

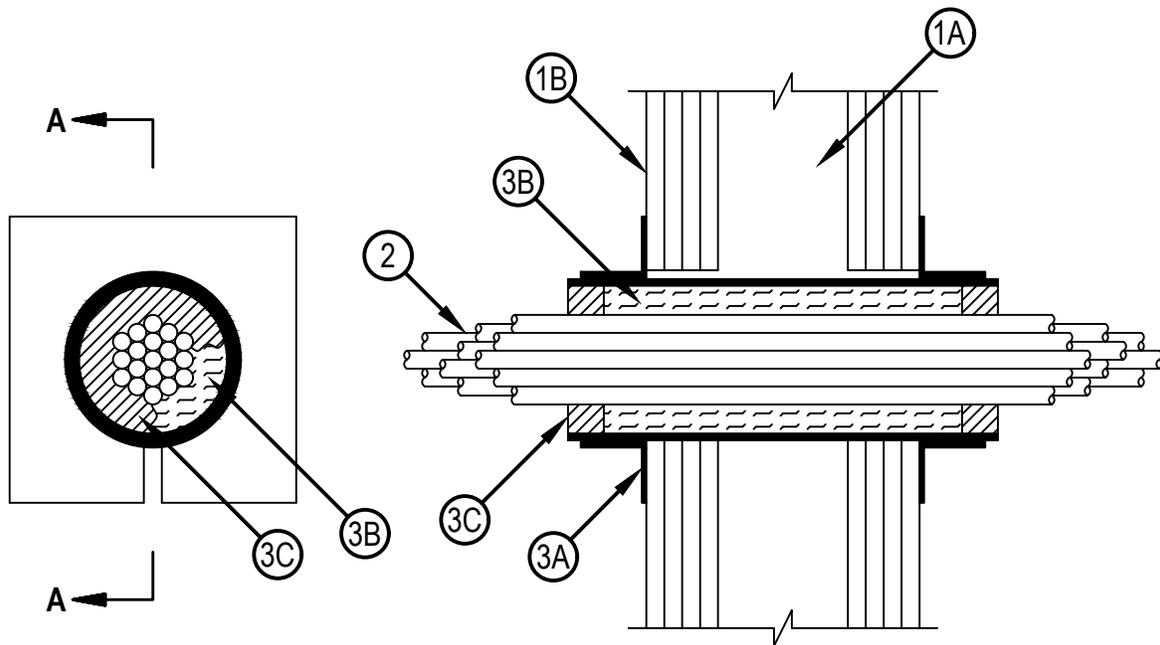


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-L-3273

WL 3273

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Ratings - 3 and 4 Hr (See Item 1)	F Ratings - 3 and 4 Hr (See Item 1)
T Rating - 3 Hr	FT Rating - 3 Hr
L Ratings At Ambient — 22 or 54 CFM / Sq Ft (See Item 3A)	FH Ratings - 3 and 4 Hr (See Item 1)
L Ratings At 400F — 18 or 47 CFM / Sq Ft (See Item 3A)	FTH Rating - 3 Hr
	L Ratings At Ambient — 22 or 54 CFM / Sq Ft (See Item 3A)
	L Ratings At 400F — 18 or 47 CFM / Sq Ft (See Item 3A)



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, 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 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, V400 or W400 Series Design in the UL Fire Resistance Directory. The diam of the opening is dependent upon the size of the firestop device as shown in Item 3A.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.



Hilti Firestop Systems

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2. Cables — Aggregate cross-sectional area of cables in sleeve to be min 8 to max 48 percent of the cross-sectional area of the sleeve. Cables to be tightly bundled and installed concentrically or eccentrically within the sleeve of the firestop device (Item 3A). The annular space between the cable bundle and the periphery of the sleeve shall be min 1/4 in. (6 mm) to max 1-1/4 in. (32 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 RG59/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.
 - B. Max 62.5/48 fiber optic cable with PVC insulation and jacket.
 - C. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC insulation and jacketing.
3. Firestop System — The firestop system shall consist of the following:
- A. Firestop Device* — Max 4 in. (102 mm) size threaded steel sleeve halves incorporating split nuts and split washers or flat washers sized to fit the specific diam of the opening may be used. Device shall be installed around cables in accordance with the accompanying installation instructions.

The diam of the opening is dependent upon the nom size of the firestop device as tabulated below:

Nom Size of Firestop Device, In (mm)	Diam of Opening, In (mm)
1 (25)	1-1/4 (32)
2 (51)	2-7/16 (62)
4 (102)	4-1/2 (114)

UNIQUE FIRE STOP PRODUCTS INC — Split Sleeve or Threaded Firestop

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	22 (2)	18 (2)
Threaded Firestop	22 (2)	18 (2)
Split Sleeve	54 (5)	47 (4)

- B. Packing Material — Min 4 pcf (64 kg/m³) mineral wool batt insulation packed into opening as a permanent form within the sleeve of the firestop device. Packing material recessed from each end of the device to accommodate the required thickness of fill material.
- C. Fill Void or Cavity Materials* - Putty — Min 1 in. (25 mm) thickness of fill material applied within annulus, flush with both ends of firestop device.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 618 Firestop Putty Stick

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

