

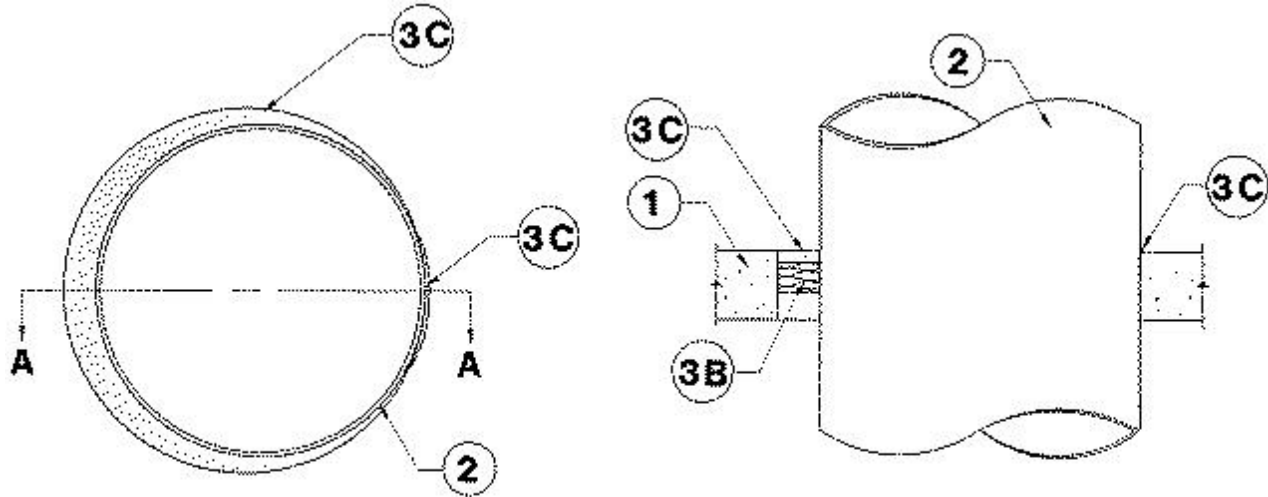


### System No. C-AJ-1114

January 11, 1999

F Rating — 3 Hr

T Rating — 0 Hr



### SECTION A-A

1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100 to 150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Floor may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units\***. Max diam of opening in solid lightweight or normal weight concrete floor or wall is 27 in. Max diam of opening in hollow-core precast concrete unit floor is 7 in.

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

2. **Steel Pipe** — Nom 21 in. diam (or smaller) 0.056 in. thick (or heavier) steel pipe. One pipe to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. (point contact) to max 3 in. Pipe to be rigidly supported on both sides of floor or wall assembly.

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

A. **Steel Wire Mesh** — (Not Shown) — Where needed to aid in system installation in hollow-core floor or concrete block wall construction, No. 8 steel wire mesh or min 0.034 in. thick (20 MSG) galv sheet steel may be formed, centered and installed within the through opening such that it is recessed a min of 1/8 in. from each surface of the floor or wall.

B. **Packing Material** — Min 2 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. When floor is constructed of hollow-core precast concrete units, packing material is to be installed symmetrically on both sides of floor.

C. **Fill, Void or Cavity Material\*** — Caulk — Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/2 in. diam bead of caulk shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. When floor is constructed of hollow-core precast concrete units, fill material is to be installed symmetrically on both sides of floor, flush with floor surfaces.

\*Bearing the UL Classification Mark