



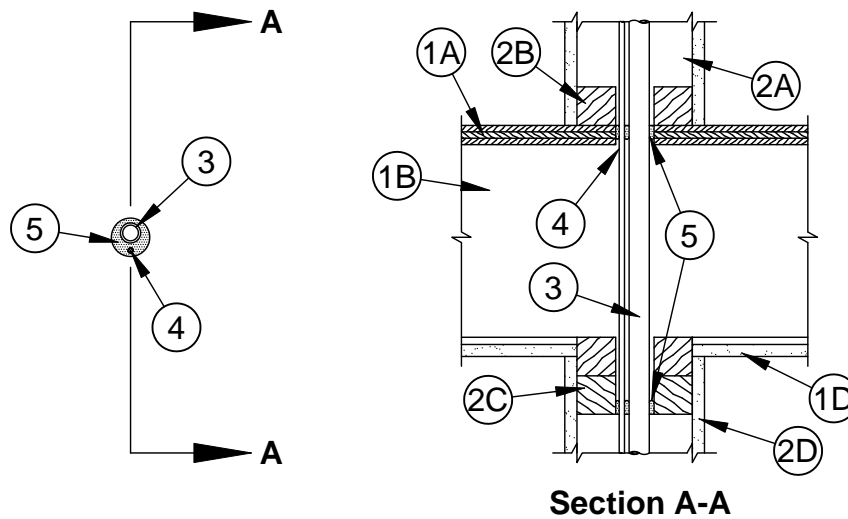
System No. F-C-8004

F Rating - 1 Hr

T Rating - 1 Hr

L Rating at Ambient - Less Than 1 CFM/sq ft

L Rating at 400° F - Less Than 1 CFM/sq ft



1. **Floor-Ceiling Assembly** - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling 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 2 in. (51 mm).
 - B. **Wood Joists** - Nom 2 by 10 in. (51 by 254 mm) lumber joists spaced 16 in. OC with nom 1 by 3 in. (25 by 76 mm) lumber bridging and with ends firestopped. As an alternate to lumber 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 with ends firestopped.
 - C. **Furring Channels** - (Not Shown) - Resilient galv steel furring installed perpendicular to wood joists (Item 1B) between wallboard (Item 1D) and wood joists or furring channels as required in the individual Floor-Ceiling Design.
 - D. **Gypsum Board*** - Nom 4 ft (1.2 m) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Max diam of ceiling opening is 2 in. (51 mm).
2. **Chase Wall - (Optional)** - The through penetrant (Item 3) may 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) 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) 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) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is 2 in. (51 mm).
 - D. **Gypsum Board*** - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.



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Created or Revised: January 2, 2009

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3. **Through Penetrants** - One nonmetallic pipe or conduit to be installed within the firestop system. Pipe or conduit shall be spaced a nom 1/4 in. (6 mm) from the cable (Item No. 4). The space between pipe or conduit and the periphery of the opening shall be a nom 1/4 in. (6 mm). Pipe or conduit to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - A. **Polyvinyl Chloride (PVC) Pipe** - Nom 3/4 in. (19 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) piping system.
 - B. **Rigid Nonmetallic Conduit+** - Nom 3/4 in. (19 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
 - C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 3/4 in. (19 mm) diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) piping systems.
 - D. **Electrical Nonmetallic Tubing (ENMT)+** - Nom 3/4 in. (19 mm) diam (or smaller) ENMT formed from PVC and installed in accordance with the National Electrical Code.
4. **Cables** - One cable to be spaced a nom 1/4 in. (6 mm) from the other through-penetrants. The space between the cable and periphery of opening shall be a nom 1/4 in. (6 mm). Cables to be rigidly supported on both sides of floor-ceiling assembly.

The following types and sizes of copper conductor cables may be used:

- A. Max 100 pair No. 24 AWG (or smaller) telephone cables with polyvinyl chloride (PVC) insulation and jacket.
 - B. Max 3/C (with ground) - No. 10 AWG (or smaller) nonmetallic sheathed ("Romex") cable with PVC insulation and jacket.
5. **Fill, Void or Cavity Material* - Sealant** - Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with top surface of floor or sole plate. Min 5/8 in. (16 mm) thickness of fill material also applied within the annulus of the ceiling or top plate, flush with bottom surface of ceiling or lower top plate. Min 3/8 in. (10 mm) diam bead of fill material applied at point contact location on top surface of floor or sole plate and on bottom surface of gypsum board ceiling or lower top plate.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

*Bearing the UL Classification Mark



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