

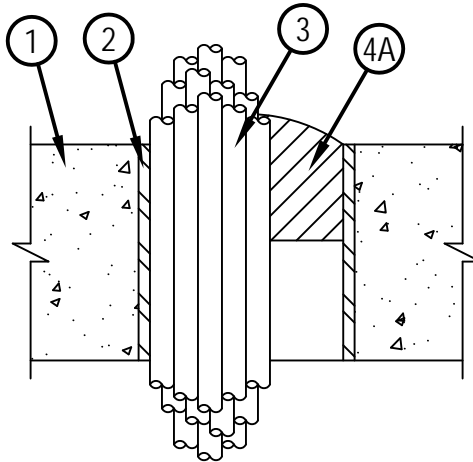


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-3216

CAJ 3216

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



1. 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 floor or concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Diameter of opening is nom 2 or 4 in. (51 or 102 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve — (Optional)-Nom 2 or 4 in.(51 or 102 mm) diam Schedule 5 (or heavier) steel sleeve or rigid steel conduit or electrical metallic tubing cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending max 2 in. (51 mm) above top surface of floor or both surfaces of wall.
When sleeve extends above top surface of floor or either surface of wall, the T, FT and FTH Ratings are 0 Hr.
- 2A. Nonmetallic Sleeve — (Optional)-Nom 2 or 4 in. (51 or 102 mm) diam Schedule 40 (or heavier) polyvinyl chloride (PVC) sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables — 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 tightly bundled together and 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. diam 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.
4. Firestop System — The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Materials* - Plug — Nom 2, 2.5 or 4 in. (51, 63 or 102 mm) plug sized for the sleeve/opening firmly installed within the sleeve or opening such that the outer circumference of the dome-shaped plug is flush with the top surface of the floor or sleeve or both surfaces of the wall or sleeve. Plug cut to fit around the cable bundle and installed tightly within the opening.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug 2.5 or 4 in. or CFS-PL Firestop Plug 2 or 4 in.
 - B. Fill, Void or Cavity Materials* - Putty — (Not shown, optional) - Putty may be forced into interstices of cables to max extent possible.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 618 Firestop Putty Stick

*Bearing the UL Classification Mark



Hilti Firestop Systems

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