

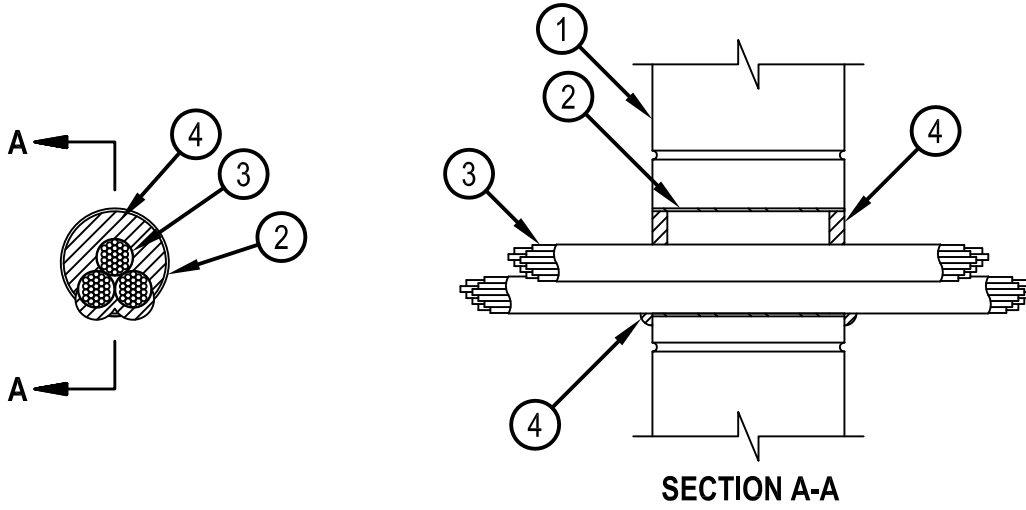


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-J-2241

WJ 2241

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)



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 6 in. (152 mm) thick reinforced lightweight or normal weight 100-150 pcf (1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening 5-1/2 in. (140 mm) when sleeve (Item 2) is used. When sleeve is not used, max diam of opening is 4 in. (102 mm).
See Concrete Blocks (CAZT) in Volume 1 of 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. The annular space between steel sleeve and periphery of opening shall be min 0 in. (continuous point contact) to max 1 in. (25 mm). Sleeve to be 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 shall be 0 Hr.
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. Fill, Void or Cavity Materials* — Putty — Min 5/8 in. (16 mm) thickness of putty installed within the sleeve or opening flush with both surfaces of the wall or both ends of sleeve. 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 location, 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 — CP 618 Firestop Putty Stick

*Bearing the UL Classification Mark

+Bearing the UL Listing Mark



Hilti Firestop Systems

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