

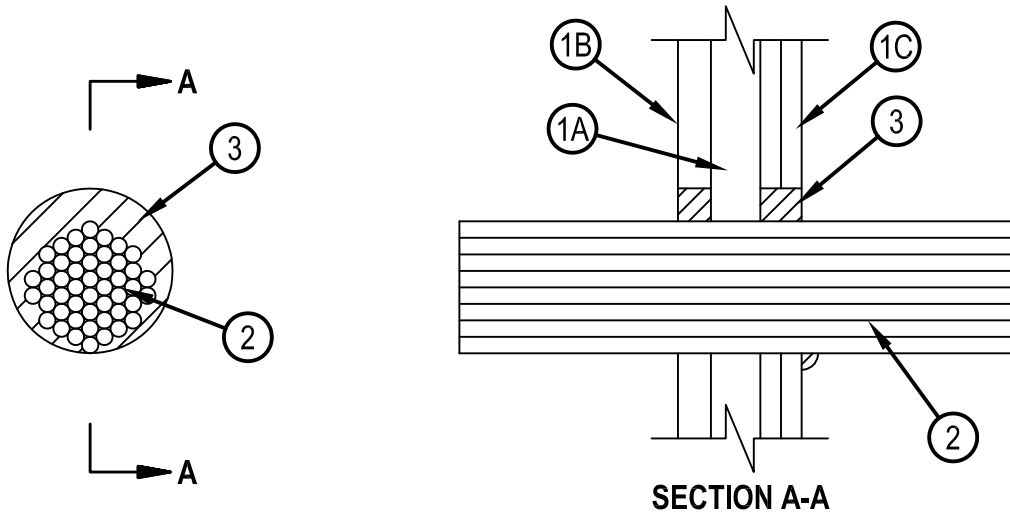


System No. W-L-3278

WL 3278

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 and 1/4 Hr (See Item 2)	FT Rating — 0 and 1/4 Hr (See Item 2)
	FH Rating — 2 Hr
	FTH Rating — 0 and 1/4 Hr (See Item 2)

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



1. Wall Assembly — The 2 hr fire-rated gypsum board/stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

- A. Steel Studs — "C-H", "C-T" or "I" shaped studs, min 2-1/2 in. (64 mm) wide by 1-1/2 in. (32 mm) deep, fabricated from min No. 25 gauge galv steel, spaced max 24 in. (610 mm). OC.
- B. Gypsum Board* — 1 in. (25 mm) thick, 24 in. (610 mm) wide gypsum liner panels installed vertically. Diameter of circular cutout in gypsum liner panel to be 1 in. (25 mm) greater than diam of cable bundle. Max diam of opening is 5 in. (127 mm).
- C. Gypsum Board* — 1/2 in. or 5/8 in. (13 or 16 mm) thick, 48 in. (1.2 m) wide gypsum boards. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).

2. Cables — One max 4 in. (102 mm) diam tight bundle of cables to be installed within the opening. The annular space within the firestop system shall be min 0 in. (0 mm, point contact) to max 1 in. (25 mm). Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of cables may be used:

- A. Max 100 pair No. 24 AWG (or smaller) telephone cable with polyvinyl chloride (PVC) insulation and jacket. When the 100 pair telephone cable, the T rating is 1/4 hr.
- B. Max 500 kcmil power cable with polyvinyl chloride (PVC) insulation and jacket. When the 500 kcmil power cable is used, the T rating is 1/4 hr.
- C. RG/U coaxial cable with fluorinate ethylene or polyvinyl chloride (PVC) jacket and insulation. When the coaxial cable is used, the T rating is 1/4 hr.
- D. Max 3/C No. 8 AWG steel clad cable with copper conductors and PVC insulation material. When the 3/C No. 8 AWG cable is used, the T rating is 1/4 hr.
- E. Fire Resistive 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. When the MI cable is used, the T Rating is 0 hr.

3. Fill Void or Cavity Materials* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location on finished surface of wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the cable bundle/wall interface.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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Hilti Firestop Systems