

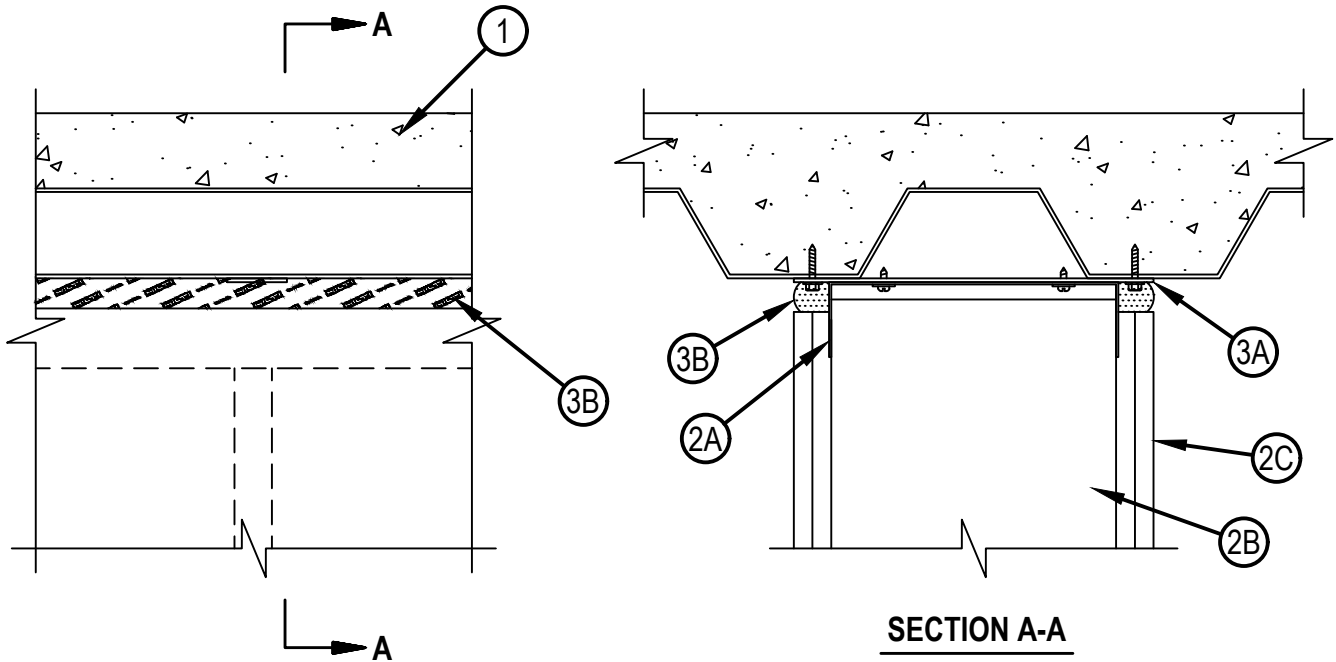


Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

System No. HW-D-0925

HWD 0925

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 Widths — 7/8, 1 or 1-7/8 In (See Item 3)	FT Ratings — 1 and 2 Hr (See Item 2)
Class II or III Movement Capabilities — 62% Compression or Extension, 86 Compression or Extension or 92% Compression only (See Item 3-Table 1)	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 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 Widths – 22, 25 or 41 mm (See Item 3)
	Class II or III Movement Capabilities — 62% Compression or Extension, 86 Compression or Extension or 92% Compression only (See Item 3-Table 1)
	L Rating at Ambient — Less than 1.55 L/s/m
	L Rating at 204°F — Less than 1.55 L/s/m



- 1. Floor Assembly** — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the floor assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The floor assembly shall include the following construction features:
 - A. Steel Floor And Form Units*** — 1-1/2, 2 or 3 in. (38, 51 or 76 mm) deep galv fluted floor units.
 - B. Concrete** — Min 2-1/2 in. (64 mm) thick reinforced (100-150 pcf or 1600-2400 kg/m³) concrete, as measured from the top plane of the floor units.
- 2. 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:



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 2, 2024

System No. HW-D-0925

HWD 0925

A. Light Gauge Framing* — Slotted Ceiling Runner — Ceiling runner of wall assembly shall consist of min No. 20 gauge galv steel channels with min 2-1/2 in. (64 mm) slotted legs sized to accommodate steel studs (Item 2B). Slotted ceiling runner to be installed parallel to direction of and centered under steel deck flute with a min 7/8 in. (22 mm) overlap of ceiling runner to valleys of fluted deck along each side of flute. Slotted ceiling runner secured to steel straps (Item 3A) with two steel min No. 10 by 3/4 in. (19 mm) steel screws spaced max 24 in. (610 mm) OC. Alternately, slotted ceiling runner may be secured directly to valleys of steel deck at each side of flute with steel masonry anchors or fasteners spaced max 24 in. (610 mm) OC along each side.

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

A1. 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).

B. Studs — Steel studs to be min 6 in. (168 mm) wide for 1-1/2 in. (38 mm) deep galv fluted floor units (Item 1A) and min 8 in. (203 mm) wide for 2 and 3 in. (51 and 76 mm) deep galv fluted floor units. Studs cut 3/4 to 1 in. (19 to 25 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in slotted ceiling runner (Item 2A). 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.

C. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. The screws attaching the gypsum board to studs at the top of the wall shall be located 3-1/2 in. (89 mm) to 5-1/2 in. (138 mm) below the bottom edge of the ceiling runner.

The hourly ratings of the joint system are dependent on the hourly rating of the wall.

3. Joint System — Max separation between the bottom of steel floor unit and top of wall (Item 2C) is 7/8 in. (22 mm), 1 in (25mm), or 1-5/8 in (41mm). See Item 3-Table 1 for more details.. The joint system consists of the following:

Table 1

Max Nom Joint Width, In. (mm)	Max Movement Capabilities, (% of nominal)		Max Movement, in. (mm)
7/8 (22)	Compression	86%	3/4 (19)
	Extension	86%	3/4 (19)
1 (25)	Compression	62%	5/8 (16)
	Extension	62%	5/8 (16)
1-5/8 (41)	Compression	92%	1-1/2 (38)
	Extension	0%	0



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 2, 2024

System No. HW-D-0925

HW-D-0925

As an alternative to the movement percentages above, the joint system may move freely without restriction to the percentage of movement within the range of a min 1/8 in. (3 mm) to max 1-5/8 in. (41 mm) joint width.

- A. Steel Straps — Nom 2 in. wide min No. 20 gauge steel straps, spaced max 24 in. OC. Steel straps cut to overlap onto two adjacent valleys of floor assembly a min of 1-1/4 in. (32 mm) and secured using one min 1-1/4 in. (32 mm) long steel concrete anchor or fastener at each end.
- B. Fill, Void or Cavity Material* — Top Track Seal — Factory supplied foam seal installed over the slotted ceiling ceiling runner (Item 2A) prior to attachment to steel straps (or steel deck) in accordance with the installation instructions. The CFS-TTS MD OS is separated in half at the perforation and adhered on each side of the ceiling runner with the self-adhesive strips. Top Track Seal compressed min 1/2 in. (13 mm) at seam.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-TTS MD OS or CFS-TTS MD 600 Firestop Top 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

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
October 2, 2024