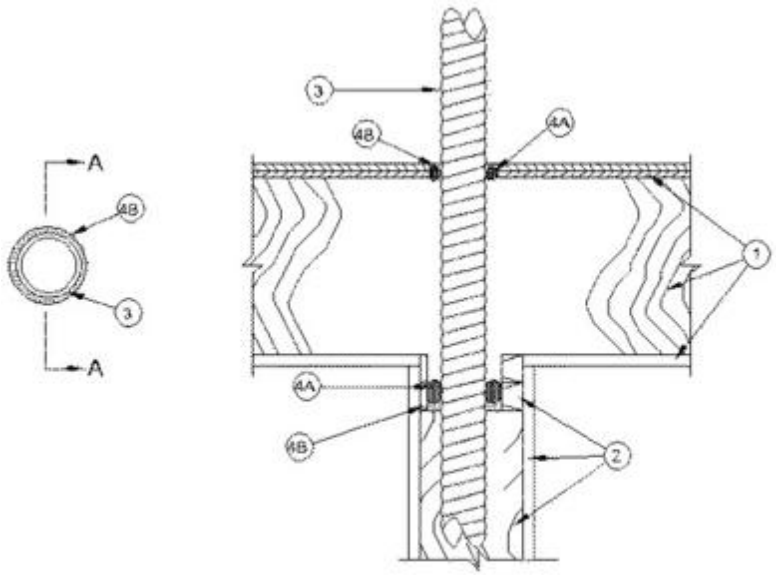
Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. F-C-1140

September 27, 2005

F Rating 1 Hr



SECTION A-A

1. **Floor - Ceiling Assembly** □ The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory, as summarized below:

A. **Flooring System** □ Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 4-1/2 in. (114 mm).

B. **Wood Joists** □ Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.

C. **Gypsum Board*** □ Nom 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design.

2. **Chase Wall** □ The through penetrant (Item 3) shall be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** □ Nom 2 by 6 in. (51 by 152 mm) lumber or double nom 2 by 4 in. (51 by 102 mm) lumber studs.

B. **Sole Plate** □ Nom 2 by 6 in. (51 by 152 mm) lumber or parallel 2 by 4 in. lumber plates, tightly butted.

C. **Top Plate** □ The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) lumber plates or two sets of parallel 2 by 4 in. (51 by 152 mm) lumber plates, tightly butted. Diam of opening to be 4-1/2 in. (114 mm).

D. **Gypsum Board*** □ Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

3. **Through Penetrating Product* - Flexible Metal Piping** □ Nom 2 in. (51 mm) diam (or smaller) steel flexible metal piping installed concentrically or eccentrically within the firestop system. The annular space shall be min 9/16 in. (14 mm) to max 1-1/4 in. (32 mm). Piping to be rigidly supported on both sides of floor assembly. **WARD MFG INC**

4. **Firestop System** □ The firestop system shall consist of the following:

A. **Packing Material** □ Foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from top surface of subfloor and bottom surface of the lower top plate as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* - Caulk** □ Min 1/4 in. (6 mm) thickness of fill material applied within annulus, flush with top surface of subfloor and min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with bottom surface of lower top plate. **RECTORSEAL** □ Biostop 350i

*Bearing the UL Classification Mark

Last Updated on 2005-09-27