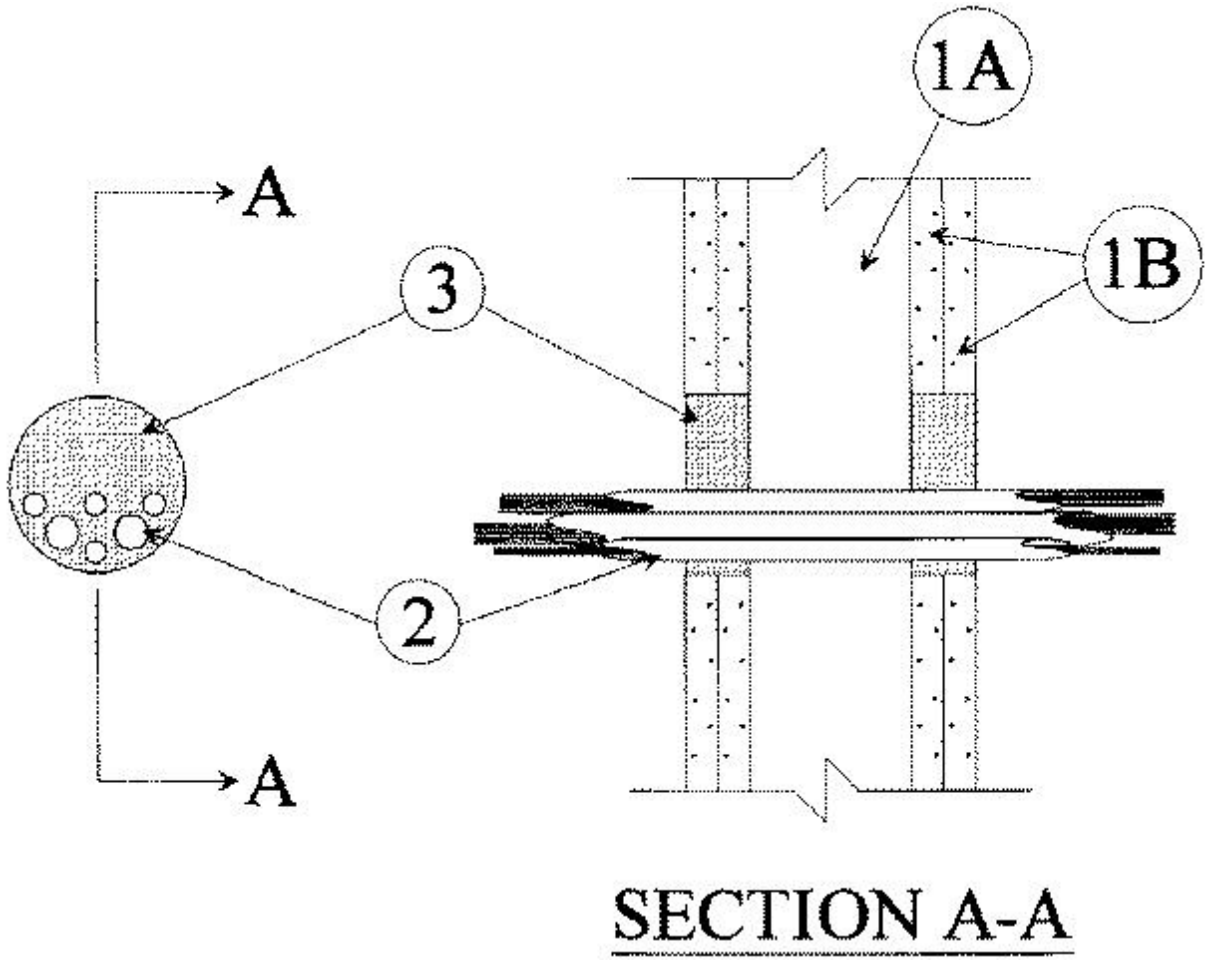
System No. W-L-3102

November 04, 1997

F Rating — 2 Hr

T Rating — 1/2 Hr



SECTION A-A

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 4 in.

2. **Cables —** Aggregate cross-sectional area of cables in opening to be max 37 percent of the aggregate cross-sectional area of the opening. Annular space between cables and edge of opening shall be min 0 in. (point contact) to max 2-1/2 in. Separation between cables shall be min 1/8 in. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:

A. Max 3/C No. 2 AWG polyvinyl chloride (PVC) jacketed aluminum clad cable with cross-linked polyethylene (XLPE) insulation.

B. Max 2/C No. 14 AWG polyvinyl chloride (PVC) jacketed aluminum clad cable with cross-linked polyethylene (XLPE) insulation.

C. Max 100 pair No. 24 AWG cables with polyvinyl chloride (PVC) insulation and jacket.

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

RECTORSEAL — Biotherm 100

*Bearing the UL Classification Mark