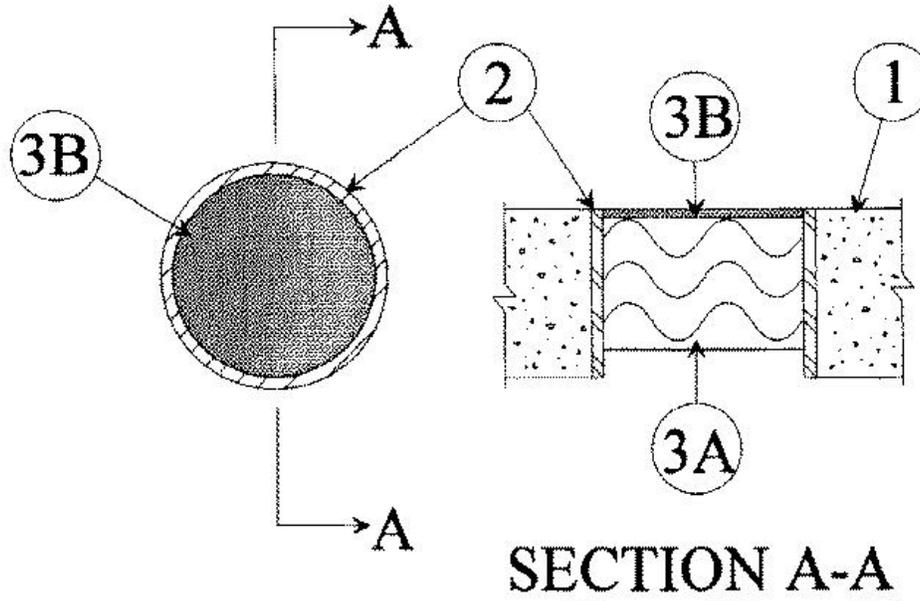


**F Rating — 3 Hr**  
**T Ratings — 1, 2 & 3 Hr (See Item 2)**  
**L Rating at Ambient — Less Than 1 CFM/sq ft**  
**L Rating at 400 F — 3 CFM/sq ft**  
**W Rating — Class 1**



**1. Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced light-weight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Max diam of opening is 6 in. See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

**2. Sleeves (Optional)** — The following sleeves may be used:

**A. Nonmetallic Sleeve** — Nom 6 in. diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces. **T Rating is 2 Hr when PVC sleeve is used.**

**B. Metallic Sleeve** — Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces. **T Rating is 1 Hr when metallic sleeve is used.**

**T Rating is 3 Hr when no sleeve is used.**

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

**A. Packing Material** — Min 3-3/4 in. thickness of min 4.5 pcf mineral wool batt insulation tightly 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.

**B. Fill, Void or Cavity Material\* — Caulk** — Min 1/4 in. thickness of fill material applied within the annulus, flush with the top surface of floor or with both surfaces of wall.

**RECTORSEAL** — [Metacaulk 835+](#)

\*,+ 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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