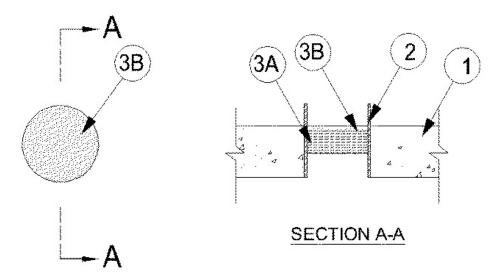




F Rating — 2 Hr T Ratings — 1-3/4 & 2 Hr (See Item 2) W Ratings - Class 1 (See Item 2)



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100- $\frac{150}{150}$ pcf or 1600-24009 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 in. (152 mm)

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

- 2. **Steel Sleeve** (Optional) Cylindrical sleeve fabricated from 0.036 in. (0.9 mm) thick (No. 20 gauge) galv sheet steel and having a min 1 in. (25 mm) lap along the longitudinal seam. Steel sleeve to project max 2 in. (51 mm) beyond the top surface of the floor or both surfaces of the wall. Sleeve cast of grouted in the concrete floor or wall.
- T Rating is 2 Hr when no sleeve is used. W Rating applies when no sleeve is used and max opening size is 2-1/2 in. (64 mm).
- 3. **Firestop System** The firestop system shall consist of the following:
 - A. **Packing Material** Min 2 in.(51 mm) thickness of min 4 pcf (64 kg/m³) 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 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with the top surface of floor or with both surfaces of wall. **RECTORSEAL** MC150+

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