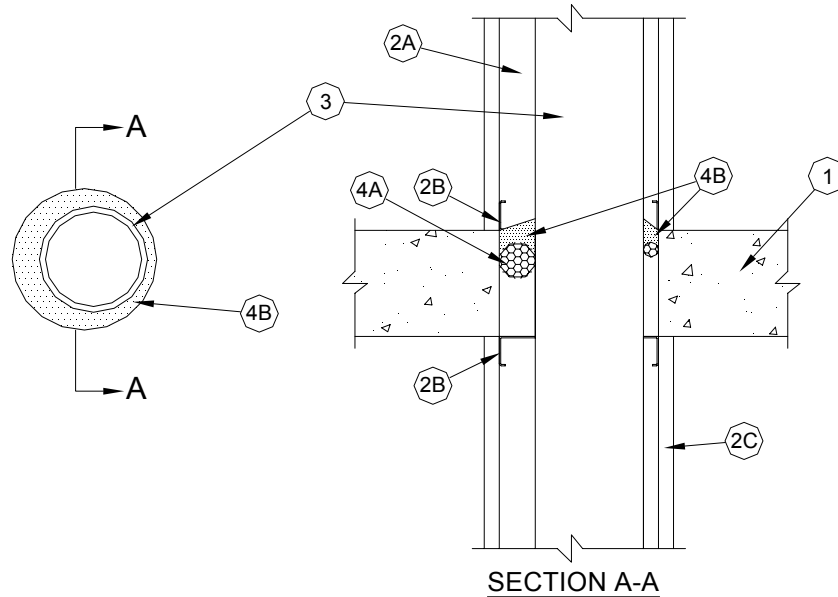


Through-penetration Firestop Systems
UL System No. F-A-2168
F Rating - 1 Hr
T Rating - 1 Hr



1. **Floor Assembly** - Min. 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf (1600-2400 kg/m³)) concrete. Max. dia. of opening is 6 in. (152 mm).
2. **Chase Wall** - The nonmetallic pipes (Item 2) shall be routed through a 1 hr fire-rated single, double or staggered steel stud/gypsum board chase wall constructed of the material and in the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Studs** - Wall framing shall consist of wood studs or steel channel studs. Wood studs to consist of 2 by 6 in. (51 mm by 152 mm) or double 2 by 4 in. (51 mm by 102 mm) lumber spaced 16 in. OC. steel studs to be min 6 in. wide and spaced 24 in. (406 mm) OC.
 - B. **Floor and Ceiling Runners** - Nom. 2 by 6 in. (51 mm by 152 mm) or parallel 2 by 4 in. (51 mm by 102 mm) lumber floor/ceiling runners, tightly butted or gal steel channel shaped floor/ceiling runners sized to accommodate the steel studs. Runners may be noncontinuous over opening, terminating at both sides of periphery of opening. Max. dia. of opening is 6 in. (152 mm).
 - C. **Gypsum Board*** - One layer of nom. 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design.
3. **Nonmetallic Pipe** - One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of opening shall be min. 0 in. (point contact) to max. 1-1/2 in. (38 mm). Pipe or conduit to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - A. **Polyvinyl Chloride (PVC) Pipe** - Nom. 4 in. (102 mm) dia. (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom. 4 in. (102 mm) dia. (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - C. **Rigid Nonmetallic Conduit+** - Nom. 4 in. (102 mm) dia. (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

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4. **Firestop System** - The firestop system shall consist of the following:

- A. **Packing Material** - (Optional) - Foam backer rod firmly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor as required to accommodate the required thickness of fill material.
- B. **Fill, Void or Cavity Material* - (Caulk)** - Min. 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor. Additional fill material to be installed such that a min 1/2 in. (13 mm) crown is formed around the penetrating item and lapping 1/2 in. (13 mm) beyond the periphery of the opening.

A/D FIRE PROTECTION SYSTEMS INC - A/D FIREBARRIER Intumescent Sealant

+Bearing the UL Listing Mark

*Bearing the UL Classification Marking