Through-penetration Firestop Systems

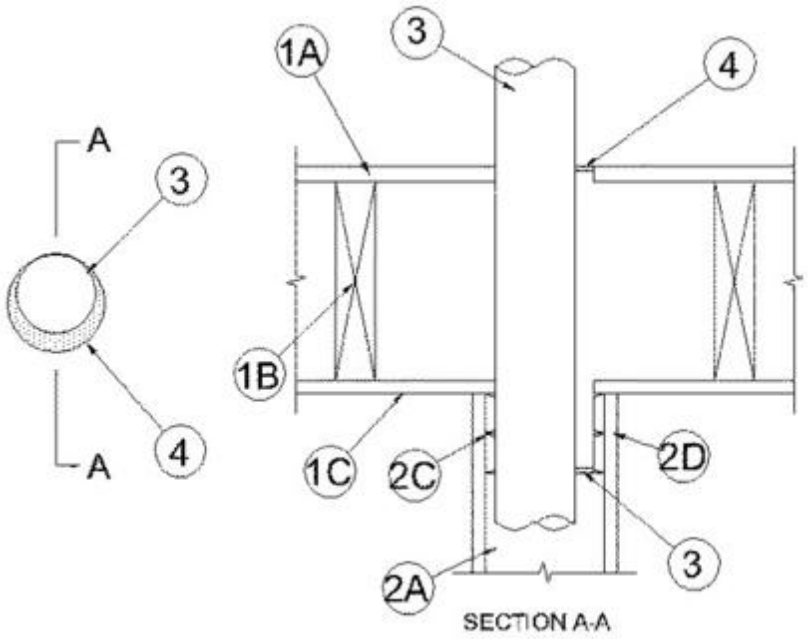
See General Information for Through-penetration Firestop Systems

System No. F-C-7039

September 27, 2005

F Rating 1 Hr

T Rating 0 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. Gypsum board secured to joists 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 board 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. (51 by 102 mm) 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 nom 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is 4-1/2 in. (114 mm).

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

3. **Through Penetrant** □ One metallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space shall be 0 in. (point contact) to max 1/2 in. (13 mm). Pipe to be rigidly supported on both sides of floor-ceiling assembly. The following type and size of metallic pipe may be used:

A. **Steel Duct** □ Nom 4 in. (102 mm) diam, min 30 gauge rigid steel duct.

4. **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. Min 1/2 in. (13 mm) thickness of fill material applied within annulus flush with bottom surface of lower top plate. At point contact location, a min 1/2 in. (13 mm) diam bead of fill material shall be applied to the penetrant/opening interfaces on top surface of subfloor and bottom surface of lower top plate. **RECTORSEAL** □ Biostop 350i

*Bearing the UL Classification Mark

Last Updated on 2005-09-27