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

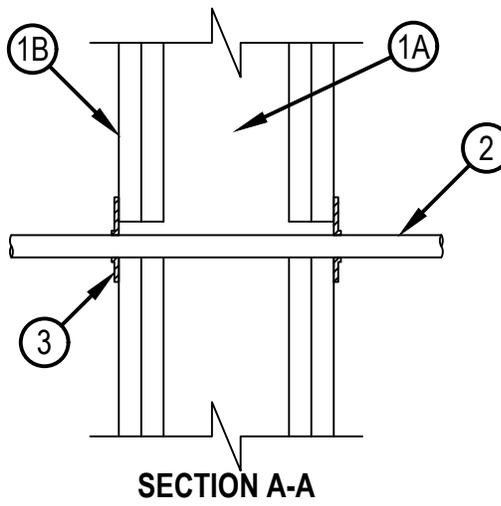
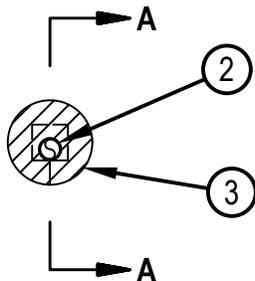
# System No. W-L-1506

ANSI/UL1479 (ASTM E814)

CAN/ULC S115

WL 1506

F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 0, 1 and 2 Hr (See Item 1 and 2)
T Ratings — 0, 1/2, 1 and 2 Hr (See Item 2)	FT Ratings — 0, 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Opening	FH Ratings — 0, 1 and 2 Hr (See Item 1 and 2)
L Rating at 400 F — Less than 1 CFM/Opening	FTH Ratings — 0, 1 and 2 Hr (See Item 2)
	L Rating at Ambient — Less than 5.1 L/s/m <sup>2</sup> /Opening
	L Rating at 400 F — Less than 5.1 L/s/m <sup>2</sup> /Opening



- 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 U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
  - Gypsum Board\* — 5/8 in. (16 mm) thick, 4 ft (1219 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Opening may be round, rectangular or irregular with a max diam or dimension of 1 in. (25 mm), or round with a max diam of 1-1/4 in. (31 mm).
- Through Penetrant — Max one metallic pipe, tubing or conduit installed either concentrically or eccentrically within the firestop system. For items 2C to 2G the annular space between penetrant and periphery of the opening shall be min 0 in. (point contact) to max 1/8 in. (3 mm). For items 2A and 2B the annular space between penetrant and periphery of the opening shall be min 0 in. (point contact) and when opening dimension exceeds 1 in. (25 mm), the max annular space is 3/8 in. (9.5 mm). Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, tubing or conduit may be used:
  - Copper Tubing — Nom 1/2 in. (13 mm) diam (or smaller) Type L and Type K (or heavier) copper tubing.
  - Copper Pipe — Nom 1/2 in. (13 mm) diam (or smaller) Regular (or heavier) copper pipe.
  - Steel Pipe — Nom 1 in. (25 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe for use in closed (process or supply) piping systems.
  - Iron Pipe — Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe for use in closed (process or supply) piping systems.
  - Conduit — Nom 1 in. (25 mm) diam (or smaller) rigid or flexible steel conduit for use in closed (process or supply) piping systems.
  - Conduit — Nom 1 in. (25 mm) diam (or smaller) electrical metallic tubing (EMT) for use in closed (process or supply) piping systems.
  - Nom 1 in. (25 mm) diam (or smaller) aluminum conduit, aluminum electrical metallic tubing (EMT) or aluminum pipe (Schedule 5 or heavier) for use in closed (process or supply) piping systems.

The hourly T, FT, FTH Ratings of the firestop system are equal to the fire rating of the wall assembly when item 2A or 2B is used. The hourly T Ratings of the firestop system are equal to 0 Hr for 1 Hr rated wall assemblies and 1/2 Hr for 2 Hr rated wall assemblies when items 2C to 2G are used. The hourly CAN F, FT, FH and FTH Ratings are equal to 0 Hr when items 2C to 2G are used.



Hilti Firestop Systems

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WL 1506

3. Fill, Void or Cavity Material\* — Nom 60 mm diam by 3 mm thick putty disc with one seam at radius. Paper-backer of disc to be removed and disc firmly pressed around the penetrant lapping nom 5 mm onto penetrant to completely cover opening and firmly pressed to lap onto the wall around periphery of opening. Disc seam to be firmly pressed and sealed tight, Disc to be installed at both surfaces of wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-D 1" Firestop Putty Disc

\* 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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