

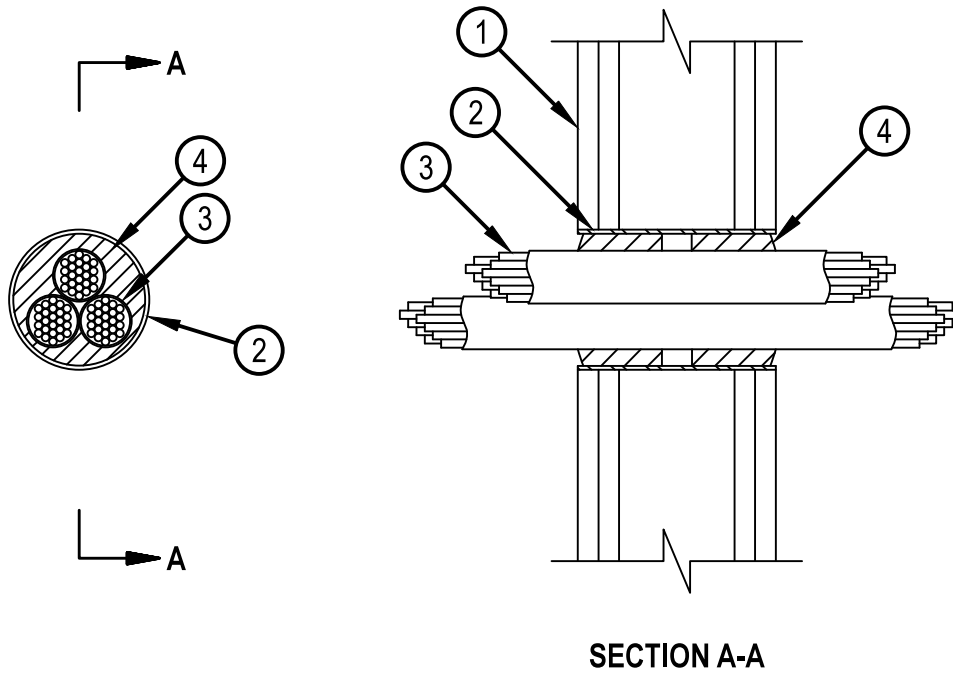


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CAN/ULC-S115

## System No. W-L-2568

WL 2568

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 and 1 Hr (See Item 2)	FT Ratings — 0 and 1 Hr (See Item 2)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 0 and 1 Hr (See Item 2)



System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — The 1 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, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 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 and spaced max 24 in. (610 mm) OC.
- B. Gypsum Board\* — One or two layers of gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 5-1/2 in. (140 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly rating of the wall assembly in which it is installed.

2. Steel Sleeve — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve or nom 4 in. (102 mm) diam (or smaller) rigid steel conduit or electrical metallic tubing. Sleeve to be flush with wall surfaces or may extend up to 12 in. (305 mm) beyond either or both wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (continuous point contact) to max 1 in. (25 mm).

When sleeve extends beyond wall surface the T, FT and FTH Ratings are 0 Hr.



**Hilti Firestop Systems**

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3. Cables — One max 3 in. (76 mm) diam flexible nylon Optical Fiber Raceway Assembly+ with a max of three 1-1/2 in. (38 mm) diam cells to have a max 80 percent cable fill for each cell. Aggregate cross-sectional area of bundled cables in opening to be max 60 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) to max 3 in. (76 mm). Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:

See Optical Fiber Raceway Assemblies (QAZQ) category in the Electrical Construction Directory for names of manufacturers.

- A. Max 100 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
- B. Max 24 fiber optical fiber communication cable jacketed with PVC.

4. Firestop System — The firestop system shall consist of the following:

- A. Fill, Void or Cavity Materials\* - Plug — Two nom 4 in. (102 mm) diam (or smaller) plugs firmly installed within the sleeve or opening such that the outer circumference of each dome-shaped plug is flush with both surfaces of the wall or both ends of sleeve. Plugs are cut to fit around the cable bundle and installed tightly within the opening or sleeve.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug or CFS-PL Firestop Plug

- B. Fill, Void or Cavity Material\* — Sealant or Putty — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus between sleeve and periphery of opening, flush with both sides of wall. At point contact, a min 1/2 in. (13 mm) bead of fill material shall be applied at sleeve/wall interface when sleeve extends beyond surface of wall. Additional sealant or putty may or may not be used to fill interstices between cables.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant or CP618 Firestop Putty Stick

+Bearing the UL Listing Mark for Plenum Installations

\*Bearing the UL Classification Mark



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