

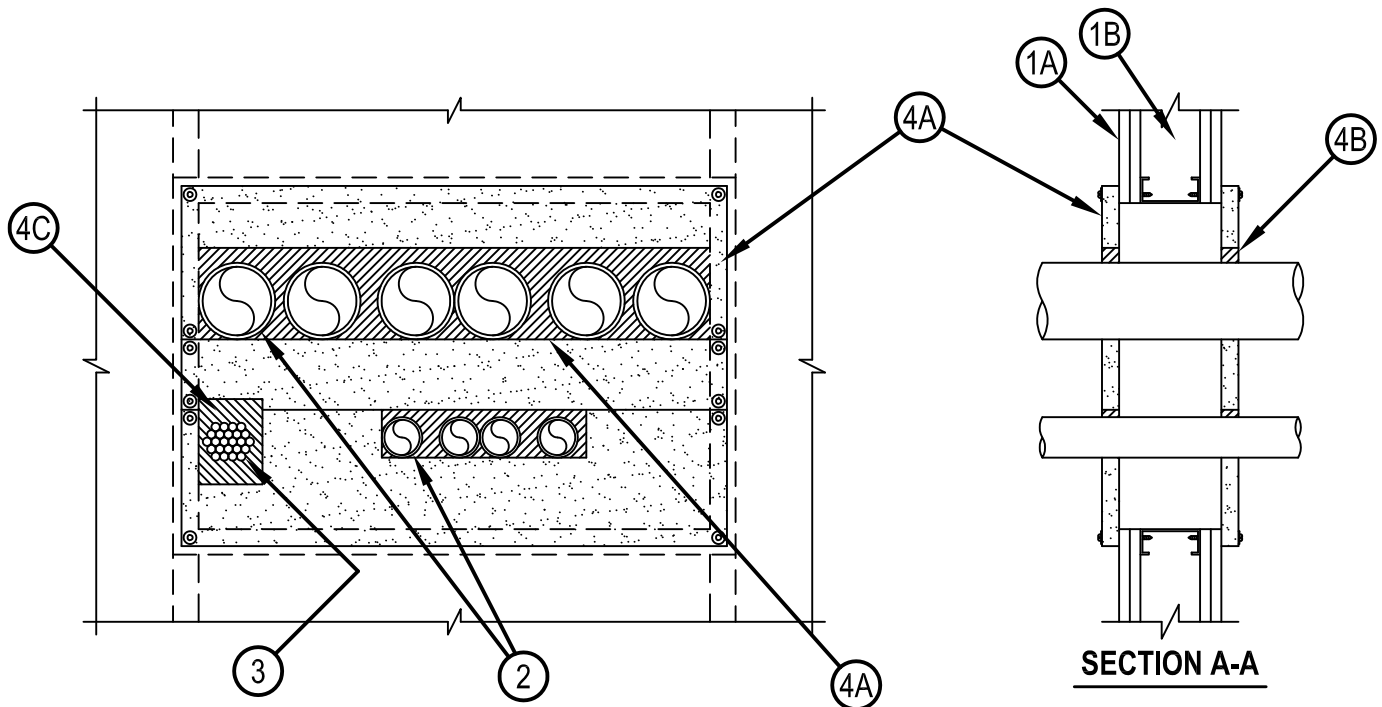


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CAN/ULC-S115

## System No. W-L-8059

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

WL 8059



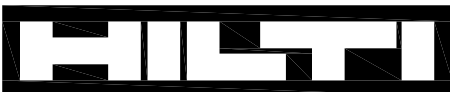
1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs — Wall framing may consist channel shaped steel studs. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be installed in stud cavity containing through penetrants to form a rectangular box around the penetrant.
- B. Gypsum Board\* — 5/8 in. (16 mm) thick, 4 ft (122 cm) 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 Wall and Partition Design. Max area of opening is 765 sq in. (4935 cm<sup>2</sup>) with max dimension of 40 in. (1016 mm) wide.

The hourly F, FH Ratings of the firestop system are equal to the hourly rating of the wall in which is installed.

2. Through Penetrants — Max of ten metallic through penetrants to be installed within the opening. Of the ten penetrants, a max of six through penetrants shall have a nom diam greater of greater than 2 in. (51 mm). The annular space between the through penetrants and the cut out of the board (Item 4A) shall be a min 0 in. (point contact) to a max 1 in. (25 mm). Annular space between through penetrants shall be a min 0 in. (point contact) to a max 1 in. (25 mm). Through penetrants to be rigidly supported on both sides of the wall. The following types of through penetrants may be used:

- A. Nom 4 in. (102 mm) diam (or smaller) rigid galv steel conduit.
- B. Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
- C. Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.



**Hilti Firestop Systems**

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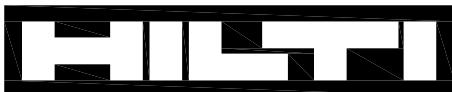
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3. Cables — Max of one 4 in. (102 mm) diam (or smaller) tightly bundled cables installed within the opening and rigidly supported on both surfaces of wall. Annular space between cut out of board (Item 4A) and cable bundle shall be 0 in. (point contact) to max 1 in. (25 mm). Any combination of the following types and sizes of cables may be used:
- A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
  - B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
  - C. Type R GU/59 polyethylene coaxial cable with polyethylene insulation and PVC jacket.
  - D. Through Penetrating Product\* — Max 3/C No. 8 AWG (or smaller) metal-clad cable or armored cable. Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category.  
See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
  - E. Max 3/C (with ground) No. 8 AWG (or smaller) copper conductor non-metallic sheathed (Romex) cable with PVC insulation and jacket.
  - F. Max 5/8 in. diam fiber-optic cable with PVC insulation and jacket.
4. Firestop System — The firestop system shall consist of the following:
- A. Firestop Device\* — Board — Min 1 in. (25 mm) thick board to be installed on each side of wall with min 1 in. (25 mm) overlap onto wall and tightly butted seams. Board to be attached to framing members around entire perimeter using 2-5/8 in. (67 mm) long self-drilling Type S steel screws with 1-1/4 in. (32 mm) OD steel fender washers at each corner and spaced maximum 8 in. (203 mm) OC in between.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP675T Firestop Board
  - B. Fill, Void or Cavity Material\* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within annulus between the metallic through penetrants (Item 2) and the periphery of the board. Fill material installed flush with both surfaces of wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
  - C. Fill, Void or Cavity Material\* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within annulus between the cable bundle (Item 3) and the periphery of the board. Fill material installed flush with both surfaces of wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 618 Firestop Putty Stick or 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.

+Bearing the UL Listing Mark



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