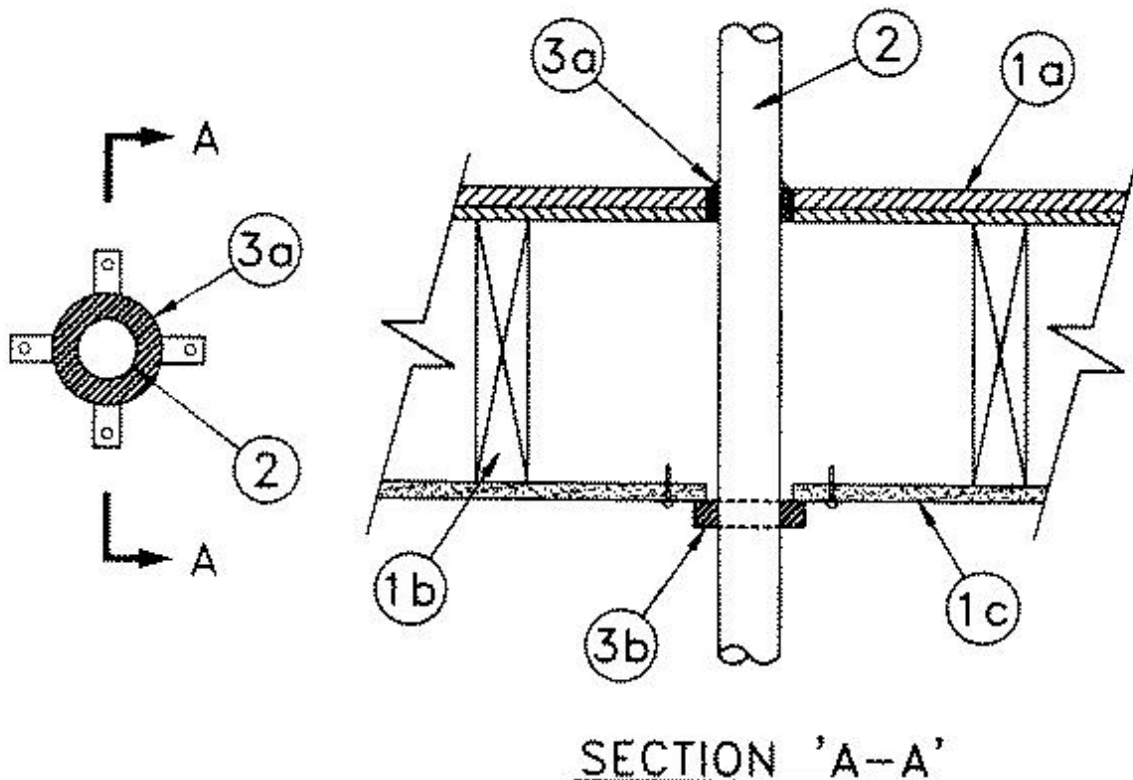
[See General Information for Through-penetration Firestop Systems](#)

System No. F-C-2194

December 20, 2013

F Rating — 1 Hr

T Rating — 1 Hr



1. **Floor-Ceiling Assembly** — The fire-rated wood joist floor-ceiling assembly shall be constructed of materials and in the manner specified in Design No. L505, L511 or L536 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 5 in.

(b) **Wood joist** — Nom 2 by 10 in. lumber joist spaced 16 in. OC with nom 1 by 3 in. lumber bridging with ends firestopped.

(c) **Wallboard, Gypsum*** — Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Celing Design. Max diam of ceiling opening is 5 in.

2. Through Penetrants — One nonmetallic pipe or conduit to be installed approximately midway between wood joists and centered within the firestop system. Diam of openings hole-sawed through flooring system and through gypsum wallboard ceiling to be nom 1/2 in. larger than the outside diam of through-penetrant. Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

(a) **Polyvinyl Chloride (PVC) Pipe** — Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vent (drain, waste or vent) piping system.

(b) **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 4 in. diam (or smaller) schedule 40 cellular or solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping system

(c) **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 4 in. diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.

(d) **Rigid Nonmetallic Conduit** — Nom 4 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

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

(a) **Fill, Void or Cavity Material* Sealant** — Fill material forced into annulus to fill space to max extent possible, flush with top surface of floor. Additional fill material to be installed such that a min 1/4 in. crown is formed around the penetrating item on top surface of floor.

A/D FIRE PROTECTION SYSTEMS INC — A/D Fire Barrier Silicone

(b) **Firestop Device*** — Galv steel collar lined with an intumescent material sized to fit specific diam of the through penetrant. Device to be installed around through penetrant in accordance with accompanying installation instructions. Device incorporates four anchor tabs for securement to bottom surface of gypsum wallboard ceiling by means of 1/8 in. diam by 3 in. long toggle bolts in conjunction with 1/4 in. by 1 in. diam steel fender washer.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Collar

*** 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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