



System No. C-AJ-3207
XHEZ.C-AJ-3207
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.
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XHEZ - Through-penetration Firestop Systems

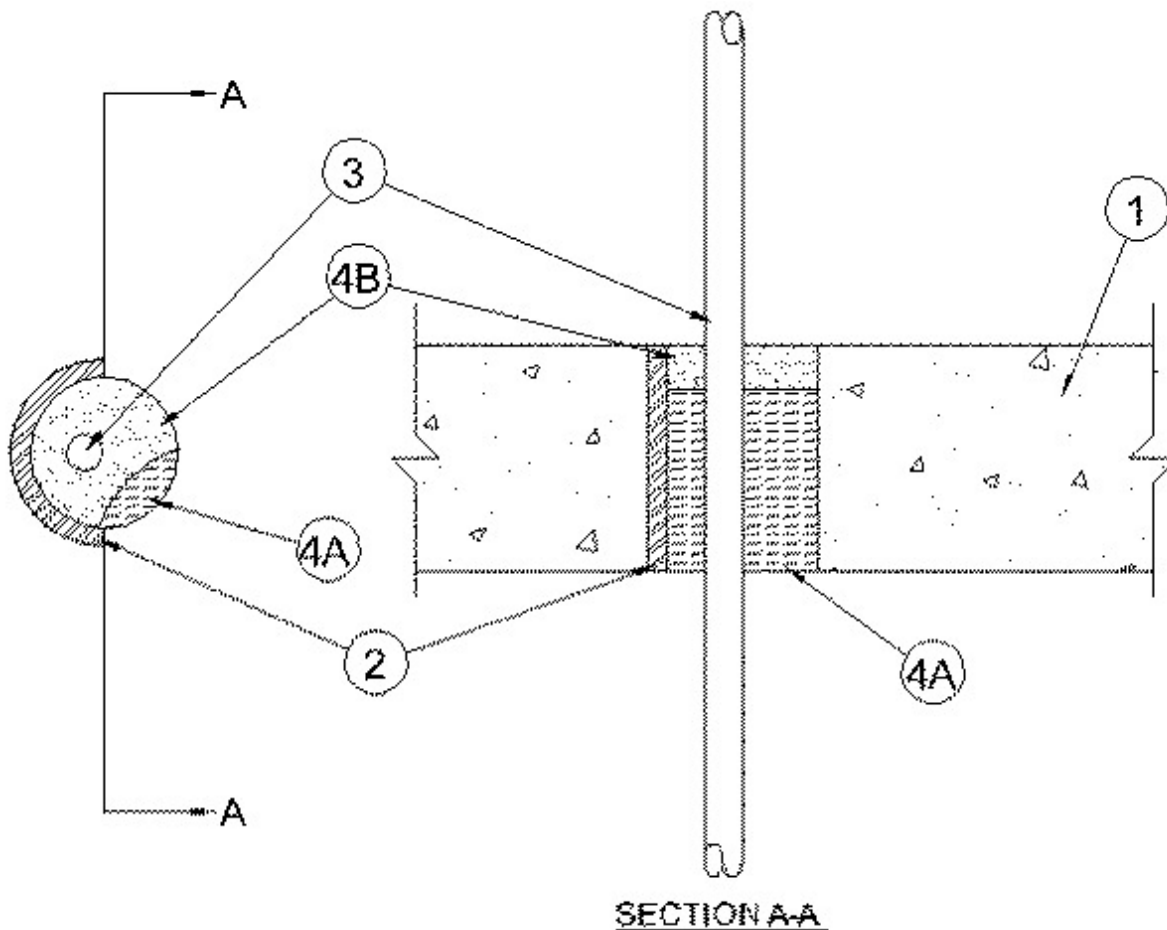
See General Information for Through-penetration Firestop Systems

System No. C-AJ-3207

July 28, 2003

F Rating — 2 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 5-1/2 in. thick reinforced lightweight or normal weight wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 3 in.

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

2. **Metallic Sleeve** — (Optional) - Nom 3 in. diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

3. **Cables** — One cable to be installed either concentrically or eccentrically within the firestop system. The annular space between the cable and the periphery of the opening shall be min $\frac{3}{4}$ in. to a max 1-1/4 in. Cable to be rigidly supported on both sides of floor or wall assembly. Any of the following types and sizes of cables may be used:

- A. Max 100 pair No. 24 AWG (or smaller) cable with polyvinyl chloride (PVC) insulation and jacket materials.
- B. Max 1/C 500 kcmil (or smaller) cable with cross linked polyethylene insulation and jacket materials.
- C. Max 3/C (with ground) No. 12 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.
- D. Max RG/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacket materials.
- E. Max 2/C No. 12 AWG (or smaller) cable with PVC insulation and jacket materials.
- F. Max 3/C - No. 4/0 AWG (or smaller) aluminum conductor service entrance cable with PVC insulation and jacket.

3A. **Through Penetrating Product*** — As an alternate to Item 2, max 4/C No. 2 AWG (or smaller) aluminum or steel Armored Cable+ or 2/0 Metal-Clad Cable+ with copper conductors. Max one armored cable or metal-clad cable to be installed eccentrically within the firestop system. The annular space between the cable and the periphery of the opening shall be min $\frac{3}{4}$ in. to a max 1-1/4 in. Cable to be rigidly supported on both sides of floor or wall assembly.

AFC CABLE SYSTEMS INC

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

- A. **Packing Material** — Min 3-1/2 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.

B. Fill, Void or Cavity Material* - Sealant — Min 1 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Silicone SL (floors only) and A/D FIREBARRIER Silicone (floors and walls)

*** 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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