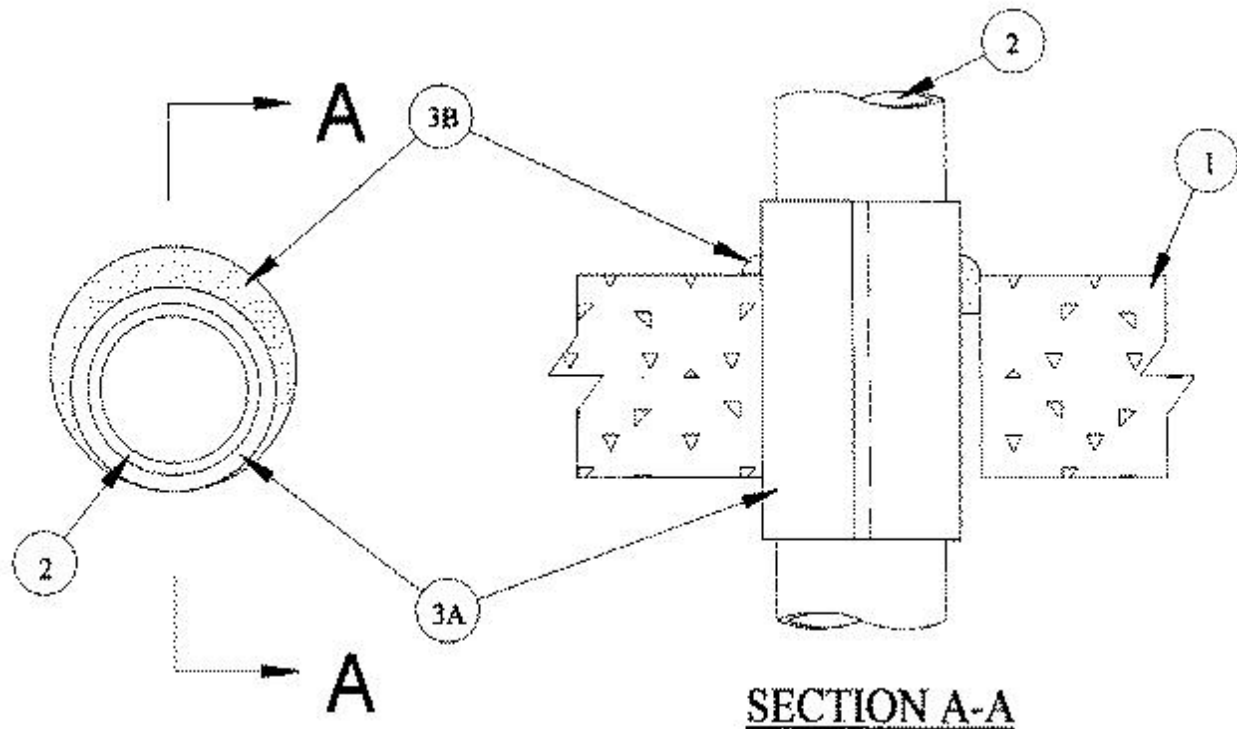


## System No. C-AJ-2210

March 09, 2011

F Ratings — 2 Hr

T Ratings — 0 Hr



1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced normal weight (140-150 pcf or 2240-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 10 in. (254 mm).

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

2. **Through Penetrant** — One nonmetallic pipe or conduit to be centered within the firestop system. A nom annular space of 5/8 in. (16 mm) is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of pipes and conduits may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 8 in. (203 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 8 in. (203 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. **Rigid Nonmetallic Conduit+** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code, (NFPA No. 70).

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

A. **Firestop Device** — Galv steel sleeve lined with an intumescent material sized to fit the specific diam of the through penetrant. Device to be wrapped around outer circumference of through penetrant with a min 3 in. wide overlap along its longitudinal joint and installed through the annular space of the opening. The device shall be secured together by means of min 1/2 in. (13 mm) wide by 0.028 in. (0.71 mm) thick stainless steel hose clamps or min 1/8 in. (3.2 mm) diam by 1/2 in. (13 mm) long steel pop rivets spaced max 4 in. (102 mm) OC. As an option, the

device may be secured together by means of 3/4 in. (19 mm) wide by 0.007 in. (0.18 mm) thick glass cloth electrical tape continuously wrapped twice around the outer circumference of firestop device, spaced a max 2 in. (51 mm) OC. In floors, the bottom edge of the device shall extend a nom 2-1/2 in. (64 mm) below the bottom surface of the floor. In walls having a nominal thickness of 4-1/2 in. (114 mm), the device shall be centered within the wall and extend equally beyond each surface of the wall. In walls having a nominal thickness greater than 4-1/2 in. (114 mm), two devices shall be installed within the opening with butted ends and extend equally beyond each surface of the wall.

**RECTORSEAL** — FlameSafe (TM) Intumescent Sleeve, Metacaulk Intumescent Sleeve or Biostop Intumescent Sleeve

**B. Fill, Void or Cavity Material\* — Sealant** — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. crown is formed around the through penetrant on top surface of floor or on both surfaces of wall. At point contact location between firestop device and concrete, a min 1/4 in. diam bead of fill material shall be applied at the concrete/firestop device interface on top surface of floor or on both surfaces of wall.

**RECTORSEAL** — FS1900, FS1901, FS1905, FS1929, Metacaulk 1000 or Biostop 500+ Sealant

\*Bearing the UL Classification Mark