



**System No. C-AJ-2186**  
**XHEZ.C-AJ-2186**  
**Through-penetration Firestop Systems**

[Page Bottom](#)

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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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**XHEZ - Through-penetration Firestop Systems**

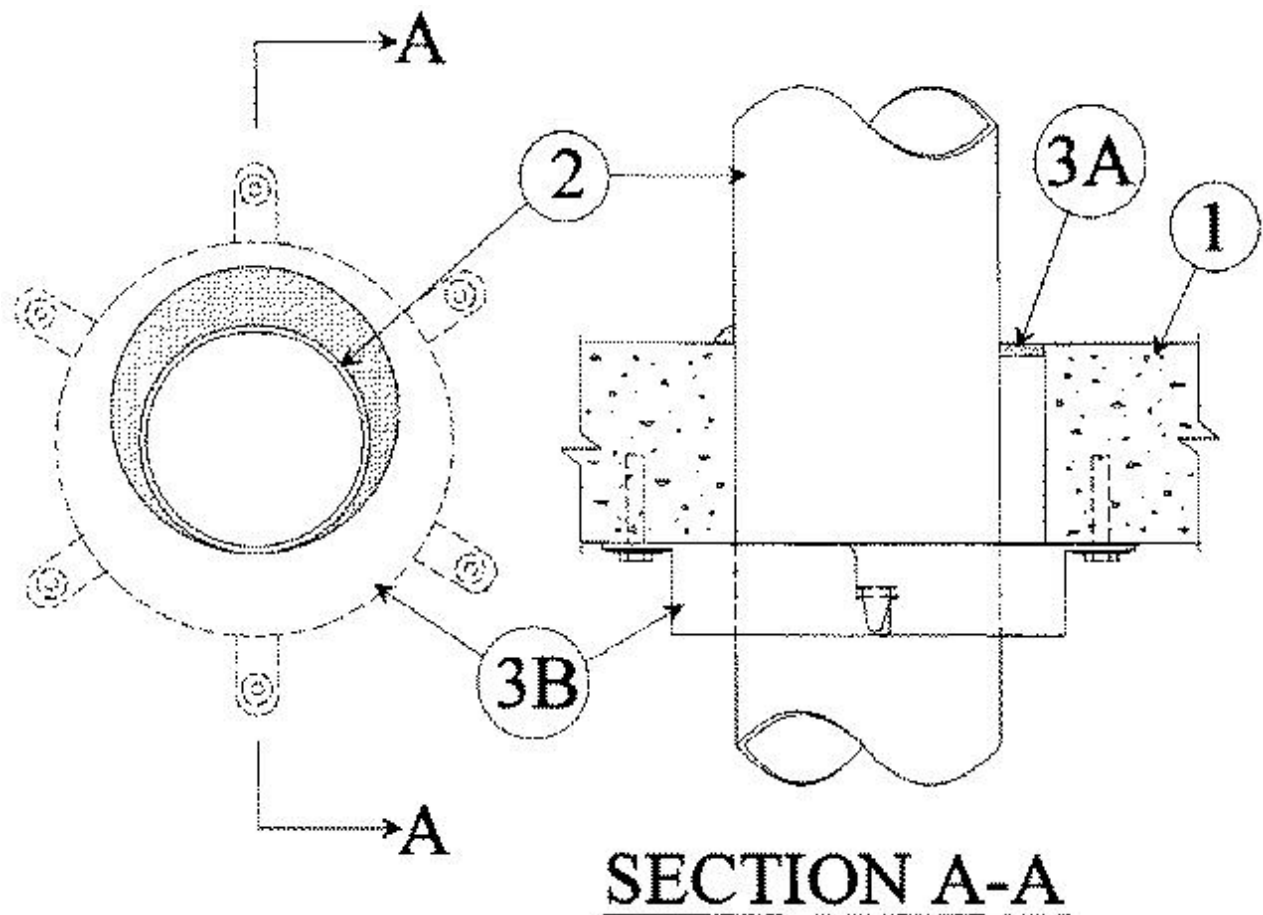
[See General Information for Through-penetration Firestop Systems](#)

**System No. C-AJ-2186**

December 20, 2013

**F Rating — 2 Hr**

**T Rating — 2 Hr**



1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 7 in.

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

2. **Through Penetrants** — One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and the periphery of the opening shall be a min of 0 in. (point contact) to a max 3/8 in. Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 6 in. diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 6 in. diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. **Rigid Nonmetallic Conduit+** — Nom 6 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Articles 347 or 710 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** — Min 3/8 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between through penetrant and concrete, a min 3/8 in. diam bead of fill material shall be applied at the concrete/through penetrant interface on the top surface of floor and on both surfaces of wall.

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

B. **Firestop Device** — Galv steel sleeve lined with an intumescent material sized to fit the specific diam of the through penetrant. Device to be wrapped around outer circumference of through penetrant and secured together in accordance with the installation instructions supplied with the product. In floors, the device shall be installed on the bottom side of the concrete floor. In wall assemblies, the device shall be installed on each side of the concrete wall. Device shall be secured to concrete surface at each mounting tab with 1/4 in. diam by min 1-3/4 in. long steel concrete anchors in conjunction with min 1/4 in. by 1-1/4 in. diam steel fender washers.

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

\*Bearing the UL Classification Marking

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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