

XHEZ.C-AJ-3247 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-3247

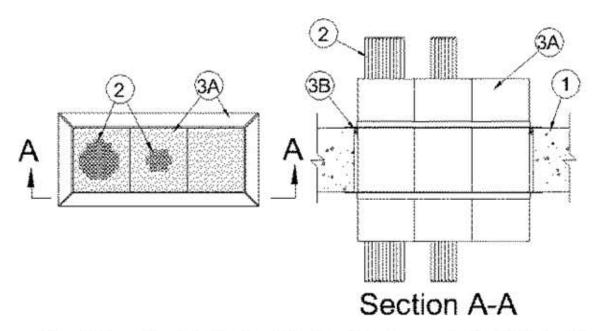
August 06, 2009

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

T Rating -0 Hr

L Rating At Ambient - Less Than 1 and 2.8 CFM/Device (See Item 2)

L Rating At 400 F - Less Than 1 and 1.6 CFM/ Device (See Item 2)



 Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 50 in.² (323 cm²) with a max dimension of is 12-1/8 in. (308 mm) for square devices. Max diam of opening is 2-1/2 in. (64 mm) for 2 in. (51 mm) round devices. Max diam of opening is 4-1/2 in. (114 mm) for 4 in. (102 mm) round devices. When thickness of floor or wall assembly is less than 4-1/2 in. (114 mm), F Rating is 2 hr.

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

- 2. 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 2/C No. 18 AWG copper conductor thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials.
 - B. Max 4 pair No. 24 AWG copper conductor Cat5e or Cat 6 telephone cable with PVC insulation and jacket materials.
 - C. Max RG/U (or smaller) coaxial cable with foam high density polyethylene insulation and PVC jacket materials.
 - D. Max 3/C (with ground) No. 14 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.
 - E. Max 1/C No. 8 AWG copper conductor cable with PVC insulation and nylon jacket materials.
 - F. Max 12 core No. 26 AWG shielded multi coax cable with foam high density polyethylene insulation and PVC jacket.
 - G. Max 48MM62.5 micron fiber optic cables with having a min FT-6 rating.
 - H. Max 62.5/125 micron micron fiber optic cables with having a min Riser rating.
 - I. Max 1/C 3/0 AWG copper conductor cable with PVC insulation and jacket materials.
 - J. Max three copper conductors (with ground) No. 12 AWG Metal Clad Cable+.
 - K. Max four copper conductors No. 2 AWG Metal Clad Cable+. AFC Cable System Inc.
 - L. Max 1/C 2/0 AWG non halogen copper conductor cable.
 - M. Max 300 pair No. 24 AWG copper conductor telephone cable with PVC insulation and jacket materials.
 - N. Max 30 pair No. 22 copper conductor shielded switchboard cable with PVC insulation and jacket materials.
 - O. Max RG/6 (or smaller) coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket materials.
 - P. Max RG/U (or smaller) coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket materials.
 - Q. Max 7/C No. 12 AWG copper conductors with PVC insulation and jacket materials.
 - R. Max 4 pair No. 23 AWG copper conductor Cat 6 telephone cable with PVC insulation and jacket materials.
 - S. Max three copper conductors (with ground) No. 12 AWG steel Armored Cable+.
 - T. Max 04-02 2 5M fiber optic cables having a max diameter of 0.450 in. (11.4 mm).
 - U. Max 1/C No. 750 kcmil copper conductors with PVC insulation and fabric jacket materials.
 - V. Max 3/C with ground No. 2/0 AWG aluminum conductor SER cable with cross linked polyethylene (XLPE) insulation and PVC 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.

Firestop System — The details of the firestop system shall be as follows:

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), a nom 4 by 4 by 10 in. (102 by 102 by 254 mm), a nom 2 in. (51 mm) diam by 10 in. (254 mm) or a nom 4 in. (102 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 1/8 in. (3 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. (3 mm) thickness of caulk or min 1/2 in. (13 mm) 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

+Bearing the UL Listing Mark

Last Updated on 2009-08-06

Questions? Notice of Disclaimer Page Top

Copyright © 2010 Underwriters Laboratories Inc.®

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Designs and/or Listings (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc." must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "Copyright © 2010 Underwriters Laboratories Inc.®"

An independent organization working for a safer world with integrity, precision and knowledge.

