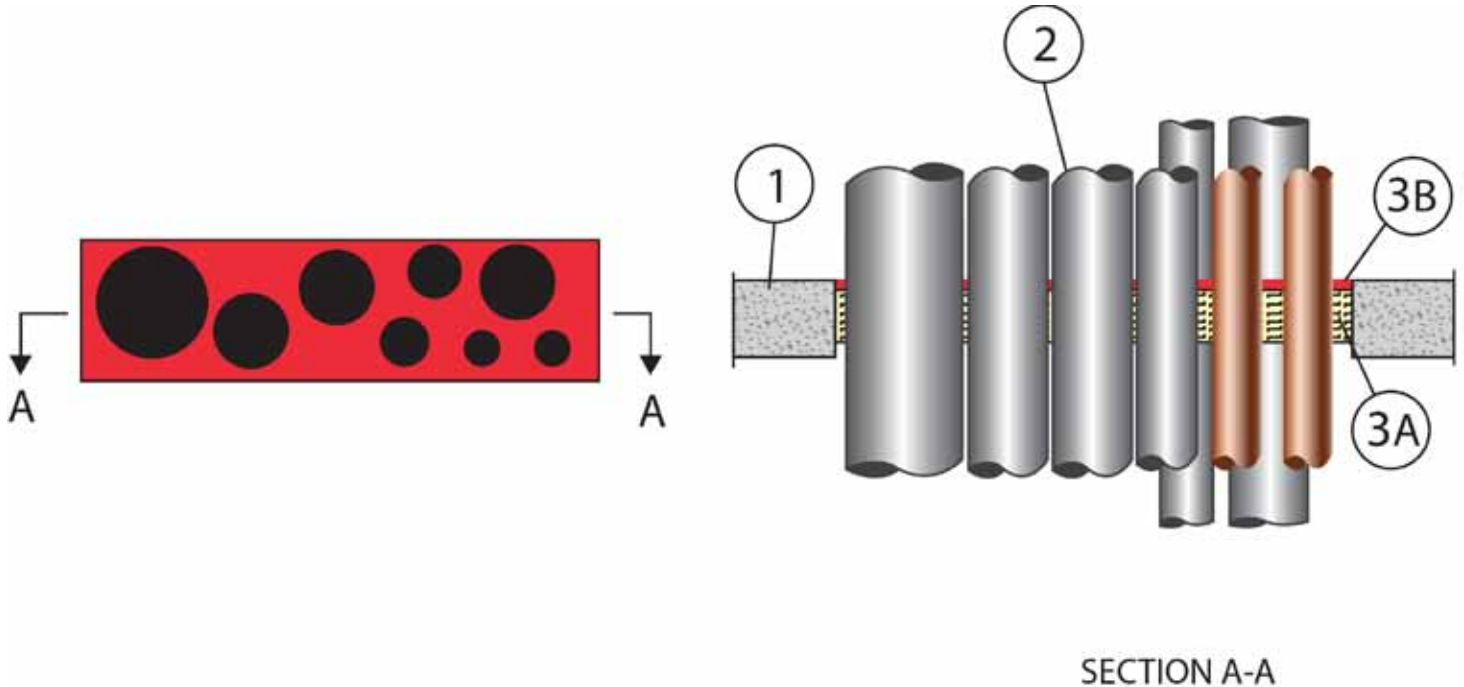


## System No. C-AJ-8197

October 20, 2008

F Rating – 2 Hr

T Rating – 0 Hr



**1. Floor or Wall Assembly – Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete floor. Wall may also be constructed of any UL classified Concrete Blocks\*. Max area of opening is 240 sq in. (1548 sq cm) with max dimension of 30 in. (762 mm).**

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

**2. Through-Penetrants – Max eight pipes, conduits or tubing to be installed within the opening. The space between pipes, conduits or tubing shall be a min 1/2 in. (13 mm) to max 2-3/4 in. (70 mm). The space between pipes, conduits or tubing and periphery of opening shall be min 0 in. (point contact) to max 3-1/4 in. (83 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of pipes, conduits or tubing may be used:**

- A. Copper Pipe – Nom 3 in. (76 mm) diam (or smaller) regular (or heavier) copper pipe.**
- B. Copper Tubing – Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tubing.**

- C. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.**
- D. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or rigid steel conduit.**
- E. Flexible Metal Gas Pipe — Nom. 2 in. (102 mm) diam (or smaller) with PVC jacket GASTITE, DIV OF TITEFLEX**

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

**A. Packing Material — Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.**

**B. Fill, Void or Cavity Material\* — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor and both surfaces of wall. Thickness of fill material may be reduced to 1/4 in. (6 mm) when min 4 in. (102 mm) of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation is used as described above,. A min 1/4 in. (6 mm) diam bead of caulk shall be applied to the penetrant/opening interface at the point contact location on the top surface of floor or both surfaces of wall.**

**FLAME TECH INC — Firestop-814+**

**\*Bearing the UL Classification Mark**