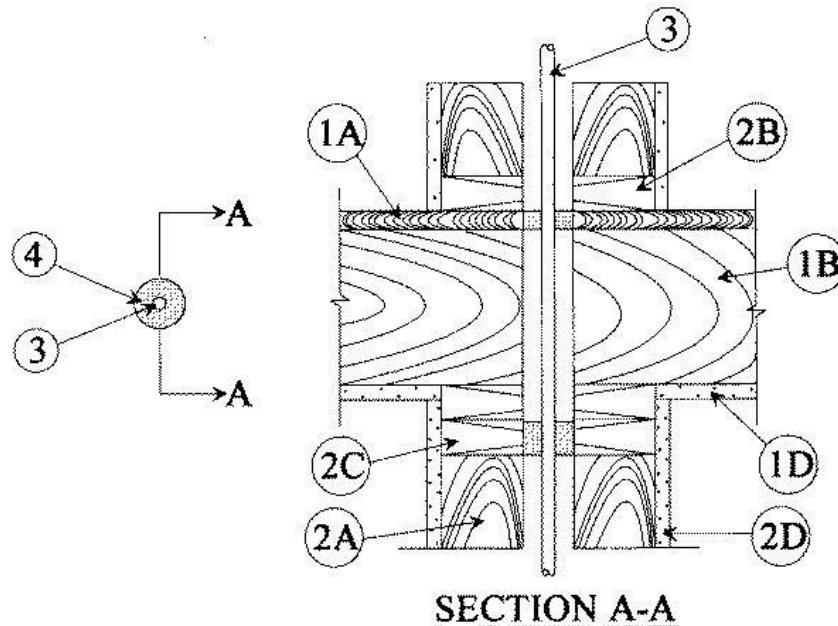


UL System No. F-C-3027

F Rating — 1 Hr

T Rating — 1 Hr



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 the 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.

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 max 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. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Max diam of ceiling opening is 2 in.

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. or double nom 2 by 4 in. lumber studs.

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B. **Sole Plate** - Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 2 in.

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 diam of opening is 2 in.

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

3. **Cables** - One cable to be centered within the firestop system. Diam of openings hole-sawed through flooring system and through sole and top plates of chase wall assembly to be nom 1/4 in. larger than the outside diam of cable. Cable 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) cable with polyvinyl chloride (PVC) insulation and jacket materials.

B. Max 1/C 500 kcmil (or smaller) cable with cross linked polyethylene insulation and jacket materials.

C. Max 3/C (with ground) No. 12 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.

D. Max RG/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacket materials.

E. Max 2/C No. 12 AWG (or smaller) cable with PVC insulation and jacket materials.

F. Max 3/C — No. 4/0 AWG (or smaller) aluminum conductor service entrance cable with PVC insulation and jacket.

3A. **Through Penetrating Product*** - (Not Shown) — As an alternate to Item 2, max 4/C No. 2 AWG (or smaller) aluminum or steel **Armored Cable+** or 2/0 **Metal-Clad Cable+** with copper conductors. Max one armored cable or metal-clad cable centered within the firestop system. One cable to be installed approximately midway between wood joist and centered within firestop system. Diam of openings hole-sawed through flooring system and through gypsum lboard ceiling to be nom 1/4 in. larger than the outside diam of cable. Through-penetrating product to be rigidly supported on both sides of a floor-ceiling assembly.

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4. **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. At bottom of assembly, min 5/8 in. thickness of fill material applied within annulus, flush with bottom surface of lower top plate.

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

*Bearing the UL Classification Mark

+Bearing the UL Listing Mark