

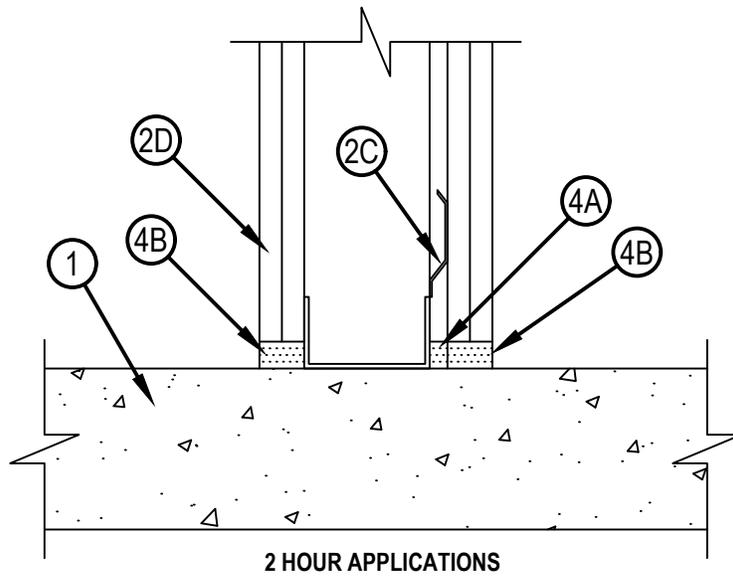
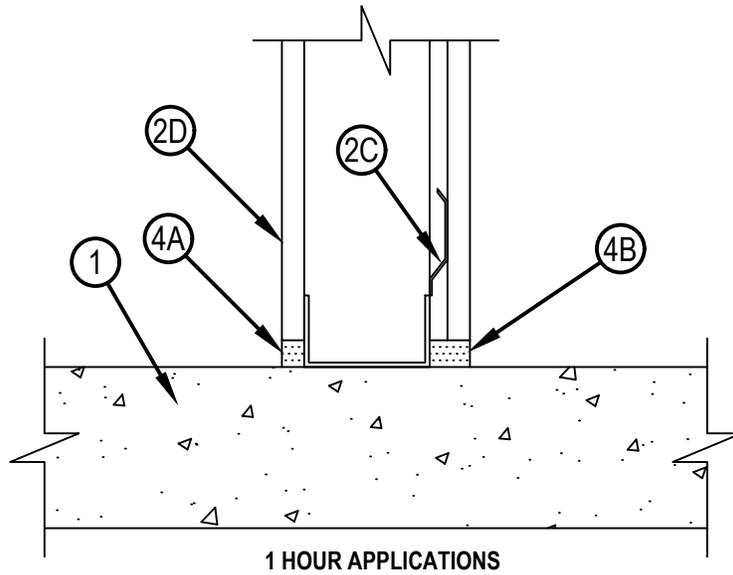


Classified by Underwriters Laboratories, Inc. to UL 2079 and CAN/ULC-S115

System No. BW-S-0071

BWS 0071

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width — 3/4 in. (See Item 3)	FT Ratings — 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Lin Ft	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating at 400°F — Less than 1 CFM/Lin Ft	FTH Ratings — 1 and 2 Hr (See Item 2)
	Nominal Joint Width — 3/4 in. (See Item 3)
	L Rating at Ambient — Less than 1.55 L/s/m Ft
	L Rating at 400°F — Less than 1.55 L/s/m



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1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*.
See Precast Concrete Units category in the Fire Resistance Directory for names of manufactures.
 - 1A. Floor Assembly — (Not Shown, Alternate) The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted units.
 - B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
2. Wall Assembly — The 1 or 2 hr 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 in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system as specified in the HW series Joint Systems in the UL Fire Resistance Directory. The wall 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). Floor runners to be provided with 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 24 in. (610 mm) OC.
 - B. Studs — Steel studs to be min 2-1/2 in. (63 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 20 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.
 - C. Resilient Channels — Maximum 1/2 in. deep furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. (610 mm) OC. Flange portion attached to each intersecting stud as specified in the individual U400, V400 or W400 series design in the UL Fire Resistance Directory.
 - D. Gypsum Board* — One or two layers of 5/8 in. (16 mm) thick gypsum board for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual U400, V400 or W400 Series Design in the UL Fire Resistance Directory, except that a max 3/4 in. (20 mm) gap shall be maintained between the bottom of gypsum board and top of concrete floor. Gypsum board to be installed after Fill, Void or Cavity Material (Item 4) is installed.
The hourly Assembly, F, FT, FH and FTH Ratings of the joint system are equal to the hourly rating of the wall.
3. Batts and Blankets* — (Not shown) Any glass fiber insulation bearing the UL Classification Marking as to fire resistance or surface burning characteristics, of a width and thickness to completely fill stud cavity. Insulation batts friction fit to completely fill all stud cavities.
See Batts and Blankets (BZJZ) category in the Fire Resistance Directory for names of manufacturers
4. Joint System — Max separation between top of floor and bottom of gypsum wallboard is 3/4 in. (19 mm) at time of installation — The joint system consists of the following:
 - A. Bottom Track Seal — For use in 1 hr systems, CFS-BTS is secured to steel floor runner with adhesive backing and resting tight to the top of the concrete floor assembly prior to installation of gypsum board. Install CFS-BTS 5/8 in. Bottom Track Seal on side of wall assembly that doesn't have the resilient channel. Then on side of wall assembly that does have the resilient channel install CFS-BTS 1-1/4 in. Bottom Track Seal for the side of the wall assembly that has Resilient channel. Product to be compressed 1/2 in. (13 mm) at butt seam location by compressing each side evenly
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-BTS 5/8 in. Bottom Track Seal, CFS-BTS 1-1/4 in. Bottom Track Seal
 - B. Bottom Track Seal — For use in 2 hr systems, CFS-BTS is secured to steel floor runner with adhesive backing and resting tight to the top of the concrete floor assembly prior to installation of gypsum board. Install CFS-BTS 1-1/4 in. in. Bottom Track Seal on side of wall assembly that doesn't have the resilient channel. Then on side of wall assembly that does have the resilient channel install CFS-BTS 5/8 in. Bottom Track Seal, then install CFS-BTS 1-1/4 in. Bottom Track Seal so that the adhesive is stuck to the outer surface of the CFS-BTS 5/8 in. creating a total 1-7/8 in. deep firestop for the side of the wall assembly that has Resilient channel. Product to be compressed 1/2 in. (13 mm) at butt seam location by compressing each side evenly.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-BTS 5/8 in. Bottom Track Seal, CFS-BTS 1-1/4 in. Bottom Track Seal

* 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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August 22, 2023

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