



## System No. C-AJ-1117 XHEZ.C-AJ-1117 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

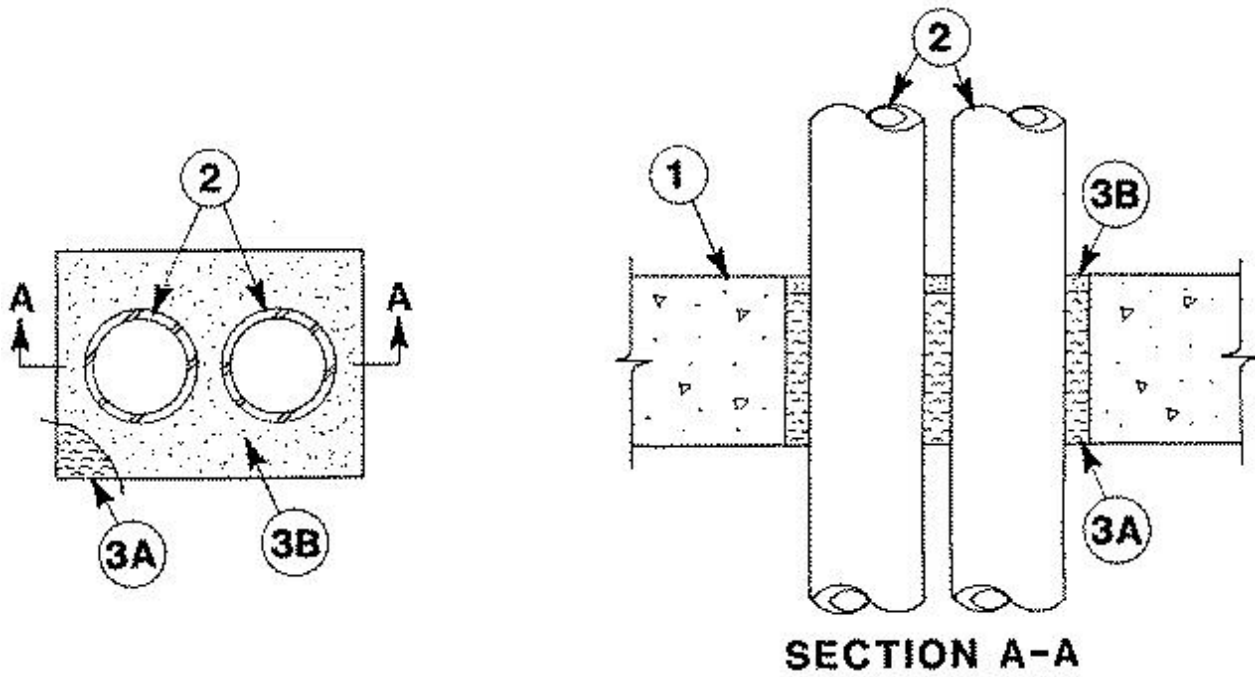
[See General Information for Through-penetration Firestop Systems](#)

## System No. C-AJ-1117

December 06, 2001

**F Rating — 3 Hr**

**T Rating — 0 Hr**



1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Floor may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units\***. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max area of opening is 48 sq in. with max dimension of 8 in. If the firestop system is installed within a hollow-core precast concrete unit, max dimension of opening shall be 7 in.

See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** — A max of two pipes, conduit or tubing to be installed within the opening. The space between pipes, conduit or tubing shall be a nom 5/16 in. The Space between pipes, conduit or tubing and periphery of opening shall be min 1/4 in. to max 1-1/4 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 3 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 3 in. diam (or smaller) cast or ductile iron pipe.

C. **Conduit** — Nom 3 in. diam (or smaller) steel electrical metallic tubing or rigid galv steel conduit.

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. When the floor is constructed of hollow-core precast concrete units, packing material shall be recessed from both surfaces of floor to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material\* — Sealant** — Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. When the floor is constructed of hollow-core precast concrete units, fill material shall be installed symmetrically on both sides of floor, flush with both floor surfaces.

**A/D FIRE PROTECTION SYSTEMS INC** — A/D Silicone Firebarrier Sealant [S/L (floors only) or G/G (floor, hollow-core precast concrete units or walls)].

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

Last Updated on 2001-12-06

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