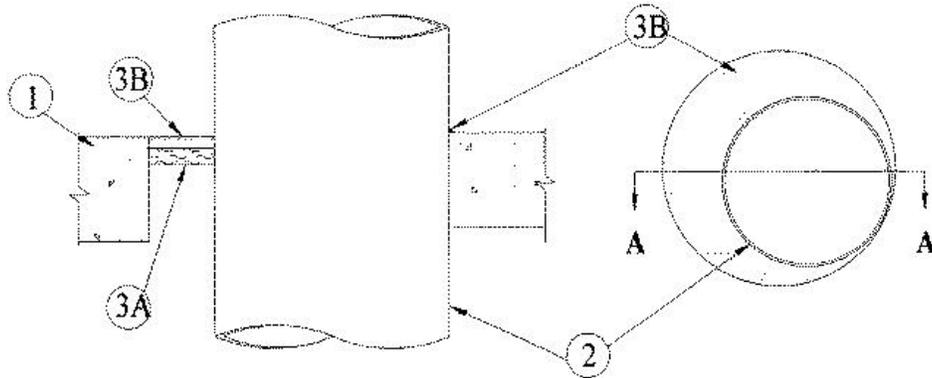


**F Rating — 3 Hr**  
**T Rating — 1/4 Hr**



**SECTION A-A**

**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\***. 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 14 in. Max diam of opening in hollow-core precast 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 10 in. diam (or smaller) Schedule 10 (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. to max 3-1/4 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. Packing Material** — Mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of solid concrete floor, or from both surfaces of wall or hollow-core floor as required to accommodate the required thickness of fill material. As an option to the above, backer rod and/or foamed plastic backer material may be used.

**B. Fill, Void or Cavity Material\*** — Caulk — Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of solid concrete floor, or with both surfaces of wall or hollow-core floor. At the point contact location between pipe and concrete, a min 1/2 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of solid concrete floor and on both surfaces of wall or hollow-core floor.

**RECTORSEAL** — [MC-150 Caulk](#)

\*,+ Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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