

XHEZ.C-AJ-2935 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

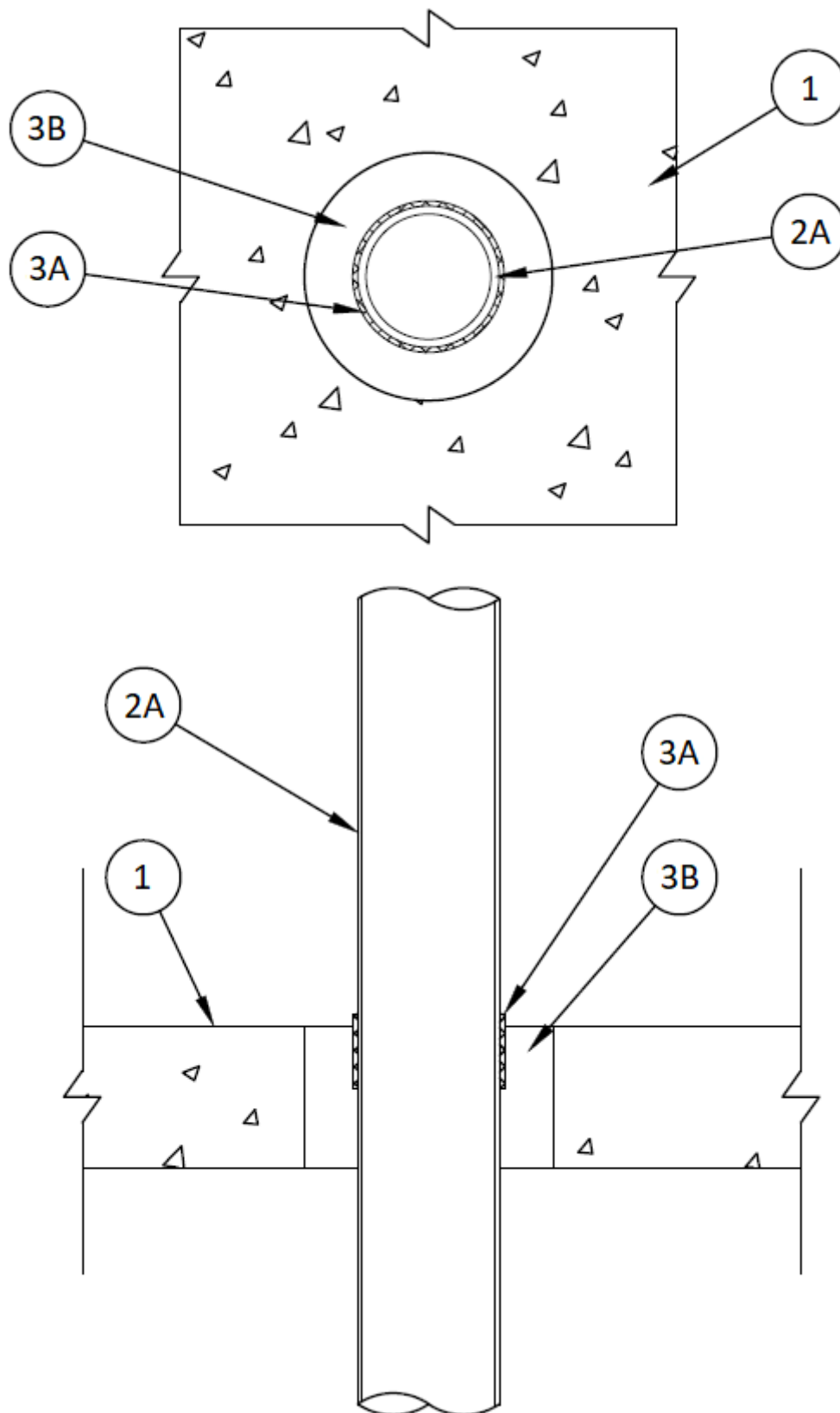
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies 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-2935**

March 31, 2022

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



System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. **Floor or Wall Assembly** — Min 114 mm (4-1/2 in.) thick reinforced normal weight (2320-2480 kg/m³ 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 nonmetallic pipe or tubing 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 nonmetallic pipes or tubing may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) piping systems.

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

A. **Fill, Void or Cavity Materials*** — **Putty** — Min 5 mm (1/4 in.) thick by 60 mm (2-3/8 in.) deep of fill material applied within the annulus, extending 10 mm (7/16 in.) beyond the top surface of floor or both surfaces of wall.

FURUKAWA TECHNO MATERIAL CO LTD — Firestop Sheet-BP

B. **Fill, Void or Cavity Materials*** — **Mortar** — Min 114 mm (4-1/2 in.) thickness of fill material installed flush with both surfaces of floor or wall to completely fill the gap between all the penetrants and the wall/floor opening. Mortar to be mixed at a rate of 1 part dry mixture to 0.8-1 part water by weight in accordance with the installation instructions supplied with the product.

FURUKAWA TECHNO MATERIAL CO LTD — Firestop Mortar

*** 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

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 Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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