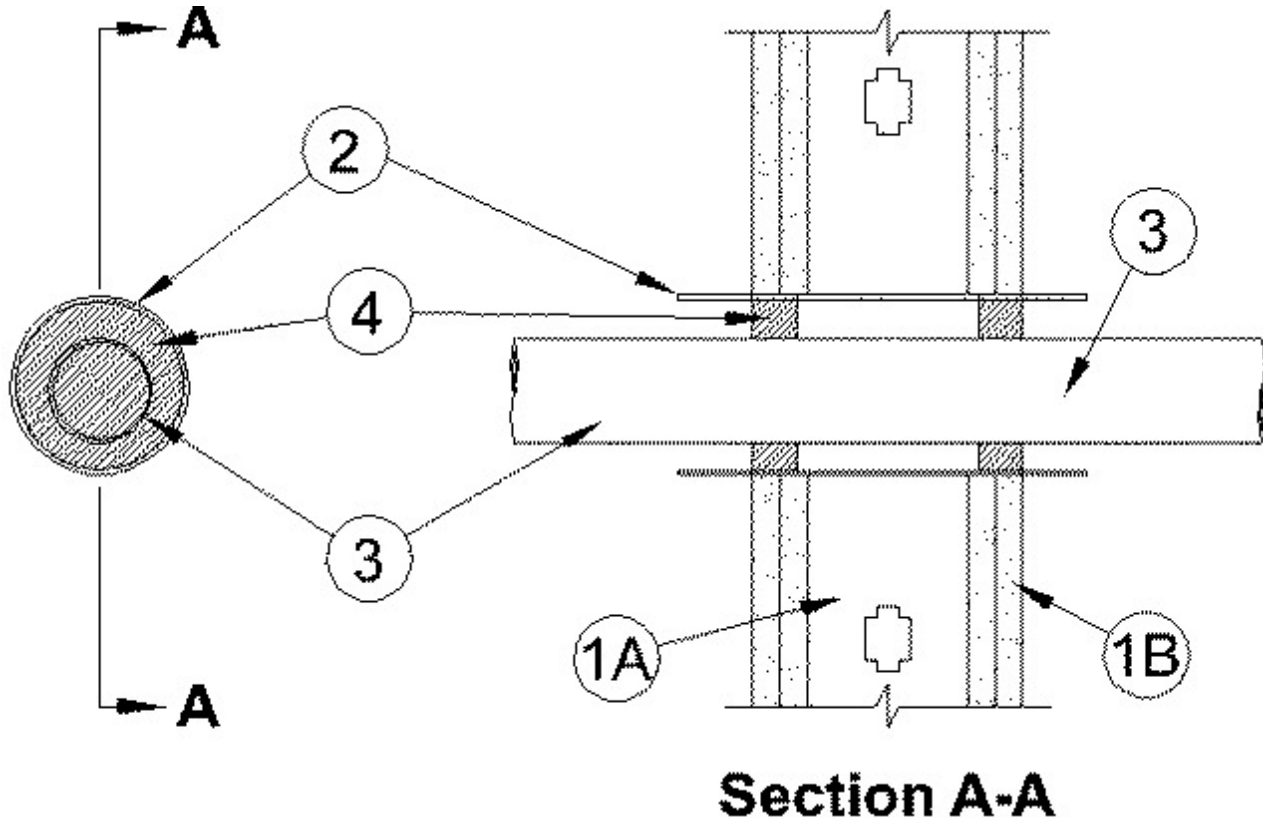


System No. W-L-2438

June 24, 2005

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0 and 1/4 Hr (See Item 1)



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

A. Studs — Wall framing shall consist of min 3-5/8 in. wide steel channel studs spaced max 24 in. OC.

B. Gypsum Board* — One or two layers of nom 1/2 or 5/8 in. (13 or 16 mm) thick gypsum board as specified in the individual Wall and Partition Design. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 4 in. (102 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The T Ratings are 0 and 1/4 hr when installed in 1 and 2 hr rated walls, respectively.

2. Steel Sleeve — Cylindrical sleeve fabricated from min 0.021 in. (0.5 mm) thick (26 gauge) galv sheet steel and having a min 1 in. (25 mm) lap along the longitudinal seam. Steel sleeve to be 2 in. (51 mm) longer than the thickness of wall such that, when installed, the ends of the sleeve will project up to 1 in. (25 mm) beyond each surface of the wall. Sleeve installed by coiling the sheet steel to a diam smaller than the opening, inserting the coil through the opening and releasing the coil.

3. Through Penetrants — Nom 51 mm (2 in.) diam (or smaller) Schedule 40 cellular core polyvinyl chloride (PVC) pipe installed eccentrically or concentrically within the firestop system. An annular space between penetrant and edge of sleeve shall be min 1/2 in. (13 mm) to max 1-1/8 in. (29 mm). Pipe to be rigidly supported on both sides of wall assembly.

4. **Fill, Void or Cavity Materials*** — (Caulk) Min 5/8 in. (16 mm) thickness of caulk applied within the annulus, flush with both surfaces of wall.

RECTORSEAL — BF 150+

*Bearing the UL Classification Mark