



System No. C-AJ-2581 XHEZ.C-AJ-2581 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 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.

XHEZ - Through-penetration Firestop Systems

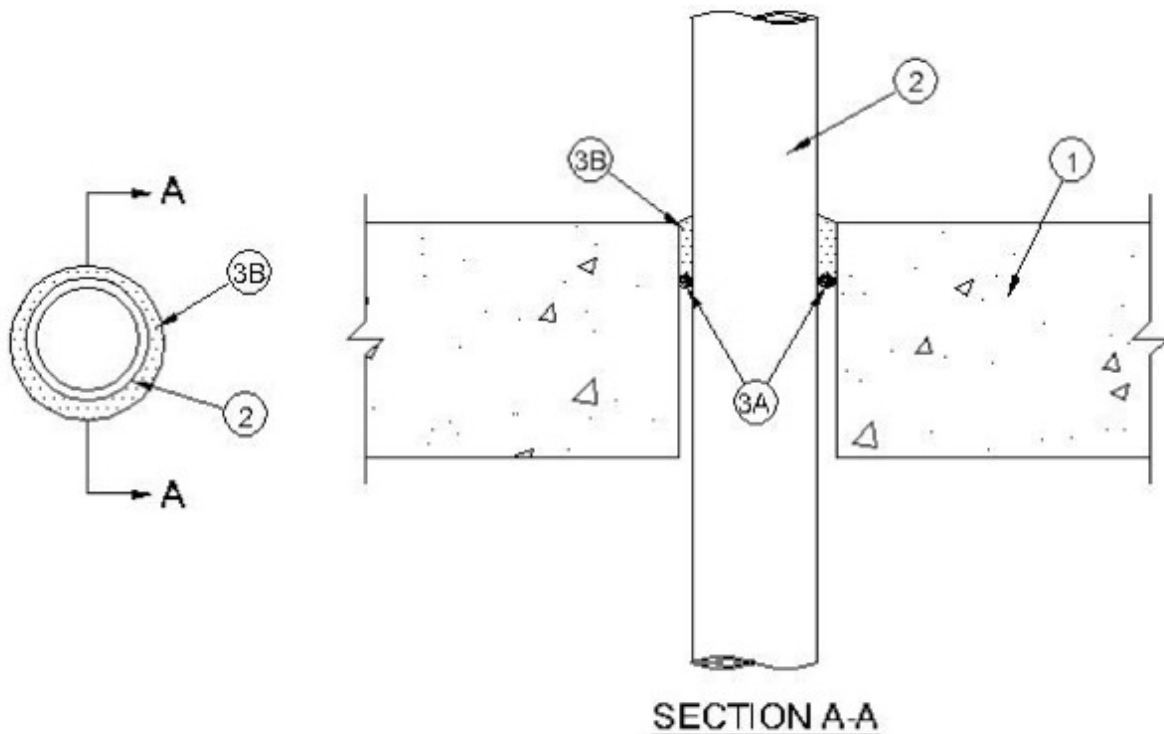
[See General Information for Through-penetration Firestop Systems](#)

System No. C-AJ-2581

April 22, 2016

F Rating — 2 Hr

T Ratings — 1/4 and 1-1/2 Hr (See Item 3)



1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced normal weight (140-150 pcf (1600-2400 kg/m³)) concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast**

Concrete Units*. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 5 in. (127 mm).

See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants — One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The max diam of pipe or conduit, annular space, thickness of caulk, type of system and T Rating shall be as specified in the table below. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain waste on vent) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 3 in. (76 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. **Rigid Nonmetallic Conduit+** — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

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

A. **Packing Material (Optional)** — Foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall and hollow-core precast concrete units as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Caulk** — Fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall and hollow-core precast concrete units as shown in the table below. When required, additional fill material to be installed such that a min 1/8 in. crown is formed around the penetrating item.

Max Diam of Pipe, In. (mm)	Annular Space, In.	Min Thkns of Caulk, In.	Crown Required	Type of System++	T-Rating Hr
2 (51)	1/4 to 3/8 (6 to 10)	1/2 (13)	Yes	C	1-1/2
2 (51)	3/4 to 1 (19 to 25)	2 (51)	No	C, V	1/4
3 (76)	3/4 to 7/8 (19 to 22)	2 (51)	No	C	1-1/2

++ C: Closed (process or supply) piping systems only. V: Vented (drain, waste or vent) piping systems.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Intumescent Sealant, A/D FIREBARRIER Intumescent Sealant II

+ Bearing the UL Listing Marking

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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