

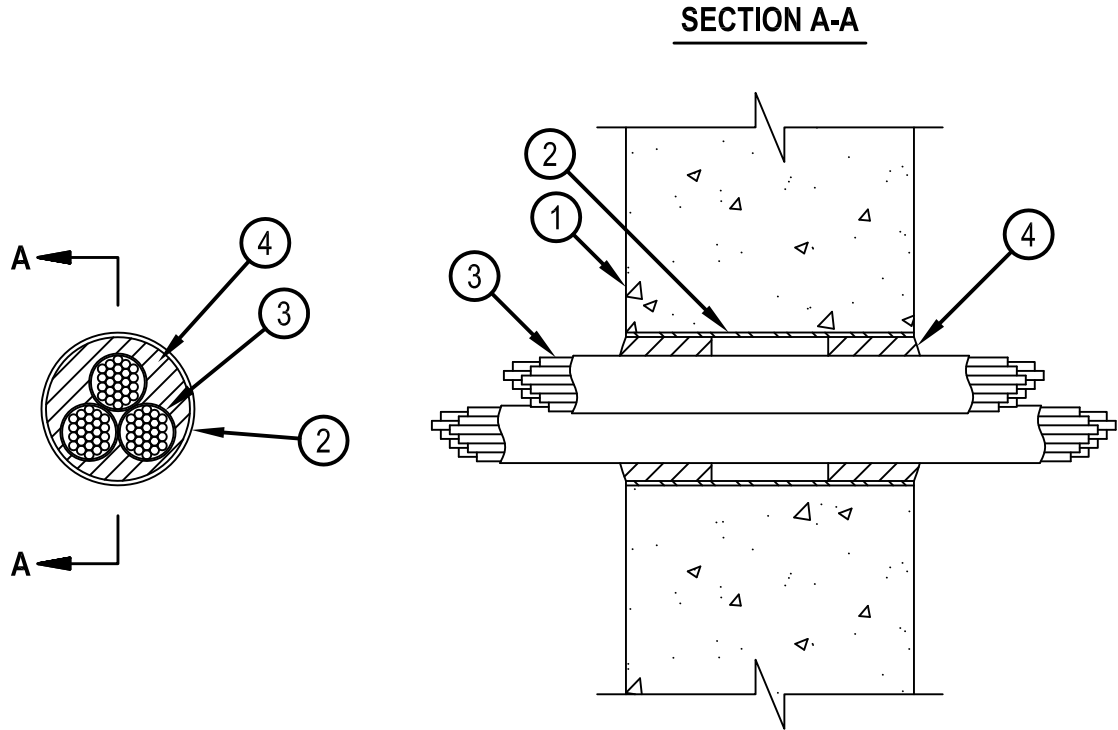


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CAN/ULC-S115

## System No. W-J-2242

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

WJ 2242



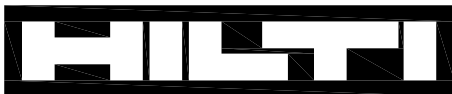
System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — Min 5 in. (127 mm) thick reinforced lightweight or normal weight 100-150 pcf (1600-2400 kg/m<sup>3</sup>) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 4 in. (102 mm). When optional steel sleeve (Item 2) is used max diam of opening is 5 1/2 in. (140 mm).

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

2. Steel Sleeve — (Optional) - 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.

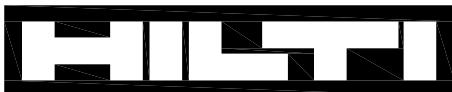
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug or CFS-PL Firestop Plug

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, 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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