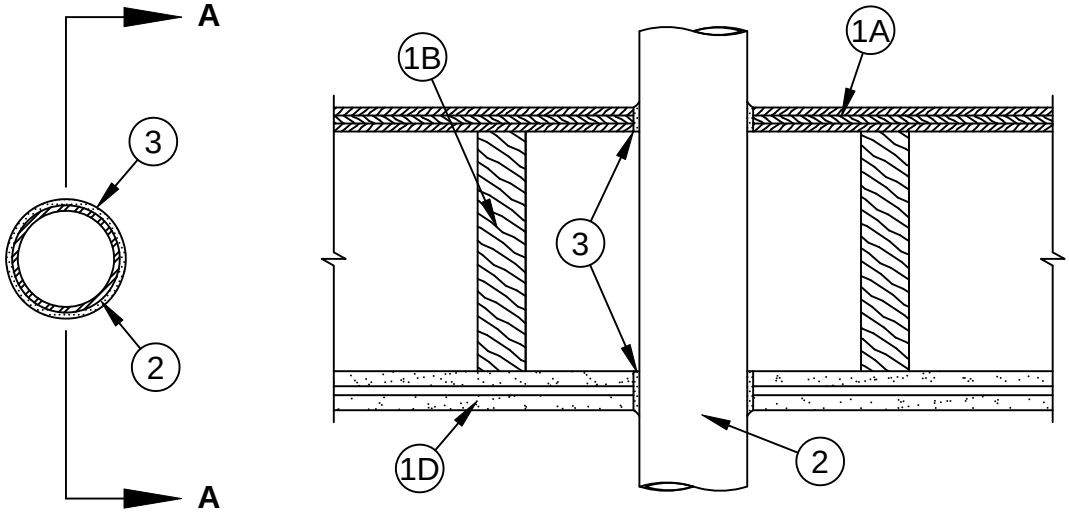
System No. F-C-1010

F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1/2, 3/4, 1 and 1-1/2 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

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 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design Nos. L505, L511 or L536 in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the hourly fire rating of the floor-ceiling assembly. 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 5 in.

   B. **Wood Joists* -** For 1 hr fire-rated floor-ceiling assemblies, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped. For 2 hr fire-rated floor-ceiling assemblies, nom 2 by 10 in. lumber joists spaced 16 in. OC with nom 1 by 3 in. lumber bridging and with ends firestopped.

   C. **Furring Channels -** (Not Shown) - In 2 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between first and second layers of gypsum board (Item 1D). Furring channels spaced max 24 in. OC. In 1 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between gypsum board and wood joists as specified in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. OC.

   D. **Gypsum Board* -** Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. First layer of gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Second layer of gypsum board (2 hr fire-rated assembly) screw-attached to furring channels as specified in the individual Floor-Ceiling Design. Max diam of ceiling opening is 5 in.

2. **Through Penetrants -** One metallic pipe, conduit or tube installed approximately midway between wood joists. Diam of openings hole-sawed through flooring system and through gypsum board ceiling to be nom 1/2 in. greater than the outside diam of through-penetrant. For 1 hr rated floor assemblies, through penetrant to be installed either concentrically or eccentrically within the opening with an annular space of 0 in. (point contact) to 1/2 in. For 2 hr rated floor assemblies, through penetrant to be centered in the opening. Pipe, conduit or tube to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Steel Pipe -** Nom 4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.

   B. **Iron Pipe -** Nom 4 in. diam (or smaller) cast or ductile iron pipe.

   C. **Conduit -** Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

   D. **Copper Pipe -** Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

   E. **Copper Tubing -** Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.

   The T Rating of the firestop system is dependent upon the hourly rating of the floor-ceiling assembly and type of through-penetrant used as shown in the table below:

Floor Ceiling Rating Hr	Type of Penetrant	T Rating Hr
1	Steel or Iron Pipe	1
1	Steel Conduit	1
1	Copper Tube or Pipe	3/4
2	Steel or Iron Pipe	1-1/2
2	Steel Conduit	1-1/2
2	Copper Tube or Pipe	1/2

3. **Fill, Void or Cavity Material* - Sealant -** Fill material forced into annulus to fill space to max extent possible on top surface of floor and bottom surface of ceiling. Min 3/8 in. diam bead of fill material applied at point contact location on top surface of floor and on bottom surface of gypsum board ceiling.

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

   *Bearing the UL Classification Mark