

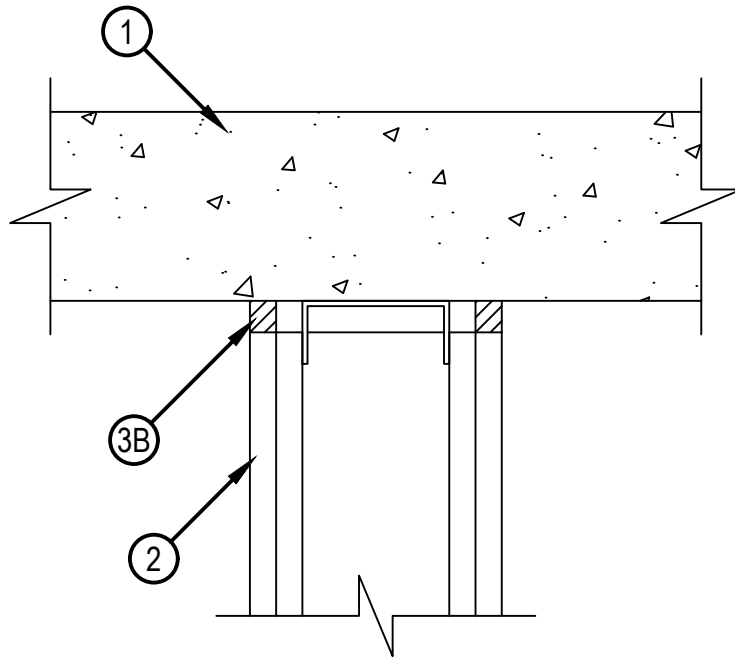


Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

System No. HW-D-0968

HWD 0968

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Rating — 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)
Class II Movement Capabilities – 33% Compression only (See Item 3)	FH Rating — 1 and 2 Hr (See Item 2)
L Rating at Ambient – 3.51 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating at 400°F – Less Than 1 CFM/lin ft	Nominal Joint Width – 3/4 In. (See Item 3)
	Class II Movement Capabilities – 33% Compression (See Item 3)
	L Rating at Ambient – 5.44 L/s/m
	L Rating at 204°C – Less Than 1.55 L/s/m



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.
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 and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Steel Floor and Ceiling Runners – Ceiling runners of wall assembly shall consist of min No. 25 gauge (floor runners) galv or min No. 20 gauge (ceiling runners) galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner secured to concrete floor slab with steel masonry anchors or steel fasteners spaced 24 in. (610 mm) OC.
 - A1. Light Gauge Framing* – Slotted Ceiling Runner – (not shown) – As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of min No. 20 gauge galv steel channel with slotted flanges having flange height of min 2-1/2 in. (64 mm) and sized to accommodate the steel studs (Item 2B). Slotted ceiling runner secured to concrete floor slab with steel masonry anchors or steel fasteners spaced max 24 in. (610 mm) OC.



Hilti Firestop Systems

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August 2, 2023

System No. HW-D-0968

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BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK
CEMCO, LLC — CST
CLARKDIETRICH BUILDING SYSTEMS — Types SLT, SLT-H
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT
METAL-LITE INC — The System
SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track
TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. Light Gauge Framing* — Vertical deflection Ceiling Runner — (not shown) - As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate min 3-1/2 in. (89 mm) steel studs (Item 2B). Vertical deflection ceiling runner secured to concrete floor slab with steel fasteners or steel masonry anchors spaced max 24 in. (610 mm) OC.

THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

A3. Light Gauge Framing* — Notched Ceiling Runner — (not shown) - As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate min 3-1/2 in. (89 mm) steel studs (Item 2B). Notched ceiling runner secured to concrete floor slab with steel masonry anchors or steel fasteners spaced max 24 in. (610 mm) OC.

OLMAR SUPPLY INC — Type SCR

B. Studs — (not shown) - Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 3/4 in. (19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at mid-height of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at mid-height of each slot. As an option, when solid ceiling runner is used, steel studs to be min 3-1/2 in. (89 mm) wide. Stud spacing not to exceed 24 in. (610 mm) OC.

C. Gypsum Board* - For 1 hr assembly, one layer min. 5/8 in. (16 mm) thick Type X, gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min. 5/8 in. (16 mm) thick Type X, gypsum board is required in the individual Wall and Partition Design. 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. (19 mm) gap shall be maintained between the top of gypsum board and bottom of concrete floor. The screws attaching the gypsum board to the studs at the top of the first layer shall be located 5-3/4 in. (146 mm) below the floor. The screws attaching the second layer to the steel studs shall be installed into the studs 3-3/4 in. (95 mm) below the floor.

The hourly fire rating of the joint system is equal to the hourly ratings of the wall assembly in which it is installed.

3. Joint System — Max separation between bottom of floor and top of gypsum board at time of installation of joint system is 3/4 in. (19 mm) for 1 and 2 hr rated assemblies. The joint system is designed to accommodate a maximum 33 percent compression from its installed width for 3/4 in. (19 mm) joints. The joint system consists of the following:

A. Forming Material — (Optional, Not Shown) — For 2 hr rated walls only. Mineral wool insulation, fiberglass batt insulation or polyethylene/polyurethane foam backer rod. Forming material to be friction fit into joint opening and be recessed from both surfaces of the 2 hr fire rated wall to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* - Sealant — Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and the bottom of the concrete floor, flush with each surface of the wall for 1 and 2 hr rated assemblies.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 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.



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