



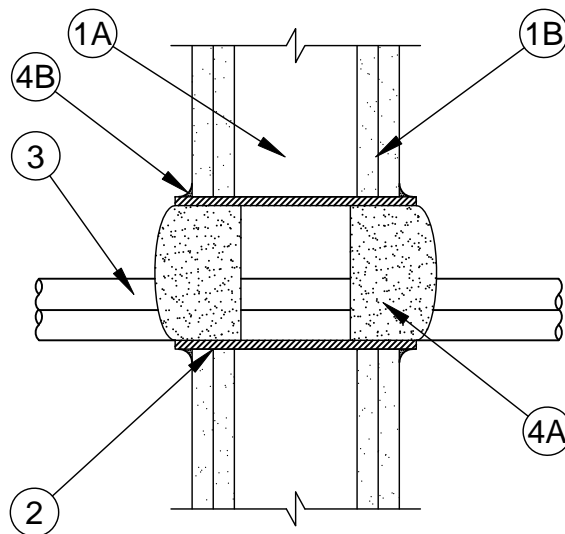
System No. W-L-3357

F Ratings - 1 and 2 Hr (See Item 1)

T Rating - 0 Hr

L Rating At Ambient - 10.5 CFM/sq ft

L Rating At 400 F - 10.5 CFM/sq ft



1. **Wall Assembly** - The 1 hr or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:
 - A. **Studs** - Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.
 - B. **Gypsum Board*** - The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition design.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Steel Sleeve** - Nom 2 in. (51 mm) or 4 in. (102 mm) diam Schedule 5 (or heavier) steel sleeve, rigid steel conduit or electrical metallic tubing. Sleeve friction fit into wall openings and extending min 1/2 in. (13 mm) to max 2-1/2 in. (64 mm) beyond wall surfaces.
3. **Cables** - Aggregate cross-sectional area of bundled cables in opening to be max 33 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening or sleeve to be min 0 in. (point contact). Cables to be rigidly supported on both sides of the floor or wall assembly. Any combination of the following types and sizes of cables may be used:
 - A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
 - B. Max 750 kcmil single copper connector power cable with thermoplastic insulation and PVC jacket.
 - C. Max 7/C No. 12 AWG multiconductor power and control cable with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
 - D. Multiple fiber optical communication cable jacketed with PVC and having a max outside diameter of 1/2 in. (13 mm).
 - E. Max 3/C No. 12 AWG with bare aluminum ground, PVC insulated steel Metal-Clad# cable.
 - F. Max 1 in. (25 mm) diam (or smaller) metal clad TEK cable with PVC jacket.
 - G. Max 2/0 aluminum SER cable.
 - H. Type RG 59/U coaxial cable with polyethylene (PE) insulation and PVC jacket.



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- I. Max 1/2 in. (13 mm) diam (or smaller) armored-clad fiber optic cables.
 - J. Max four pair No. 22 AWG (or smaller) Cat 5 or Cat 6 cable with PVC jacket and insulation.
4. **Firestop System** - The firestop system shall consist of the following:
- A. **Fill, Void or Cavity Materials* - Plug** - Nom 2 in. (51 mm) or 4 in. (102 mm) diam plug firmly installed within the sleeve or opening on each side of wall such that the outer circumference of the dome-shaped plugs are flush with the surface of the wall or the end of the sleeve. Plugs cut to fit around the cable bundle and installed tightly within the opening or sleeve.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series FP Firestop Plug

- B. **Fill, Void or Cavity Material* - Sealant or Putty** - A min 1/2 in. (13 mm) bead of sealant shall be applied at sleeve/wall interface on both sides of wall. As an option, install putty or sealant to max extent possible within grouped cable interstices.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant, Pensil 300 Sealant, SpecSeal SIL300 Silicone Firestop Sealant, or SpecSeal Putty

#Bearing the UL Listing Mark

*Bearing the UL Classification Mark



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