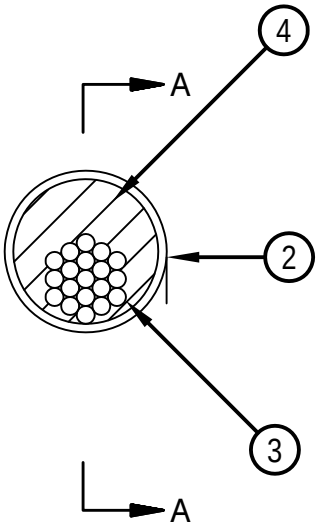
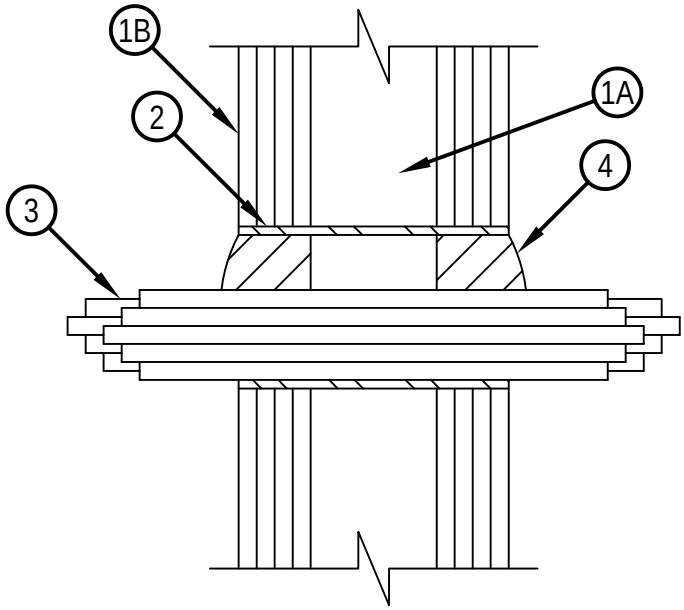
System No. W-L-3277

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

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 3 and 4 Hr (See Item 1)	F Ratings — 3 and 4 Hr (See Item 1)
T Ratings — 3/4 and 1 Hr (See Item 3)	FT Ratings — 3/4 and 1 Hr (See Item 3)
	FH Ratings — 3 and 4 Hr (See Item 1)
	FTH Ratings — 3/4 and 1 Hr (See Item 3)





SECTION A-A

1. Wall Assembly — The 3 or 4 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of steel channel studs. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 1/2 in. (13 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory. Diam of opening shall be nom 2 or 4 in. (51 or 102 mm).

   The hourly Fand FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Metallic Sleeve — Nom 2 or 4 in. (51 or 102 mm) diam Schedule 40 (or heavier) steel sleeve friction fitted into opening of wall assembly. Length of steel sleeve to be equal to thickness of wall.
3. Cables — Aggregate cross-sectional area of cables in opening to be max 33 percent of the aggregate cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening shall be min 0 in. (point contact) to max 1-5/8 in. (41 mm). Cables to be tightly bundled and rigidly supported on both surfaces of the wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Type RG/6 coaxial cable with fluorinated ethylene jacket. When the RG/6 coaxial cable is used, the T, FT and FTH Ratings are 3/4 hr.
   B. Max 150 pair No. 24 AWG telephone cable with PVC jacket. When the 300 pair cable is used, the T, FT and FTH Ratings are 1 hr.
   C. Max 3/C No. 12 AWG (or smaller) metal-clad cable. When the 3/C No. 12 AWG cable is used, the T, FT and FTH Ratings are 1 hr.
   D. Max 1/C - 750 kcmil power cable with PVC jacket. When the 1/C - No. 750 kcmil cable is used, the T, FT and FTH Ratings are 3/4 hr.
4. Fill, Void or Cavity Materials* - Plug — Nom 2, 2.5 or 4 in. (51, 63 or 102 mm) plug sized for the steel sleeve friction fitted within the sleeve such that the outer circumference of the dome-shaped plug is flush with each end of sleeve. Plug cut to fit around the cable bundle and installed tightly within the sleeve.

   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.

*Bearing the UL Classification Mark

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