



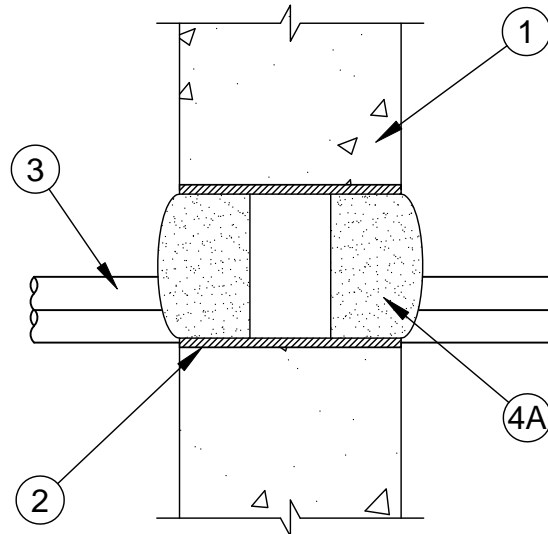
System No. W-J-3181

F Rating - 2 Hr

T Ratings - 0 and 1/4 Hr (See Item 2)

L Rating At Ambient - 10.5 CFM/sq ft

L Rating At 400 F - 10.5 CFM/sq ft



1. **Wall Assembly** - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for the names of manufacturers.

2. **Steel Sleeve** - Nom 2 in. (51 mm) or 4 in. (102 mm) diam sleeve cut from Schedule 5 (or heavier) steel pipe, rigid steel conduit or electrical metallic tubing. Sleeve to be cast or grouted into wall assembly flush with wall surfaces or may extend up to 12 in. (305 mm) beyond either or both wall surfaces.

When sleeve extends beyond wall surface, the T Rating is 0 hr.

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.
 - 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.



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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 plug is flush with the surface of the wall or the end of the sleeve. Plug 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** - (Not Shown) - 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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