System No. C-AJ-2583
XHEZ.C-AJ-2583
Through-penetration Firestop Systems

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.

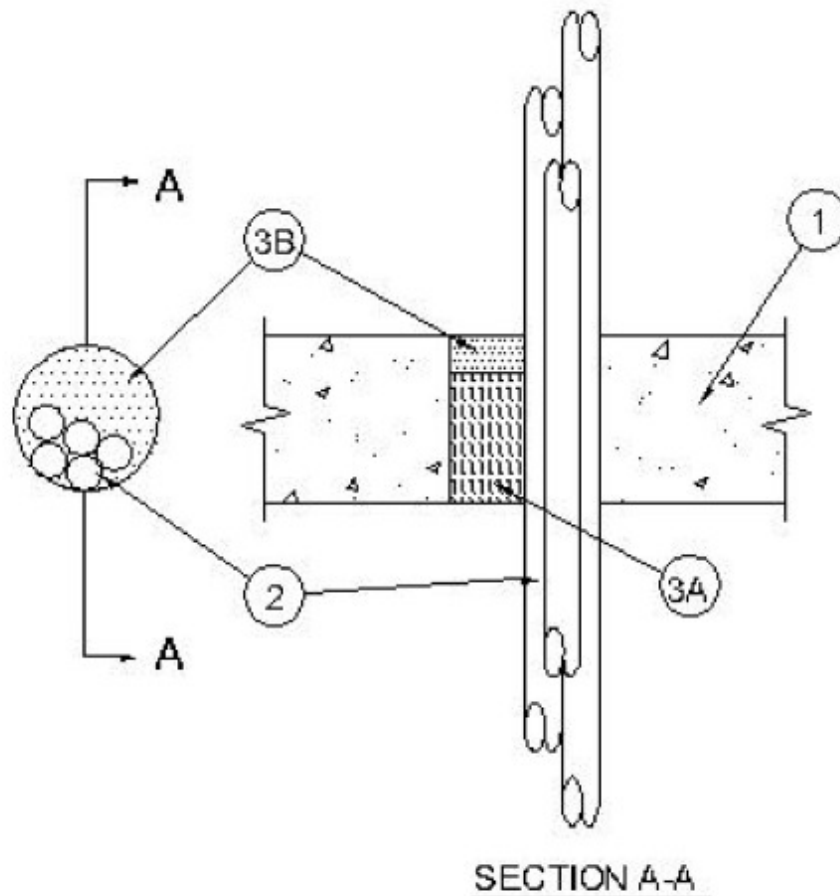## XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. C-AJ-2583

April 22, 2016

F Rating — 2 Hr

T Rating — 2 Hr

SECTION A-A

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf (1600-2400 kg/m^3)) concrete floor or min 5-1/2 in.(140 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 4 in. (102 mm).

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

2. **Non-metallic Tubing —** Nom 1 in. (25 mm) diam (or smaller) SDR 9 crosslinked polyethylene (PEX) tubing for use in closed (process or supply) piping systems. Max 5 tubes to be bundled together within opening. Tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 7/8 in. (73 mm).

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

      A. **Packing Material —** Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material (Item 3B).

      B. **Fill, Void or Cavity Material* - Sealant —** Min 1 in. (25 mm) thickness of fill material applied within annulus, flush with top surface of floor or both surfaces of wall. Sealant to be forced into interstices of tubing group to max extent possible. At point contact location between tubing and concrete, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at tubing/concrete interface on top surface of floor or both surfaces of wall.

      A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Intumescent Sealant, A/D FIREBARRIER Intumescent Sealant II

* 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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Service. Always look for the Mark on the product.