

## XHEZ.C-AJ-3254 Through-penetration Firestop Systems

Page Bottom

## 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.

## Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

## System No. C-AJ-3254

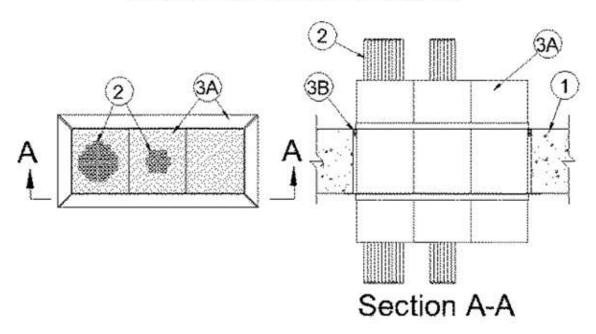
August 06, 2009

F Ratings - 2 and 3 Hr (See Item 1)

T Ratings - 0 and 1 Hr (See Item 1)

L Rating At Ambient — Less Tha 1 and 2.8 CFM/Device (See Item2)

L Rating At 400 F — Less Than 1 and 1.6 CFM/ Device (See Item2)



 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\*. Max area of opening is 201/8 in.2 (130 cm<sup>2</sup>) with a max dimension of is 7-5/8 in. (194 mm) for square devices. Max diam of opening is 2-1/2 in. (64 mm) for 2 in. (51 mm) round devices. When thickness of floor or wall assembly is less than 4-1/2 in. (114 mm), F Rating is 2 hr and T Rating is 0 hr.

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

- Cables Within the loading area of each firestop device module the cables may represent a 0 to 100 percent visual fill. Cable bundle to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of cables may be used:
  - A. Max 4 pair No. 24 AWG copper conductor Cat5e or Cat 6 telephone cable with polyvinyl chloride (PVC) insulation and jacket materials.
  - B. Max 4 pair No. 23 AWG copper conductor Cat 6 telephone cable with PVC insulation and jacket
  - L Rating is less than 1 CFM/Device for a single cable or a blank at ambient and 400 F. The L Rating is 2.8 CFM/Device and 1.6 CFM/Device at ambient and 400 F respectively for all other percentages of fill.
- 3. Firestop System The firestop system shall consist of the following:
  - A. Firestop Device\* A max of three square firestop devices may be ganged together. As an alternate, one round device may be centered within a round opening. Each device consists of a nom 2-1/2 by 2-1/2 by 10 in. (64 by 64 by 254 mm) or a nom 2 in. (51 mm) diam by 10 in. (254 mm) powder coated steel transit incorporating internal intumescent material, foam plugs and mounting flanges. Firestop device to be centered within opening and installed with ends projecting an equal distance beyond each surface of the floor or wall assembly in accordance with the accompanying installation instructions. The annular space between the firestop device(s) and the periphery of the opening shall be nom 1/4 in. (6 mm). Firestop devices secured in place by means of fill material (Item 4B) 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 pre-cut foam plugs sized to accommodate the cable bundle and installed flush with each end of device on both sides of floor or wall assembly.

ABESCO LTD - CT120 or CT120/R Transit

B. Fill, Void or Cavity Materials\* - Caulk or Putty - Min 1/8 in. (25 mm) thickness of caulk or min 1-1/2 in. thickness of putty applied within the annulus, flush with top surface of floor or with both surfaces of wall prior to the installation of the mounting flanges An additional bead of caulk shall be placed between ganged devices on both sides of floor or wall when multiple devices are used.

ABESCO LTD - CP310 FR Acrylic Intumescent Caulk or Abesco FR Putty

\*Bearing the UL Classification Mark

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Ouestions? Notice of Disclaimer Page Top

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