

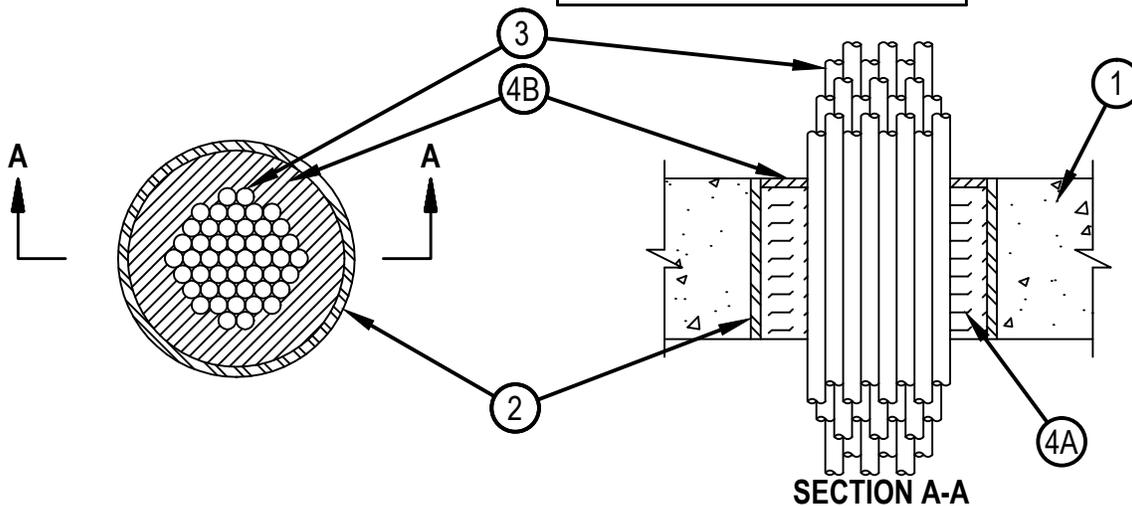


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-3193

CAJ 3193

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



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. Max diameter of opening is 6 in. (152 mm). Wall may also be constructed of any UL Classified Concrete Blocks*. Max diameter of opening is 6 in. (152 mm).

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

2. Steel Sleeve — (Optional) — Nom 6 in. diam (152 mm) (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with both surfaces of floor or wall.

3. Cables — Aggregate cross-sectional area of bundled cables in opening to be max 45 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 1 in. (25 mm). 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 500 kcmil single copper conductor 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. (25 mm) diam metal clad TEK cable with PVC jacket.
- G. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.
- H. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of 1/2 in.
- I. Fire Resistant Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.

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

- A. Packing Materials — Min 4 in. (102 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 surfaces of wall as required to accommodate the required thickness of fill material.
- B. Fill, Void or Cavity Materials* — Sealant — Min 1/4 in. (6.4 mm) thickness of fill material applied within the annulus, flush with top surface of floor or both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG, CFS-S SIL SL (floors only) or CP604 Self-Leveling Firestop Sealant

*Bearing the UL Classification Mark



Hilti Firestop Systems

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