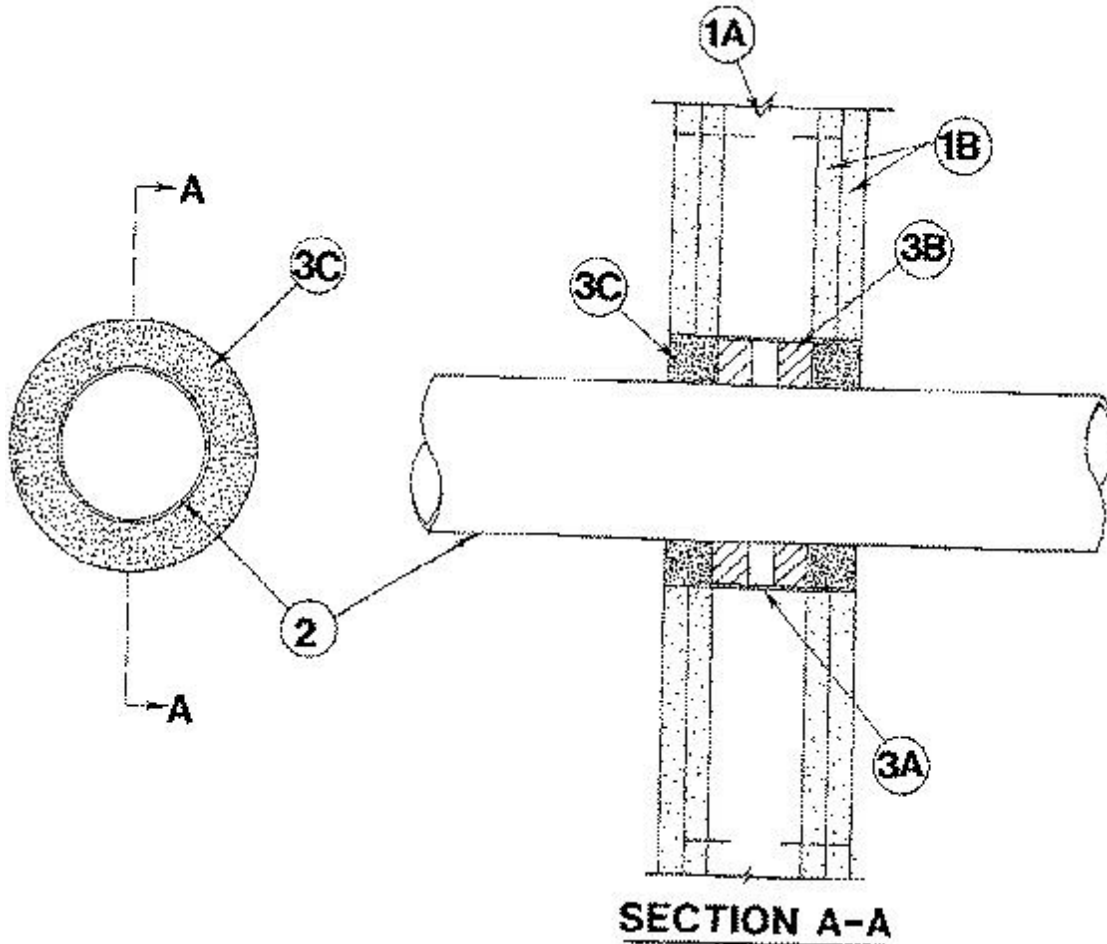


## System No. W-L-1134

November 12, 1997

F Rating — 2 Hr

T Rating — 1/4 Hr



1. **Wall Assembly** — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. **Gypsum Board\*** — Two layers of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 8 in.

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be centered within the firestop system. A nom annular space of 1/2 in. is required within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Conduit** — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

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

A. **Steel Sleeve or Wire Mesh** — No. 8 steel wire mesh having a min 1 in. lap along the longitudinal seam. Length of sleeve to be 1/4 to 1/2 in. less than overall thickness of wall such that, when installed in circular opening, the ends of the sleeve are recessed 1/8 to 1/4 in. from each surface of the wall. Sleeve may also be formed of min 0.034 in thick (20 MSG) galv sheet steel.

B. **Packing Material** — Min 1 in. thickness of mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall 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.

C. **Fill, Void or Cavity Material — Caulk\*** — Min 1-1/4 in. thicknes of fill material applied within the annulus, flush with both surfaces of wall.

**RECTORSEAL** — Biotherm 100

\*Bearing the UL Classification Mark