



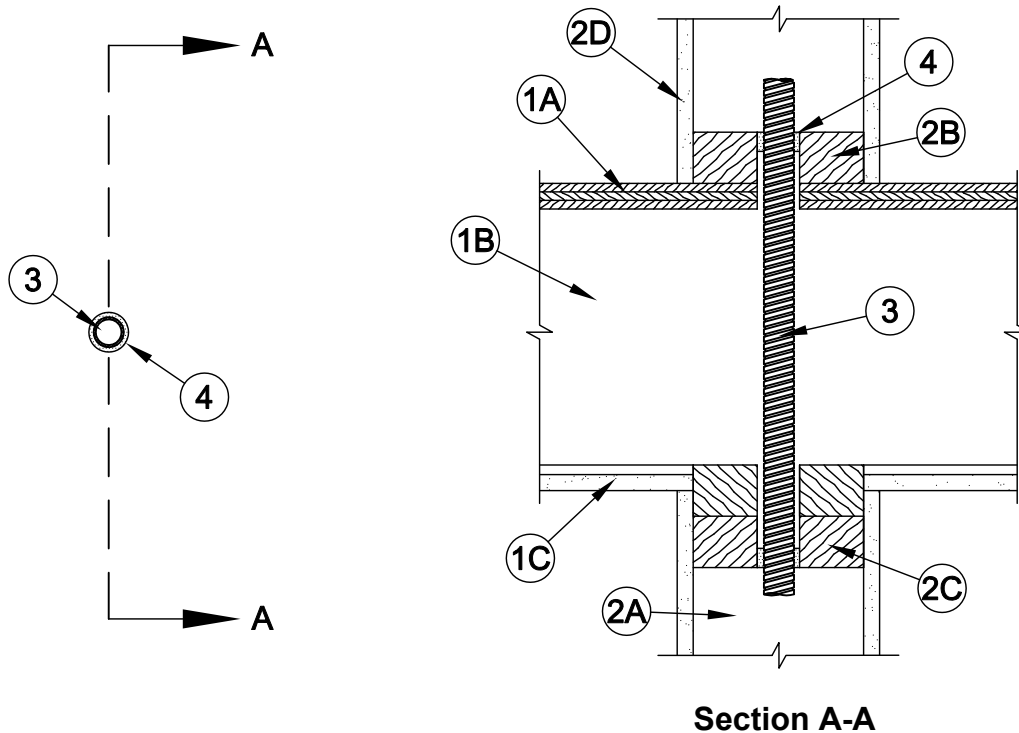
## System No. F-C-3042

F Rating - 1 Hr

T Ratings - 3/4 and 1 Hr (See Items 3 and 3A)

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 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. (51 mm).
  - B. **Joists** - Nom 10 in. (254 mm) deep (or deeper) lumber and steel joist, 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. Wallboard direct-attached to joists or screw-attached to furring channels as specified in the individual Floor-Ceiling Design.
2. **Chase Wall** - (Optional) - The through penetrants (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.



**Specified Technologies Inc. 200 Evans Way Somerville, NJ 08876**

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3. **Through Penetrating Product\*** - Max 4/C No. 5 AWG (or smaller) aluminum or steel **Metal-Clad Cable+** with copper conductors. Max one metal-clad cable to be installed either concentrically or eccentricity within the firestop system. Cable to be installed approximately midway between wood joists. Diam of openings hole-sawed through flooring system and through ceiling or sole and top plates of chase wall assembly to be nom 3/8 in. (10 mm) larger than the outside diam of cable. Through-penetrating product to be rigidly supported on both sides of a floor-ceiling assembly. The hourly T Rating is 3/4 hr when Item 3 is used.

**NORTHERN CABLES INC**

- 3A. **Cables** - (Not Shown) - As an alternate to Item 3, one or more cables to be installed either concentrically or eccentricity within the firestop system. Cables to be installed approximately midway between wood joists. Diam of openings hole-sawed through flooring system and through ceiling or sole and top plates of chase wall assembly to be nom 3/8 in. (10 mm) larger than the outside diam of cable or cable bundle. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of cables may be used:

- A. Max 100 pair No. 24 AWG (or smaller) copper conductor telephone cables with polyvinyl chloride (PVC) insulation and jacket materials.
- B. Max 3/C (with ground) No. 5 AWG aluminum conductor service entrance cable with PVC insulation and jacket materials.
- C. Max 3/C (with ground) No. 12 AWG (or smaller) copper conductor nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.

The number of cables allowed within the opening is dependent upon the type and size of cable as tabulated in Item 3.

The number of through penetrants permitted within the firestop system and the hourly T Rating is dependent upon the type and size of through penetrant as tabulated below:

Type of Thought Penetrant	Max No. of Penetrants	T Rating (Hr)
Telephone Cable	1	1
Service Entrance Cable	1	1
Romex Cable	7	3/4
Metal Clad Cable	1	3/4

4. **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. At the bottom of assembly, a min 5/8 in. (16 mm) fill material applied within annulus, flush with the ceiling or lower top plate of chase wall assembly. On both top and bottom of assembly, fill material forced into interstices of cable bundle to max extent possible. Additional fill material to be installed such that a min 1/4 in. (6 mm) crown is formed around the cable or cable bundle on both sides of floor-ceiling assembly. When multiple cables are installed, the cables must be individually separated such that the sealant can be applied between the individual cables for the L Ratings to apply.

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

\*Bearing the UL Classification Mark



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