

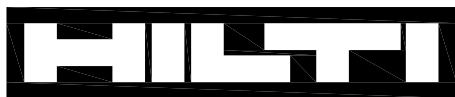
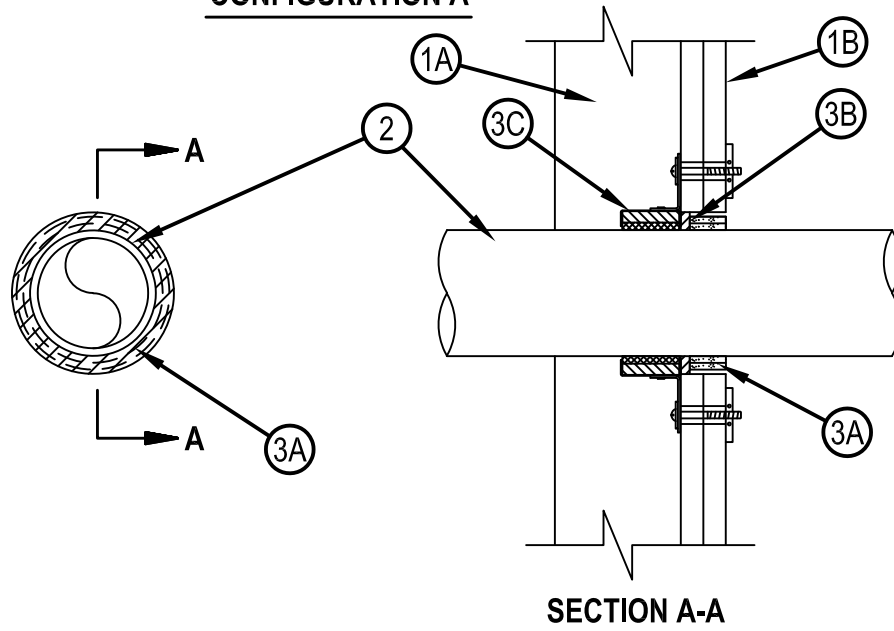
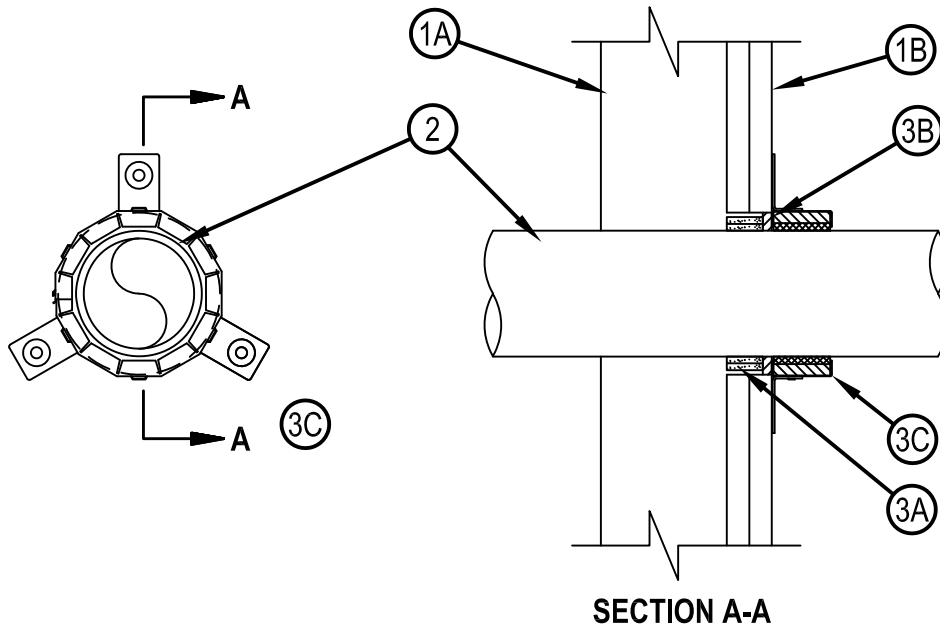


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-L-2694

WL 2694

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



Hilti Firestop Systems

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November 14, 2018

System No. W-L-2694

WL 2694

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — The 1-hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within V497 Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
 - A. Studs — Wall framing shall consist of steel channel studs fabricated from min 25 MSG corrosion-protected steel, min 3-5/8 in. wide, min 1-1/4 in. flanges, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
 - B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board as specified in the V497 Wall and Partition Design. Max diam of opening is 5-1/2 in. (76 mm).
2. Through Penetrants — One nonmetallic pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between penetrant and periphery of opening to be min 3/8 in. (10 mm) and max 5/8 in. (16 mm). Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic penetrants may be used:
 - A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC for use in closed (process or supply) piping systems.
 - C. Rigid Nonmetallic Conduit* — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

Configuration A

3. The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material* — Wrap Strip - Two layers of 3/16 in. (5 mm) thick by 1 in. (25 mm) wide intumescent wrap strip wrapped around the pipe with ends butted and held in place with tape. Butted ends in successive layers shall be offset. Wrap strip inserted into annular space and recessed from outer wall surface to accommodate sealant (Item 3B).
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-E W25/1" Firestop Wrap Strip
 - B. Fill, Void or Cavity Material* - Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with outer surface of gypsum board.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant
 - C. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to outer surface of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, three anchor hooks for 3 and 4 in. (76 and 102 mm) diam pipes. The anchor hooks are to be secured to the surface of wall with 3/16 in. (4.8 mm) diam by 2-1/2 in. (64 mm) long steel toggle bolts along with washers. As an alternate, min No. 10 by 1-1/2 in. (38 mm) long drywall or laminate screws with min 3/4 in. (19 mm) steel washers may be used.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N Firestop Collars

Configuration B

3. The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material* — Wrap Strip - Two layers of 3/16 in. (5 mm) thick by 1 in. (25 mm) wide intumescent wrap strip wrapped around the pipe with ends butted and held in place with tape. Butted layers in successive layers shall be offset. Wrap strip inserted into annular space and recessed from inner wall surface to accommodate sealant (Item 3B).
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-E W21/1" Firestop Wrap Strip
 - B. Fill, Void or Cavity Material* - Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with inner surface of gypsum board.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant
 - C. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to inner side of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, three anchor hooks for 3 and 4 in. (76 and 102 mm) diam pipes. The anchor hooks are to be secured to the surface of wall with 3/16 in. (4.8 mm) diam by 2-1/2 in. (64 mm) long steel toggle bolts along with washers. As an alternate, min No. 10 by 1-1/2 in. (38 mm) long drywall or laminate screws with min 3/4 in. (19 mm) steel washers may be used.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N Firestop Collars

* 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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