XHEZ.C-AJ-1758 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

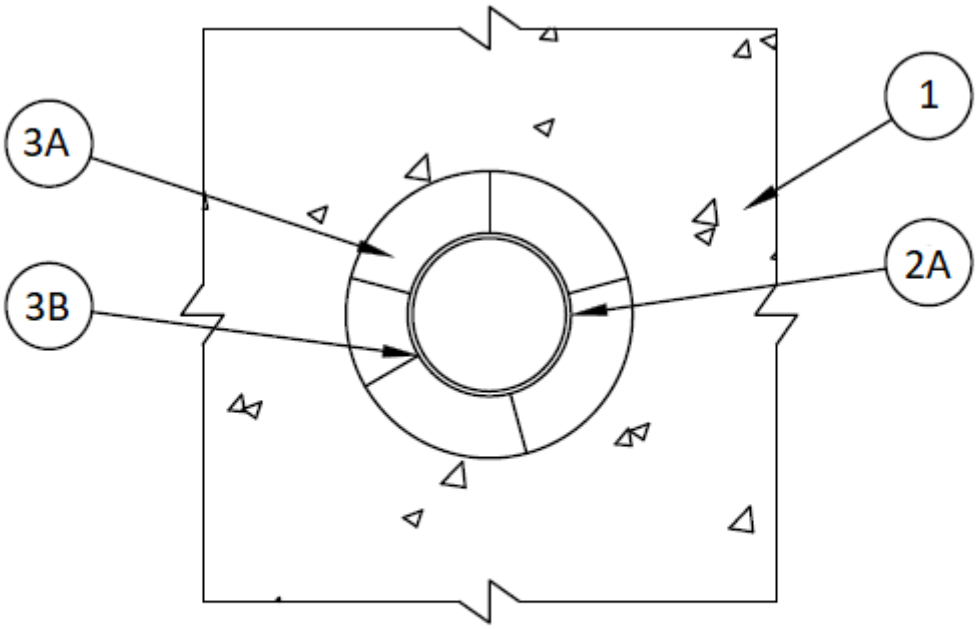
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies 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.

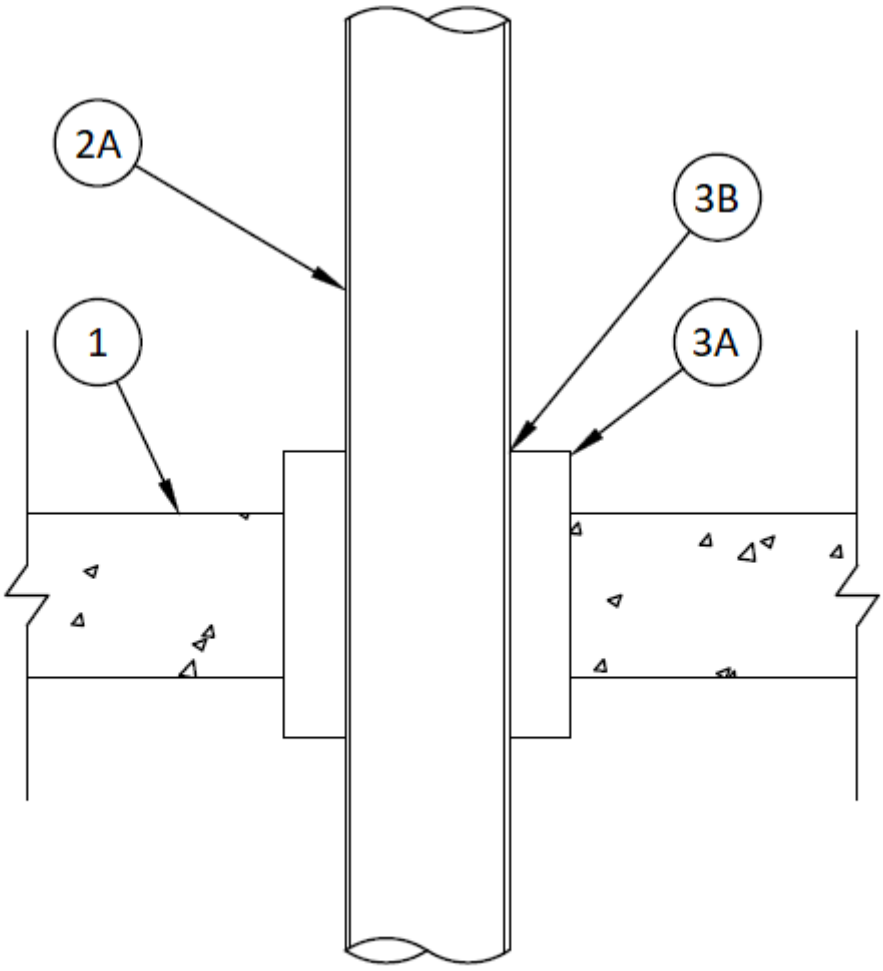
Through-penetration Firestop Systems

System No. **C-AJ-1758**

March 31, 2022

ANSI/UL1479 (ASTM E814)
F Rating — 2 Hr
T Rating — 1-1/2 Hr





1. **Floor or Wall Assembly** — Min 114 mm (4-1/2 in.) thick reinforced normal weight (2320-2480 kg/m^3 or 145-155 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening shall be 200 mm (7-7/8 in.).

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

2. **Through Penetrant** — One metallic conduit installed concentrically within the opening. The annular space within the firestop system shall be a nom 43 mm (1-3/4 in.). Penetrant to be rigidly supported on both sides of floor or wall. The following types and sizes of metallic conduit may be used:

A. **Conduit** – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or rigid steel conduit.

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

A. **Fill, Void or Cavity Materials*** — **Pillow** — Nom 200 mm (7-7/8 in.) long by 200 and 100 mm (7-7/8 and 3-15/16 in.) wide by 53 mm (2-1/8 in.) thick and nom 200 mm (7-7/8 in.) long by 100 and 50 mm (3-15/16 and 2 in.) wide by 28 mm (1-1/8 in.) thick pillows tightly-packed into the opening to fill annular space between the penetrant and periphery of opening. Pillows installed centered within the opening, edge first. If the floor is less than 200 mm thick, the pillows should either be extended from or flush with the top and bottom surface of the floor without recess from above and below. If the floor is equal to or greater than 200 mm thick, the pillows are to be flush with the bottom surface of the floor or recessed equally from both surfaces of the floor. The pillows should extend or recess equally from both surfaces of the wall.

FURUKAWA TECHNO MATERIAL CO LTD — Firestop Block 200L

B. **Fill, Void or Cavity Materials*** — **Putty** — Min 7 mm (5/16 in.) thick by 30 mm (1-3/16 in.) deep of fill material to be cut to proper width to completely fill any cavities within Item 3A.

FURUKAWA TECHNO MATERIAL CO LTD — Fire Stop Putty-BP

*** 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 2022-03-31
