

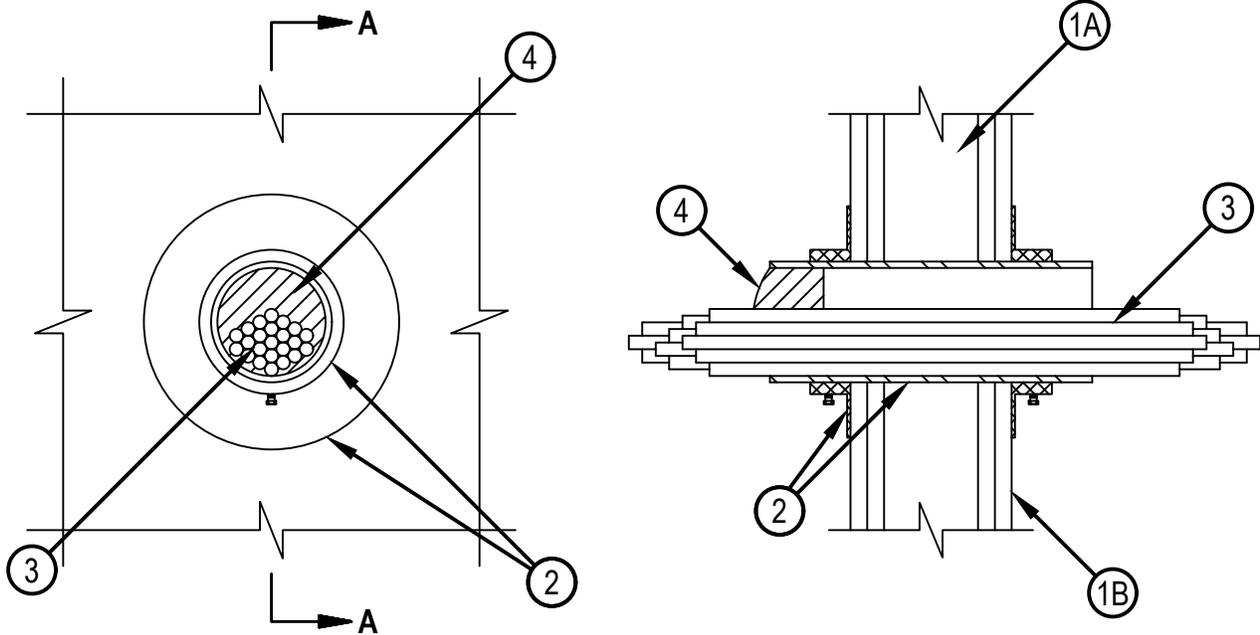


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-L-3282

WL 3282

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — 37 or 54 CFM/Sq Ft (See Item 2)	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400F — 18 or 47 CFM/Sq Ft (See Item 2)	FTH Rating — 0 Hr
	L Rating at Ambient — 37 or 54 CFM/Sq Ft (See Item 2)
	L Rating At 400F — 18 or 47 CFM/Sq Ft (See Item 2)



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 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 either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
- B. Gypsum Board* — 5/8 in. (16 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 U300, U400, V400 or W400 Series Designs in the UL Fire Resistance Directory.

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Firestop Device* — Sleeve — Smooth steel sleeve device incorporating flat washers secured by sliding compression couplers. Device shall be installed in accordance with the accompanying installation instructions. Device provided in nom 2 in. and 4 in. (51 and 102 mm) diam sizes. Max diam of opening in wall for nom 2 in. and 4 in. (51 and 102 mm) diam device is 2-7/16 in. and 4-1/2 in. (62 and 114 mm), respectively.

UNIQUE FIRE STOP PRODUCTS INC — Smooth Firestop



Hilti Firestop Systems

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2A. Firestop Device* — (Not Shown) — As an alternate to the smooth sleeve device in Item 2, threaded steel sleeve device incorporating flat washers secured by threaded couplers. Device shall be installed in accordance with the accompanying installation instructions. Device provided in nom 2 in. and 4 in. (51 and 102 mm) diam sizes. Max diam of opening in wall for nom 2 in. and 4 in. (51 and 102 mm) diam devices is 2-7/16 in. and 4-1/2 in. (62 and 114 mm), respectively.

UNIQUE FIRE STOP PRODUCTS INC — Threaded Firestop

2B. Firestop Device* — (Not Shown) — As an alternate to the smooth sleeve and threaded sleeve devices in Items 2 and 2A, threaded steel sleeve halves incorporating split nuts and split washers sized to fit the specific diam of the opening may be used. Device shall be installed in accordance with the accompanying installation instructions. Device provided in nom 2 in. and 4 in. (51 and 102 mm) diam sizes. Max diam of opening in wall for nom 2 in. and 4 in. (51 and 102 mm) diam device is 2-7/16 in. and 4-1/2 in. (62 and 114 mm), respectively.

UNIQUE FIRE STOP PRODUCTS INC — Split Sleeve

The L Rating of the firestop system is dependent upon the type of firestop device as tabulated below:

Firestop Device	L Rating, CFM/sq ft (CFM/firestop device)	
	Ambient	400F
Smooth Firestop	37 (3)	18 (2)
Threaded Firestop	37 (3)	18 (2)
Split Sleeve	54 (5)	47 (4)

3. Cables — Aggregate cross-sectional area of bundled cables in opening to be max 50 percent of the cross-sectional area of the firestop device. The annular space between the cable bundle and the periphery of the firestop device to be min 0 in. (point contact) to max 3 in. (76 mm). Cables to be rigidly supported on both sides of the 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. (25 mm) 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. Fill, Void or Cavity Materials* - Plug — Plug sized for the firestop device friction-fitted within the firestop device in Item 2 or 2A such that the outer circumference of the dome-shaped plug is flush with either end of the firestop device. Plugs sized for the firestop device friction-fitted within the firestop device of Item 2B such that the outer circumference of the dome-shaped plug is flush with both ends of the firestop device. Plug(s) cut to fit around the cable bundle and installed tightly within the firestop device.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug or CFS-PL Firestop Plug

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

