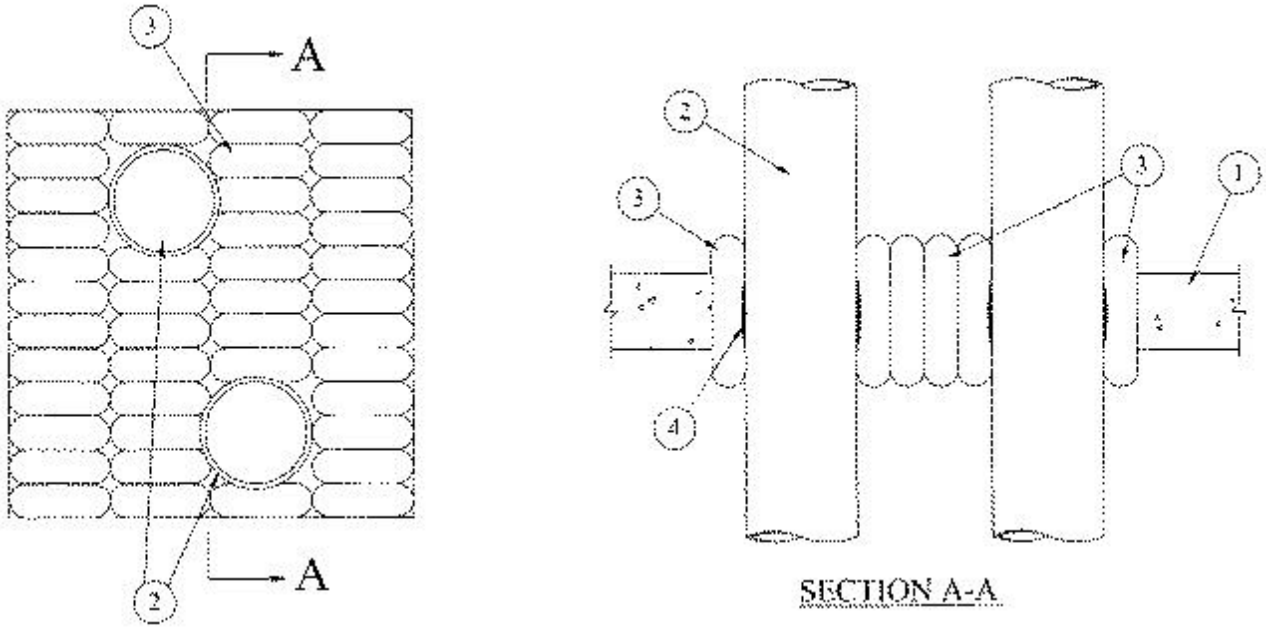
System No. C-AJ-1368

December 07, 2000

F Rating — 3 Hr

T Rating — 1 Hr



1. **Floor or Wall Assembly —** Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max are of opening not to exceed 576 sq. in. with a max dimension of 24 in.

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

2. **Through Penetrant —** Two metallic pipes to be installed within opening. The annular space between the through penetrant and the periphery of the opening shall be min 4 in. to a max of 13-1/2 in. Through penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipe or conduit may be used:

A. **Steel Pipe —** Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 6 in. diam (or smaller) cast or ductile iron pipe.

C. **Steel Conduit —** Nom 6 in. diam (or smaller) rigid steel conduit.

D. **Electrical Metallic Tubing —** Nom 4 in. diam (or smaller) steel electrical metallic tubing.

3. **Fill, Void or Cavity Material* — Pillows —** Max 6 in. long by 9 in. wide by 3 in. thick plastic covered intumescent pillows tightly packed into opening filling annular space between penetrants and between penetrant and periphery. Pillows installed with 9 in. dimension projecting through floor or wall and centered within opening.

RECTORSEAL — Biostop Pillows

4. **Fill, Void or Cavity Material* — Caulk —** Prior to installation of pillows, min 1/4 in. by 1 in. wide strip of fill material applied to through penetrants at mid depth of concrete floor or wall. After installation of pillows, min 1/4 in. depth of fill material applied to seal any voids between pillows and periphery of opening, between pillows and through penetrants and between pillows on the top surface of floor or both surfaces of wall.

RECTORSEAL — Biostop 500+

*Bearing the UL Classification Mark