

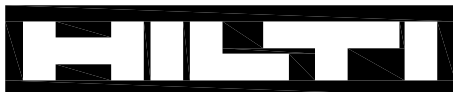
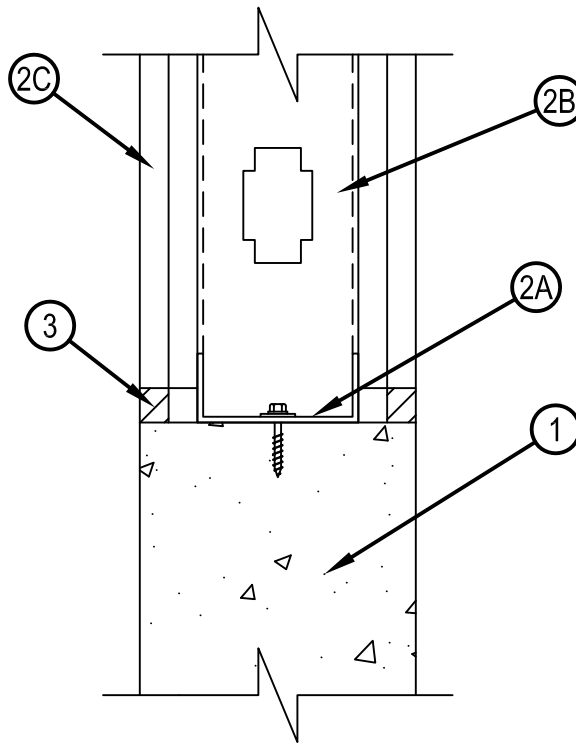


Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

System No. WW-S-0048

WW-S-0048

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Items 1 and 2)	F Ratings — 1 and 2 Hr (See Items 1 and 2)
Joint Width - 3/4 In. Max	FT Ratings — 1 and 2 Hr (See Items 1 and 2)
L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3)	FH Ratings — 1 and 2 Hr (See Items 1 and 2)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 3)	FTH Ratings — 1 and 2 Hr (See Items 1 and 2)
	Joint Width - 3/4 In. Max
	L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3)
	L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 3)



Hilti Firestop Systems

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December 07, 2011

1. Concrete Wall Assembly — Min 4-3/4 in. (121 mm) and 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-24—kg/m³) structural concrete for 1 and 2 hr rated assemblies, respectively. Additionally, thickness of the concrete wall shall be equal to or greater than thickness of gypsum wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Top course of concrete blocks shall be either solid or filled with concrete.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Gypsum Wall Assembly — The 1 or 2 h fire rated gypsum board/steel 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 Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor Runners — Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Runners to be provided with min 1-1/4 in. (32 mm) flanges. Runners secured to concrete wall assembly with steel concrete fasteners spaced max 24 in. (610 mm) OC.

B. Studs — Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to the floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.

C. Gypsum Board* — For 1 hr assembly, single layer of 5/8 in. (16 mm) thick gypsum board is required on each side of wall as specified in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board are required on each side of the wall as specified in the individual Wall and Partition Design. Wall to be constructed as specified in the individual U400, V400 or W400 Series Design except that a max 3/4 in. (19 mm) gap shall be maintained between the bottom of the gypsum board and the top of the concrete wall assembly.

The hourly fire rating of the joint system is equal to the hourly fire rating of the gypsum wall assembly.

3. Fill, Void or Cavity Material* Sealant — Max separation between bottom of gypsum board and top of concrete wall assembly is 3/4 in. (19 mm). Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the bottom of the gypsum board and the top of the concrete wall assembly, flush with each surface of the gypsum wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S Elastomeric Firestop Sealant or CP606 Flexible Firestop Sealant. L Ratings apply only when CP606 Sealant is used.

4. Forming Material — (Optional, Not Shown) - Mineral wool insulation, fiberglass batt insulation or polyurethane/polyethylene foam backer rod. Forming material to be recessed from both surfaces of the 2 hr fire rated wall to accommodate the required thickness of fill material.

*Bearing the UL Classification Mark

