

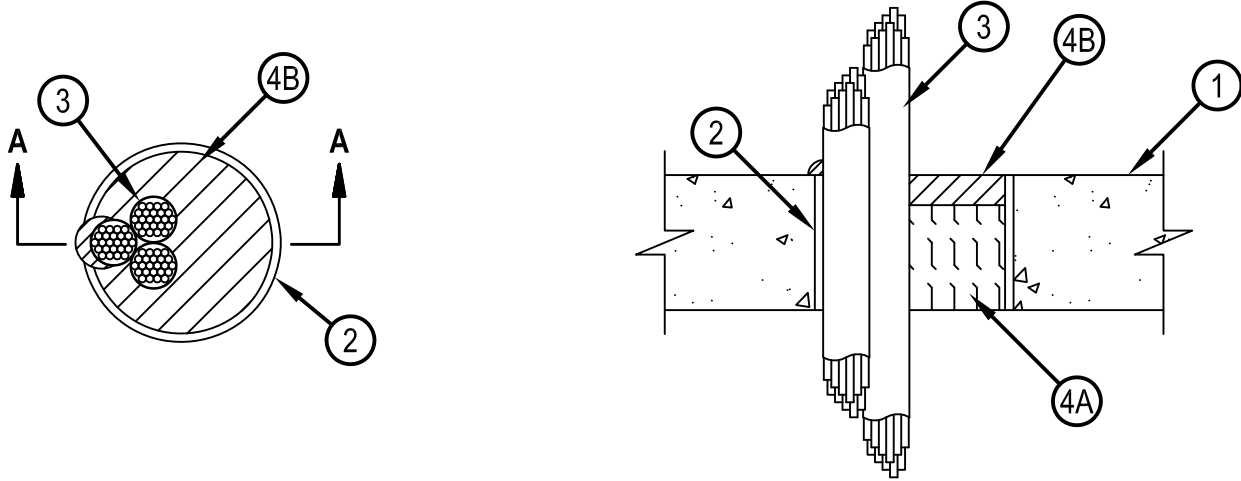


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-2659

CAJ 2659

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 3 Hr
	FTH Rating — 0 Hr



SECTION A-A

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.

- Floor or Wall Assembly — Min 4-1/2 in. (114 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*. Max diameter of opening is 6 in. (152 mm).
See Concrete Blocks (CAZT) in Volume 1 of the Fire Resistance Directory for names of manufacturers.
- Nonmetallic Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) solid or cellular core polyvinyl chloride (PVC) sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
- 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 floor or 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.
 - Max 100 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
 - Max 24 fiber optical fiber communication cable jacketed with PVC.
- Firestop System — The firestop system shall consist of the following:
 - Packing Material — Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both sides of wall as required to accommodate the required thickness of fill material.
 - Fill Void or Cavity Materials* — Putty — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with top surface of floor and both surfaces of wall. At point contact location between penetrant and sleeve or concrete, min 1/2 in. (13 mm) diam bead of fill material applied at bundle/sleeve or bundle/concrete interface on top surface of floor or both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP618 Firestop Putty Stick

*Bearing the UL Classification Mark

+Bearing the UL Listing Mark



Hilti Firestop Systems

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July 12, 2012