



## System No. C-AJ-1323 XHEZ.C-AJ-1323 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

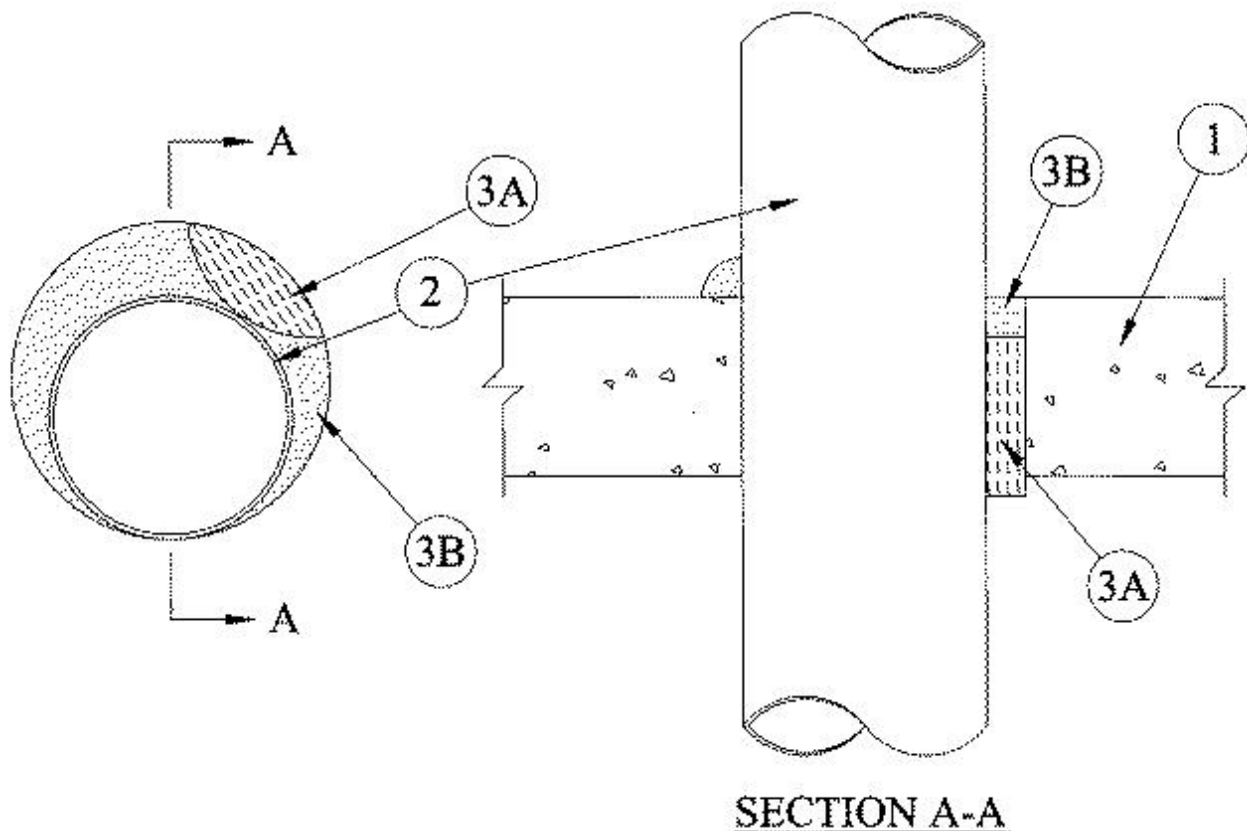
[See General Information for Through-penetration Firestop Systems](#)

#### System No. C-AJ-1323

June 09, 2003

**F Rating — 3 Hr.**

**T Rating — 0 Hr.**



1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced normal weight (140-150 pcf) concrete floor or min 6 in. thick reinforced normal weight concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max

diam of opening is 26 in.

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

**2. Through Penetrant** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. **Steel Pipe** — Nom 24 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
- B. **Iron Pipe** — Nom 24 in. diam (or smaller) cast or ductile iron pipe.
- C. **Conduit** — Nom 4 in. diam (or smaller) steel electrical metallic tubing or nom 6 in. diam steel conduit.
- D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type K (or heavier) copper tubing.
- E. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

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

A. **Packing Material** — Min 4 in. 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 as required to accommodate the required thickness of fill material. In floors, packing material shall extend a min 1/2 in. below the bottom surface of the floor.

B. **Fill, Void or Cavity Materials\* — Sealant** — Min 1 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall assembly. At the point contact location between through penetrant and concrete, a min 1/2 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 FireBarrier Silicone S/L (for floors only) and A/D FireBarrier Silicone (for floors and walls).

(For bead at point contact location between concrete and through penetrant, A/D FireBarrier Silicone only.)

**\* 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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