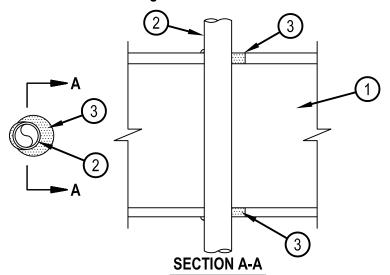


System No. F-C-2429

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. The general construction features of the floor-ceiling assembly are 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 2-1/2 in. (64 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 4 ft (1.2 m) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design.. Max diam of opening is 2-1/2 in. (64 mm).
- 1.1. Chase Wall (Not Shown, Optional) The through penetrants (Item 2) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum board chase wall having a fire rating consistent with that of the floor-ceiling assembly. The 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 4 in. (51 by 102 mm) or 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 4 in. (51 by 102 mm) lumber or parallel 2 by 4 in. (51 by 102 mm) or nom 2 by 6 in. (51 by 152 mm) lumber plates, tightly butted. Max diam of opening is 2-1/2 in. (64 mm).
 - C. Top Plate The double top plate shall consist of two nom 2 by 4 (51 by 102 mm) or nom 2 by 6 in. (51 by 152 mm) lumber plates or double parallel nom 2 by 4 in. (51 by 102 mm) lumber plates tightly butted. Max diam of opening is 2-1/2 in. (64 mm).
 - D. Gypsum Board* Thickness, type, number or layers and fasteners shall be as specified in individual Wall and Partition Designs.
- 2. Through Penetrants One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. The annular space between the pipe and the periphery of the opening shall be a minimum of 0 in. (point contact) to a max of 15/16 in. (24 mm). Pipe to be rigidly supported on both sides of the floor or wall assembly. The following type and sizes of nonmetallic pipe may be used:
 - A. Polypropylene (PP) Pipe Nom 1-1/2 in. (40 mm OD) diam (or smaller) Aquatherm Fusiotherm SDR 11 PP pipe for use in closed (process or supply) piping systems.
 - B. Polypropylene (PP) Pipe Nom 1-1/2 in. (40 mm OD) diam (or smaller) Orion PolystarTM CT-White SDR 11 pipe for use in closed (process or supply) piping systems.
 - 3. Fill, Void or Cavity Material* Sealant Min 3/4 in. (19 mm) thickness of fill material applied within annulus flush with top surface of floor or sole plate. Min 5/8 in. (16 mm) thickness of fill material applied within annulus flush with bottom surface of ceiling or bottom surface of lower top plate. A min 1/4 in. (6 mm) bead of fill material is applied to area of point contact on both sides of floor ceiling assembly.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

