

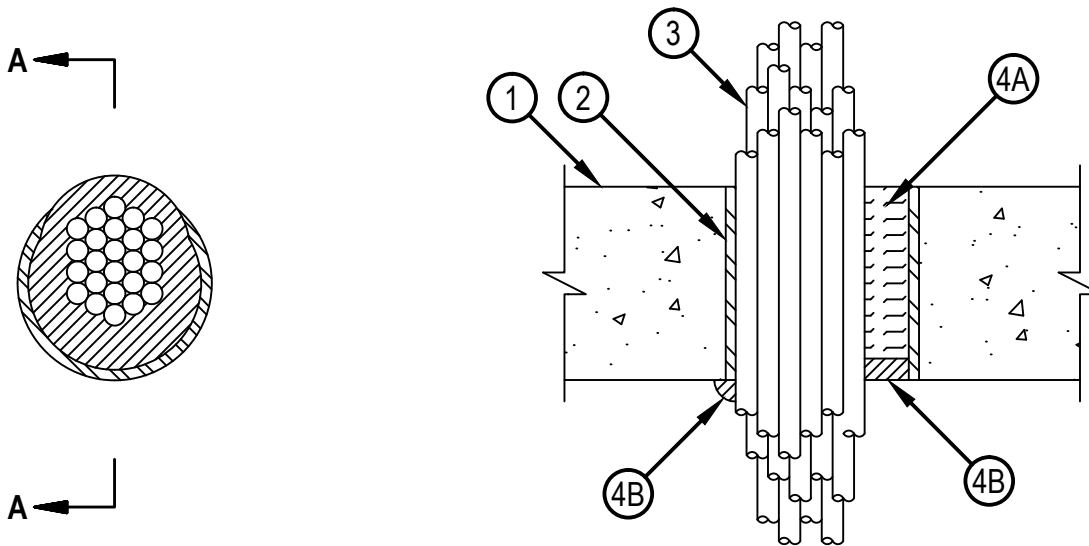


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-3210

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

CAJ 3210



SECTION A-A

1. Floor or Wall Assembly -- Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor or 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diameter of opening is 4 in.

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

2. Steel Sleeve -- (Optional) - Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel 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 1 in. Cables to be 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.
- 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.

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

- A. Packing Materials -- Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from bottom surface of floor or both sides of wall as required to accommodate the required thickness of fill material.
- B. Fill, Void or Cavity Materials* - Putty -- Min 1/2 in. thickness of fill material applied within the annulus, flush with bottom surface of floor and both surfaces of wall. At point contact location between penetrant and sleeve or concrete, min 1/2 in. diam bead of fill material applied at bundle/sleeve or bundle/concrete interface on bottom surface of floor or both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP618 Firestop Putty Stick

*Bearing the UL Classification Mark



Hilti Firestop Systems

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