

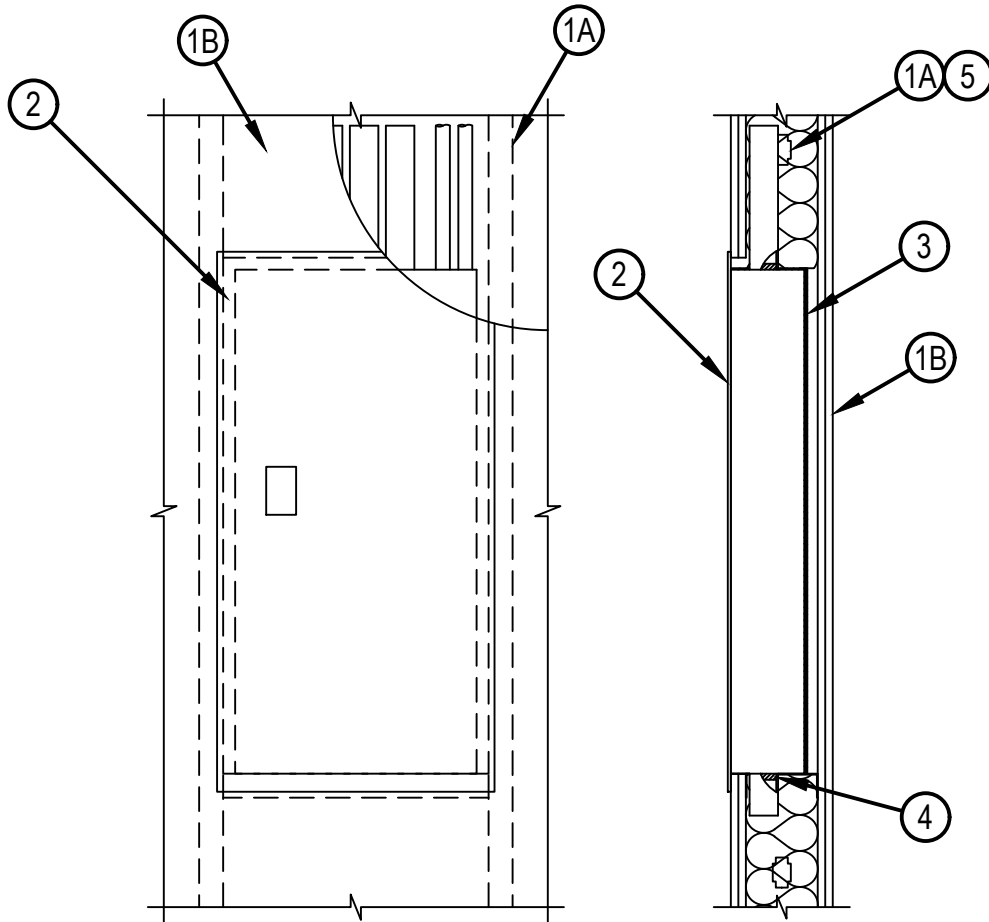


Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. W-L-7277

WL 7277

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



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1. Wall Assembly — The 1 or 2 hr fire rated framed gypsum board 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:
 - A. Studs — Wall framing shall consist of steel channel studs. Steel studs to be min 6 in. (152 mm) wide and spaced max 24 in. (610 mm) OC. Vertical wall framing member to be located within 3/4 in. (19 mm) to each side of steel box (Item 2). An additional framing member shall be used below the steel box to form a shelf within the wall cavity to support the steel box.
 - B. Gypsum Board* — The gypsum board type, thickness, number of layers and orientation shall be, as specified in the individual Wall and Partition Design. Size of cutout made to accommodate steel box (Item 2) is to be max 1 in. (25 mm) wider and 1/2 in. (13 mm) higher than the width and height of the steel box such that the annular space between box and cut edge of gypsum is max 1/2 in. (13 mm) at sides and top of opening and point contact at bottom of opening.
The hourly F, T, FT, FH and FTH Ratings are equal to the hourly rating of the wall assembly.
2. Steel Box — Min 18 gauge steel. Max 20-1/8 in. (511 mm) wide by max 42 in. (1067 mm) high by max 5-3/4 in. (146 mm) deep with integral steel hinged door. Box to be installed flush with one side of wall and provided with min 4 in. (102 mm) by 18 gauge steel mounting flange (trim) overlapping gypsum board around periphery of opening. Steel box secured to steel studs at two sides of opening with steel bolts after application of Fill, Void or Cavity material (Item 3) on exterior surfaces of steel box. A min of four toggle bolts, or four min 1/4 in. (6 mm) steel bolts with washer and machine nut, shall be used at each side of box, with two bolts located within 12 in. (305 mm) of top of box and two within 12 in. (305 mm) of bottom of box. Bottom of box to rest directly on steel shelf. Bottom and/or top of steel box may be penetrated by max five 2 in. (51 mm) diam steel conduit and four 1 in. (25 mm) diam flexible steel conduit, or by up to nine 1 in. (25 mm) diam flexible steel conduit. A conduit fitting shall be used at each connection of conduit to the box.
3. Fill, Void or Cavity Materials* - Putty Pads — One layer of min 0.2 in. (5 mm) thick moldable putty pads is to be installed to completely cover the exterior surfaces of the steel box (except for the bottom). For 2 hr F, T, FT and FTH Ratings, an additional layer (two total layers) of the putty pads shall be applied to the back of the box. A min 1/2 in. (13 mm) bead of the putty shall be applied around the periphery of each conduit fittings/connectors. At all mating edges, the putty pads shall be press applied to butt tightly so that the box is fully covered with the required number of layers of putty.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-P PA Firestop Putty Pads or CP 617(-L, -XL) Firestop Putty Pads
4. Fill, Void or Cavity Material*— Sealant or Putty — Min 1/2 in. (13 mm) depth of sealant or putty shall be applied within the open ends of the conduits which terminate within the box.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant or CP 618 Putty
5. Insulation* — The entire wall stud cavity with the steel box (Item 2) and the immediately adjacent stud cavity to each side shall be fully insulated with min R19 glass fiber batt insulation or mineral wool insulation. Additional pieces of insulation shall be installed as needed to completely fill the voids around the steel box and any penetrants (Item 3) to the full depth of the stud cavity. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance may be used.
See Batts and Blankets* (BZJZ) Category or Forming Materials* (XHKU) Category for names of Classified companies.

* 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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