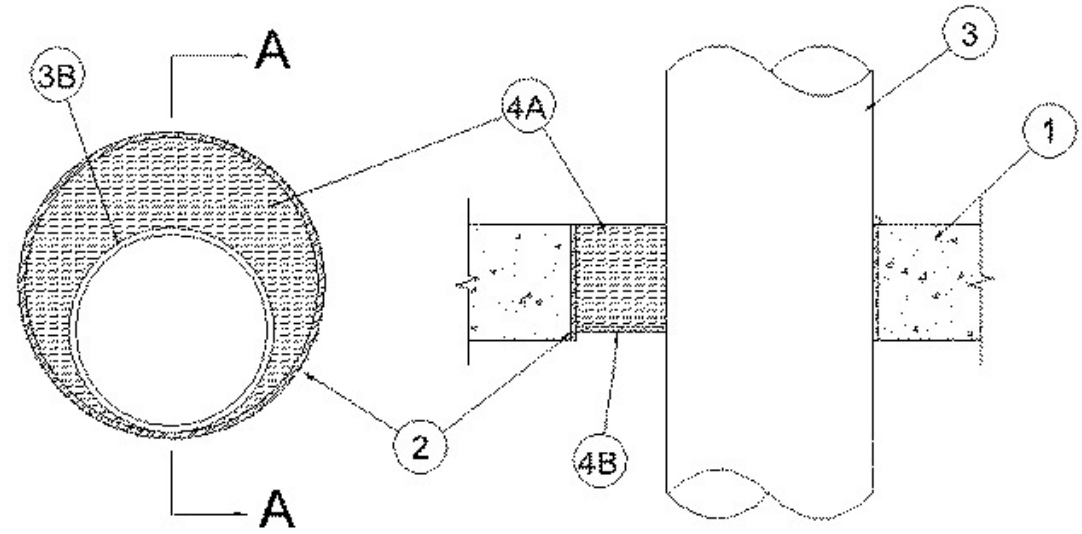
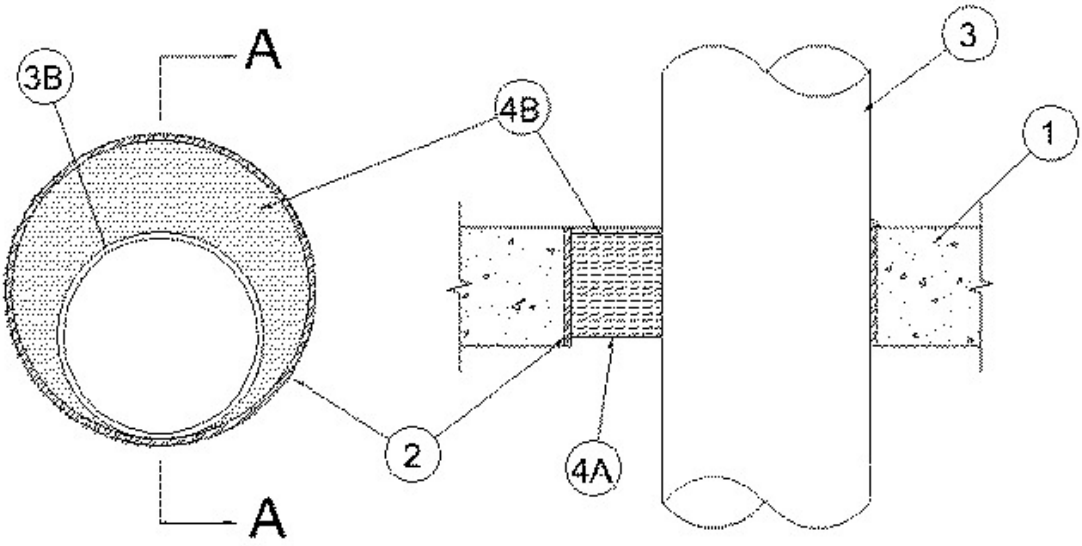
UL System No. C-AJ-1450

July 17, 2003
F Rating — 2 Hr
T Rating — 0 Hr



SECTION A-A



SECTION A-A

FIRESTOP CONFIGURATION B

1. **Floor or Wall Assembly —** Min 4-1/2 in. thick reinforced normal weight (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 is 12 in. . If the firestop system is installed within a hollow-core precast concrete unit, max dimension of opening shall be 7 in.

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

2. **Steel Sleeve —** (Optional) — Nom 12 in. diam (or smaller), Schedule 40 (or heavier) steel pipe cast or grouted into the floor or wall assembly, flush with floor or wall surfaces.

3. **Through Penetrants —** One metallic pipe to be installed concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of the opening shall be min 0 in. (point contact) to max 3-3/8 in. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of pipes may be used:

A. **Steel Pipe —** Nom 8 in. diam (or smaller), Schedule 40 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 8 in. diam (or smaller) cast or ductile iron pipe.

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

Firestop Configuration A

A. **Packing Material —** Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from bottom surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. When the floor is constructed of hollow-core precast concrete units, packing material shall be recessed from bottom surface of floor to accommodate the required thickness of fill material and installed flush with top surface of floor.

B. **Fill, Void or Cavity Materials* —** Sealant - Min 3/16 in. wet thickness of seal applied within the annulus, flush with the bottom surface of floor or on both surfaces of wall assembly . At the point contact location between through-penetrant and steel sleeve or concrete, a min 3/16 in. diam bead of fill material shall be applied at the concrete or steel sleeve/through-penetrant interface on the top surface of the floor or both surfaces of the wall.

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Firestop Configuration B

A. **Packing Material —** Min 4 in. thickness of min 4 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 the floor is constructed of hollow-core precast concrete units, packing material shall be recessed from both surfaces of floor to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* —** Sealant - Min 3/16 in. wet thickness of seal applied within the annulus, flush with top surface of floor or on both surfaces of wall assembly. When the floor is constructed of hollow-core precast concrete units, fill material shall be installed flush with both surfaces of floor. At the point contact location between through-penetrant and steel sleeve or concrete, a min 3/16 in. diam bead of fill material shall be applied at the concrete or steel sleeve/through-penetrant interface on the top surface of the floor or both surfaces of the wall and hollow-core precast concrete units.

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*Bearing the UL Classification Marking