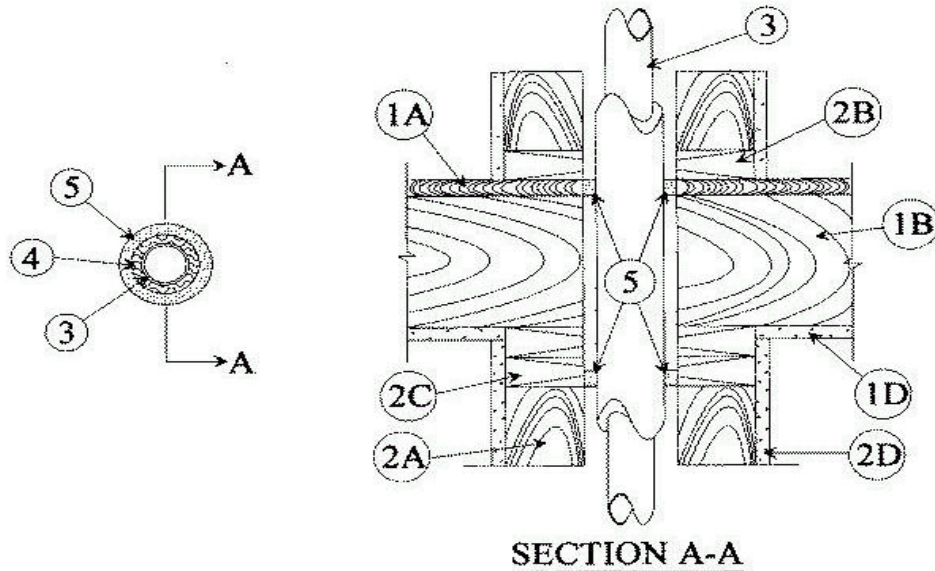


UL System No. F-C-5024

F Rating — 1 Hr

T Rating — 1 Hr



1. Floor-Ceiling Assembly The 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. The general construction details of the floor-ceiling assembly are summarized below:

- A. **Flooring System** Lumber or plywood sub-floor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max dia. of floor opening is 3-7/8 in.
- B. **Joists** Nom 10 in. deep (or deeper) lumber and steel joist, trusses or **Structural Wood Members*** with bridging as required and 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, spaced 24 in. OC as required in the individual Floor-Ceiling Design.
- D. **Gypsum Board*** Nom 4 ft wide by 1/2 or 5/8 in. 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 dia. of ceiling opening is 3-7/8 in.

F-C-5024 continued...

2. **Chase Wall** The fire-rated single or double wood stud/gypsum wallboard chase wall shall be 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. or double nom 2 by 4 in. lumber studs.

B. **Sole Plate** Nom 2 by 6 in. 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. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max dia. of opening is 3-7/8 in.

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 or tubing to be installed approximately midway between wood joists and centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe** Nom 2 in. dia. (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Copper Tubing** Nom 2 in. dia. (or smaller) Type L (or heavier) copper tubing.

C. **Copper Pipe** Nom 2 in. dia. (or smaller) Regular (or heavier) copper pipe.

4. **Pipe Covering*** Nom 1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket.

Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. A nom annular space of 1/4 in. is required within the firestop system.

See **Pipe and Equipment Covering-Materials-** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

5. **Fill, Void or Cavity Material* — Sealant** Min 1-1/8 in. thickness of fill material applied within the annulus, flush with top surface of floor. A generous bead of fill material also applied within the annulus of the top plate, flush with bottom surface of lower top plate.

A/D FIRE PROTECTION SYSTEMS INC — A/D FIREBARRIER Silicone

*Bearing the UL Classification Marking