

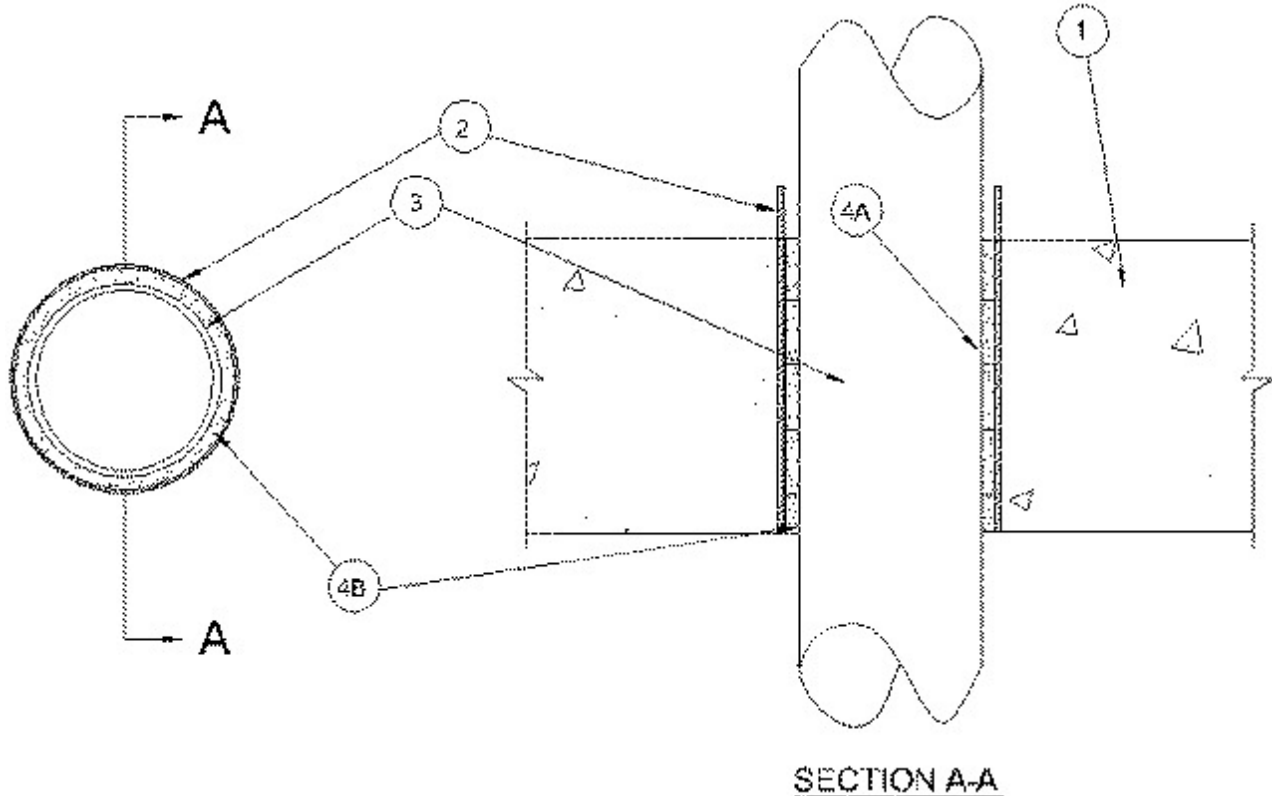
System No. C-AJ-2391

June 26, 2008

F Rating — 2 Hr

T Rating — 0 Hr

W Rating - Class 1 (See Item 4C)



1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor or min 5 in. thick thick reinforced lightweight or normal weight (100-150 pcf concrete wall. Wall assembly may also be constructed of any UL Classified **Concrete Blocks***. Floor may also be constructed of any min 8 in. thick UL Classified hollow core **Precast Concrete Units**. Max diam of opening is 5 in.

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

2. **Steel Sleeve** — (Optional - Not Shown) Cylindrical sleeve fabricated from 0.028 in. thick (No. 24 gauge) galv sheet steel and having a min 1 in. lap along the longitudinal seam. Length of steel sleeve to be 1/2 in. or 1 in. more than the overall thickness of the floor or wall, respectively, such that, when installed in circular opening, the end of the sleeve projects 1/2 in. from top surface of the floor or 1/2 in. from each surface of wall. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular openings in the concrete floor or wall.

3. **Through Penetrants** — One nonmetallic penetrant installed concentrically within the firestop system. The annular space between pipe and periphery of opening shall be 1/4 in. Pipe to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. **Polyvinyl Chloride (PVC)** — Pipe Nom 4 in. diam (or smaller) Schedule 40 (or heavier) solid core or cellular 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 4 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

4. **Firestop System** — The details of the firestop system shall be as follows:

A. **Fill, Void or Cavity Materials* - Wrap Strip** — 3/4 One layer of nom 1/4 in. thick intumescent elastomeric material faced on one side with a plastic film, supplied in 1 or 2 in. wide strips. Wrap strips individually wrapped around nonmetallic pipe (film side exposed) with ends butted and held in place with tape or tie wire. Wrap strip positioned with lower edge recessed 1/2 in. from bottom of floor or wall. Two stacks, one layer each, of wrap strip required when 2 in. wide wrap strips are used or four stacks, one layer each, of wrap strip required when 1 in. wide wrap strips are used.

RECTORSEAL — Biostop Wrap Strip

B. **Fill, Void or Cavity Materials* — Caulk** — Min 1/2 in. thickness of fill material applied within annulus flush with bottom of floor or both surfaces of wall.

RECTORSEAL — Biostop 500+

C. **Fill, Void or Cavity Materials* - Caulk** — (Optional, Not Shown) Min 1/4 in. thickness of fill material applied within the annulus, flush with the top surface of floor or with both surfaces of wall.

RECTORSEAL — Biostop 750

W-Rating only applies when Biostop 750 is used

*Bearing the UL Classification Mark