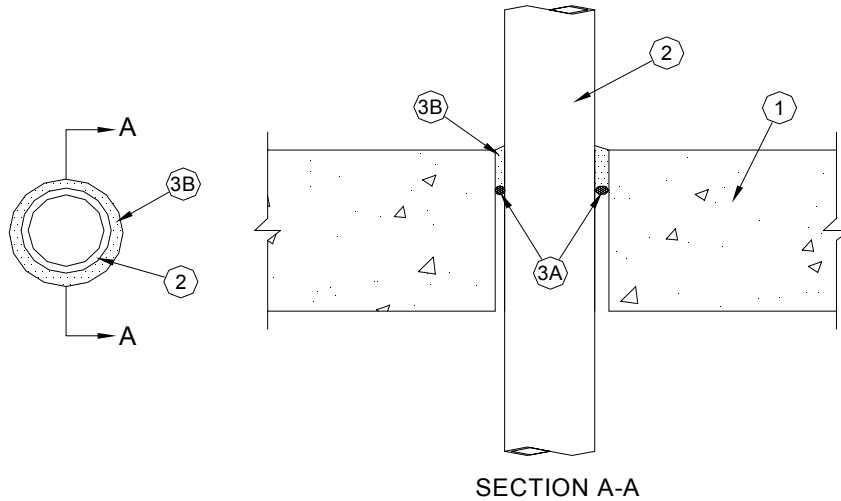


Through-penetration Firestop Systems
UL System No. C-AJ-2581
F Rating - 2 Hr
T Ratings - 1/4 and 1-1/2 Hr (See Item 3)



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. dia. 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. dia. 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) dia. (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) dia. (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - C. **Rigid Nonmetallic Conduit+** - Nom. 3 in. (76 mm) dia. (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.

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| Max Dia. 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 to10) | 1/2 (13) | Yes | C | 1-1/2 |
| 2 (51) | 3/4 to 1 (19 to25) | 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

+Bearing the UL Listing Marking

*Bearing the UL Classification Mark