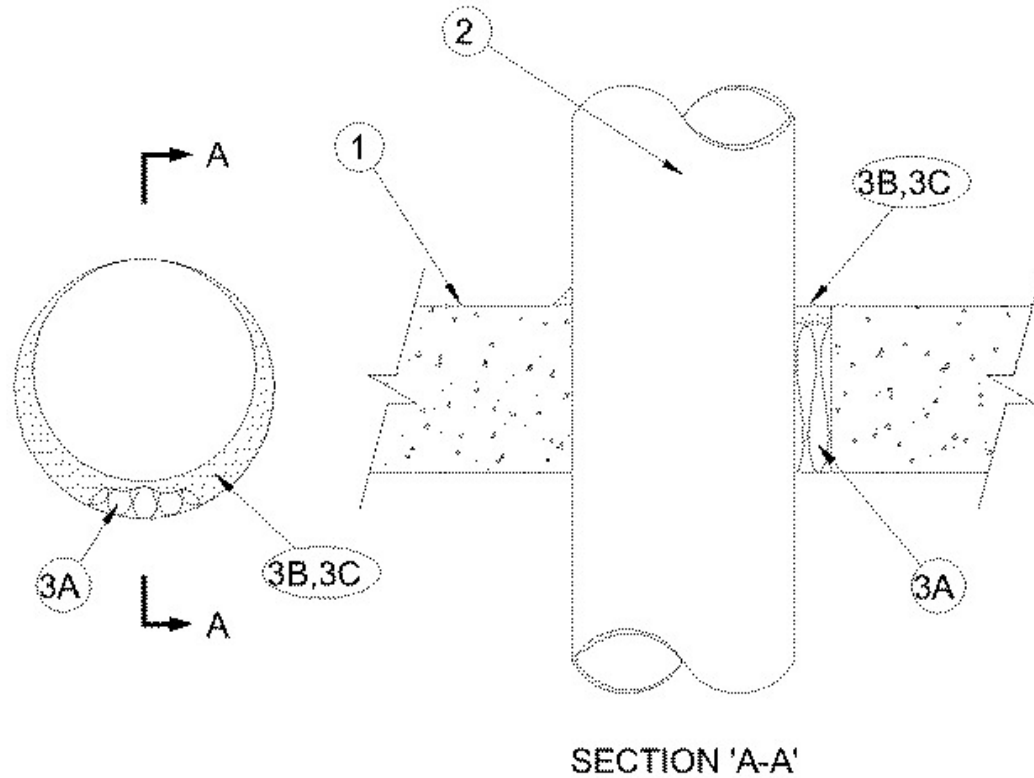


UL System No. C-AJ-1497

November 19, 2003

F Rating — 3 Hr

T Rating — 0 Hr



1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Floor may also be constructed of any min 6 in. thick hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 1-1/8 in. larger than diam of through-penetrant (Item 2). Max diam of opening in floors constructed of hollow-core precast concrete units is 7 in.

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

2. Through-Penetrant — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be min 0 in. (point contact) to max 1-1/8 in.. The following types and sizes of pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 24 in. diam (or smaller) cast or ductile iron pipe.

C. **Conduit** — Nom 6 in. diam (or smaller) steel electrical metallic tubing or steel conduit (EMT).

D. **Copper Pipe or Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

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

A. Packing Material — Min 4 in. thickness of 4.0 pcf mineral wool batt insulation firmly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall and hollow-core precast concrete floor as required to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* - Sealant — Min ½ in. thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall and hollow-core precast concrete floor. At the point contact location between through penetrant and concrete, a min ½ in. diam bead of fill material applied at the concrete/through penetrant interface on the top surface of floor and on both surfaces of wall and hollow-core precast concrete floor.

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C. Fill, Void or Cavity Materials* - Sealant — Min ½ in. thickness of fill material applied within the annulus, flush with top surface of floor only. (For horizontal installations only, excluding hollow-core precast concrete floors). At the point contact location between through penetrant and concrete, a min ½ in. diam bead of fill material (item 3B.) applied at the concrete/through penetrant interface on the top surface of floor.

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*Bearing the UL Classification Mark