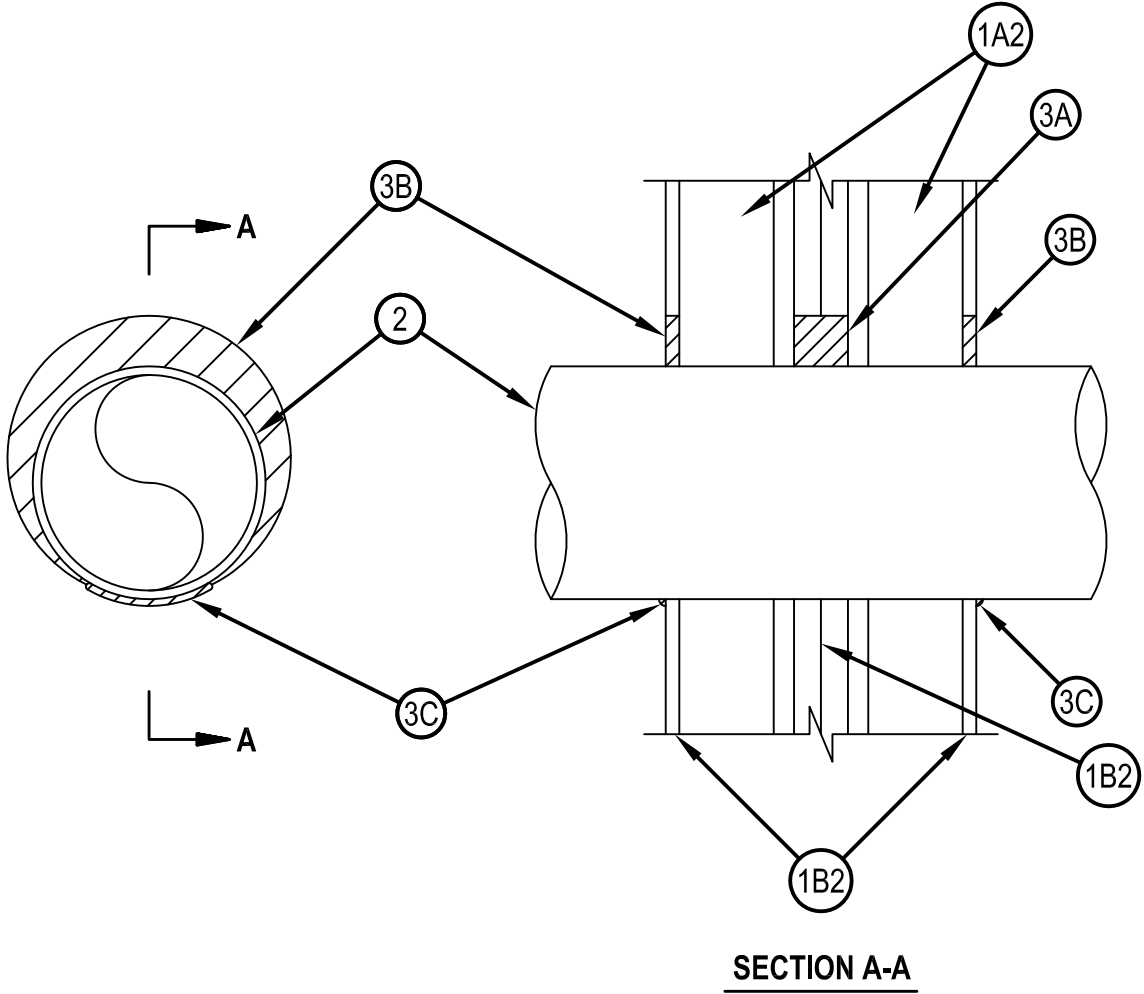


System No. W-L-1406



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

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Ratings — 2 Hr
L Rating At 400 F - 4 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - 4 CFM/sq ft



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to UL 1479 and CAN/ULC-S115

System No. W-L-1406

WL 1406

1. Wall Assembly — The 2 hr fire-rated gypsum board, steel and wood stud wall assembly shall be constructed as described in the U300 designs in the UL fire Resistance Directory and shall include the following features:
 - A. Studs —
 1. Framing shall consist of steel members formed from No. 25 MSG galv steel having "H" shaped flanged spaced 24 in. (610 mm) OC.
 2. Framing shall consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 24 in. (610 mm) OC. Studs cross braced at mid-height where necessary for clip attachment.
 - B. Gypsum Board —
 1. Gypsum board shall consist of two layers of 1 in. (25 mm) thick gypsum board liner panels, supplied in nom 24 in. (610 mm) widths.
 2. Gypsum board shall consist of Classified or Unclassified - Min 1/2 in. (13 mm) thick, 4 ft. (1219 mm) wide, applied either horizontally or vertically.

Max diameter of opening is 10-1/2 in. (267 mm).
2. Through Penetrant — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
 - A. Steel Pipe — Nom 8 in. (203 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
 - C. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - D. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - E. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
3. Firestop System — The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material* — Sealant — Min 2 in. (51 mm) depth of fill material applied within annulus on outer gypsum liner sides flush with outer layers of gypsum liner.
 - B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) depth of fill material applied within annulus flush with outer surfaces of gypsum board.
 - C. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) bead of fill material applied at interface of outer layers of gypsum board and penetrant (point contact).

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 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.



Hilti Firestop Systems

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