



## **XHEZ.C-AJ-2535 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 Listed or Classified 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 as Classified, Listed, or Recognized.
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### **Through-penetration Firestop Systems**

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

#### **System No. C-AJ-2535**

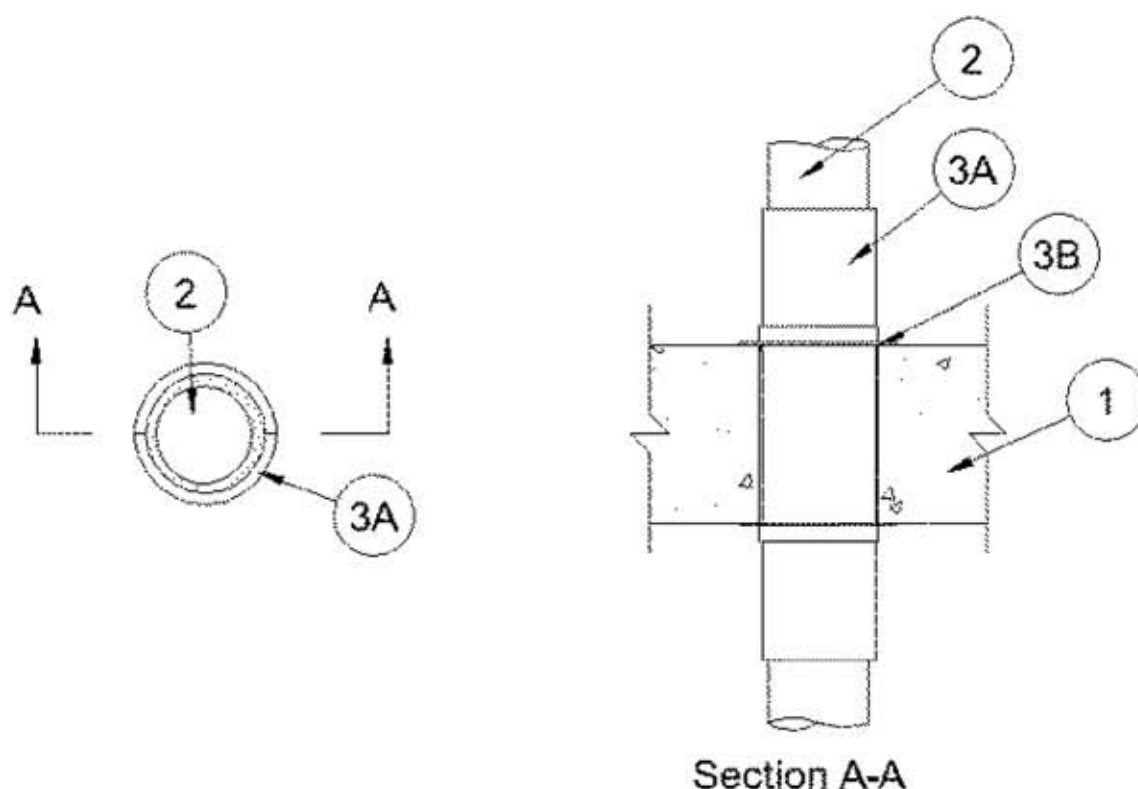
August 06, 2009

**F Ratings — 2 and 3 Hr (See Item 1)**

**T Rating — 0 Hr**

**L Rating At Ambient — Less Than 1 CFM**

**L Rating At 400 F — Less Than 1 CFM**



**1. Floor or Wall Assembly** — Min 2-1/2 in. ( 64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Diam of opening shall be 2-1/2 in. (64 mm) or 3-1/2 in. ( 89 mm) for nom 2 and 3 in (51 and 76 mm) devices.

**F Rating is 3 Hr for floors or walls with a min thickness of 4-1/2 in. (114 mm). F Rating is 2 Hr for floors and walls less than 4-1/2 in. (114 mm) thick.**

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

**2. Through Penetrant** — Nom 2 in. (51 mm) diam (or smaller) SDR 9 cross-linked polyethylene tubing for use in closed (process or supply) or vented (drain, waste or vent) piping systems. Through penetrant to be installed either concentrically or eccentrically within the firestop system. The annular space between the through penetrant and the periphery of opening shall be min 3/16 in. (5 mm) to max 5/16 in. (8 mm). Through penetrant to be rigidly supported on both sides of floor or wall assembly.

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

**A. Firestop Device\*** — Nom 2 in. (51 mm) or 3 in. (76 mm) diam by 10 in. (305 mm) long powder coated steel transit incorporating internal intumescent material, foam plugs and mounting flanges. Firestop device to be friction fit within opening and installed with its ends projecting an equal distance beyond each surface of the floor or wall assembly in accordance with the accompanying installation instructions. Firestop device secured in place by means of fill material (Item 3B) and steel split mounting flanges sized to accommodate the firestop device. Steel split mounting flanges installed on both sides of floor or wall after installation of fill material and secured to together with supplied steel set screws. Nom 1-1/2 in. (38 mm) thick foam plugs cut to accommodate the through penetrant and installed flush with each end of device on both sides of floor or wall assembly.

**ABESCO LTD** — CT 120/R Transit

**B. Fill, Void or Cavity Materials\* - Caulk** — Min 1/8 in. (3 mm) bead of fill material applied at device/concrete interface on the top surface of floor or both surfaces of wall immediately prior to installation of the mounting flanges.

**ABESCO LTD** — CP310 FR Acrylic Intumescent Caulk

\*Bearing the UL Classification Mark

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