System No. C-AJ-4046
XHEZ.C-AJ-4046
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

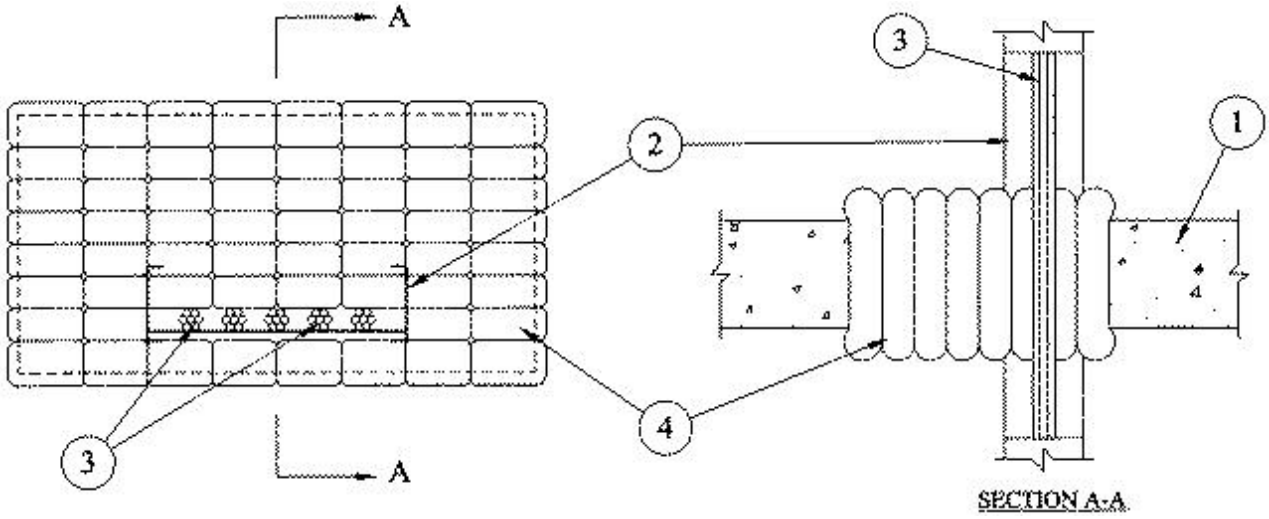
See General Information for Through-penetration Firestop Systems

System No. C-AJ-4046

November 29, 1999

F Rating — 3 Hr

T Rating — 1-1/2 Hr



1. **Floor or Wall Assembly —** Min 5 in. thick reinforced normal weight (140-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.** Max area of opening is 288 sq in. with max dimensions of 24 in.

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

2. **Cable Tray* —** Max 12 in. wide by max 3-5/8 in. (max 3 in. deep loading depth) deep through type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048) in. thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048) in. thick ventilated type rungs spaced 10 in. OC. Max one cable tray to be installed either concentrically or eccentrically within the firestop system. The annular space between the cable tray and the periphery of the opening shall be a min 1-1/2 in. to a max 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables —** Max four individual cable bundles, each containing max seven cables to be installed within cable tray. Max diam of individual cable bundles shall be 2 in. Cable bundles to be spaced a min 1-1/2 in. to a max 3 in. OC. Any combination of the following types and sizes of cables may be used:

A. Max 3 pair No. 24 AWG (or smaller) copper conductor cables with polyvinyl chloride (PVC) insulation and jacket.

B. Max 2 fiber 62.5/125 uM fiber optic cable with PVC insulation and jacket.

C. Max RG/U (or smaller) coaxial copper conductor cable with fluorinated ethylene insulation and jacket materials.

4. **Fill, Void or Cavity Materials*-Pillows —** Max 8 in. long by 4 in. wide by 2 in. thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.

A/D FIRE PROTECTION SYSTEMS INC — A/D FireBarrier Pillows

*** 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 1999-11-29