

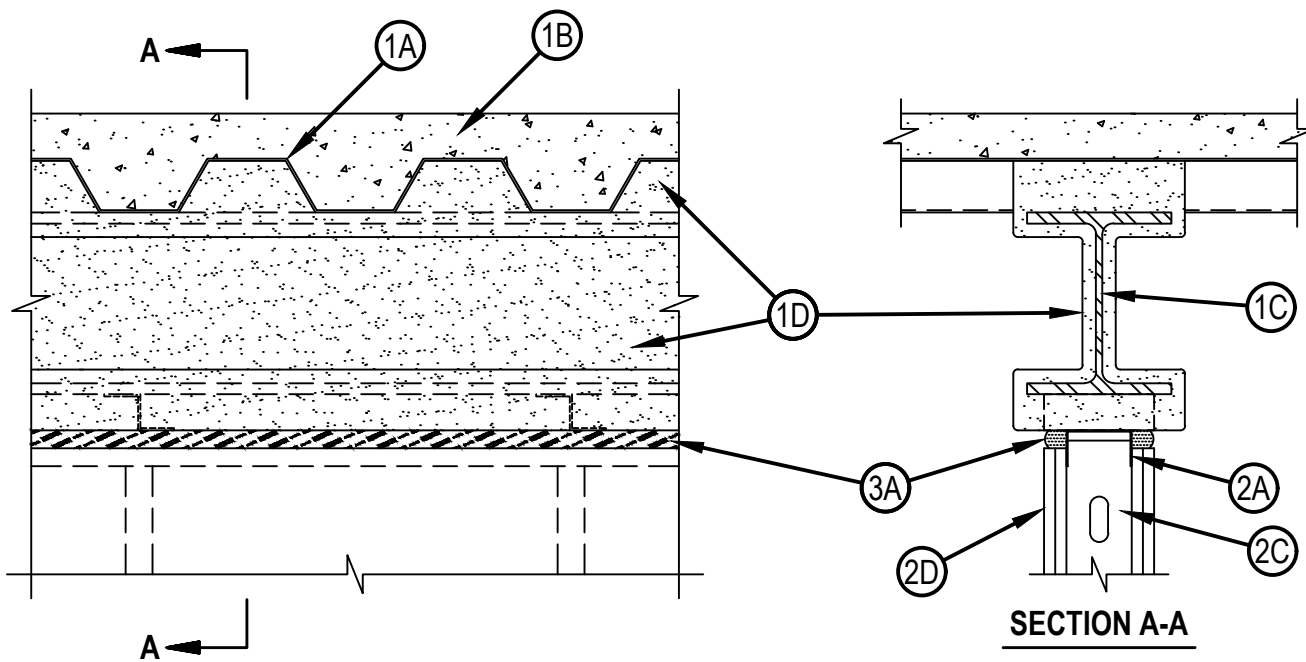


Classified by  
Underwriters Laboratories, Inc.  
to UL 2079 and CAN/ULC-S115

# System No. HW-D-0875

HWD 0875

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)
Nominal Joint Widths - 7/8, 1 or 1-5/8 in. (See Item 3)	FT Ratings — 1 and 2 Hr (See Items 1 and 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 Items 1 and 2)
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Items 1 and 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°C — Less than 1.55 L/s/m



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October 2, 2024

1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the 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 floor units.
  - B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
  - C. Structural Steel Support — Steel beam, as specified in the individual D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support centered over and parallel with wall assembly.
  - D. Spray-Applied Fire Resistive Material\* — Structural steel supports to be sprayed in accordance with the specifications in the individual D900 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. Additional material shall be applied to the web of the steel beam on each side of the wall. For a 1 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 13/16 in. (21 mm). For a 2 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 1-3/8 in. (35 mm).

GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB
  - D1. Spray-Applied Fire Resistive Material\* — Structural steel support to be sprayed with the min thickness of material specified in the individual D900 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. Additional material shall be applied to the web of the steel beam on each side of the wall. For a 1 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 11/16 in. (18 mm). For a 2 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 1-1/2 in. (38 mm).

ISOLATEK INTERNATIONAL — Type 300, Type 400
2. Wall Assembly\* — The 1 or 2 h fire rated gypsum board/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 — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner is secured to steel beam (Item 1C) through the thickness of the spray-applied fireproofing material (Item 1D) with steel attachment clips (Item 2B) spaced max 24 in. (610 mm) OC. Ceiling runner to be centered beneath and parallel with bottom flange of steel beam.
  - A1. Light Gauge Framing\* — Slotted Ceiling Runner may be used as an alternate to the ceiling runner in Item 2A. Slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Flange height of slotted ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Slotted ceiling runner centered beneath and parallel with structural steel support (Item 1C) and secured to steel attachment clips (Item 2B) with steel fasteners or welds spaced max 24 in. (610 mm) OC.

CEMCO, LLC — CST  
CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H  
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT  
RAM SALES L L C — RAM Slotted Track  
SCAFCO STEEL STUD MANUFACTURING CO  
TELLING INDUSTRIES L L C — True-Action Deflection Track  
THE STEEL NETWORK INC — VertiTrack VT series, 250VT, 362VT, 400VT, 600VT and 800VT
  - B. Steel Attachment Clips — (Not Shown) — "Z"-shaped clips formed from strips of min 20 ga galv steel. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom flange of the steel beam with 2 in. (51 mm) long upper and lower legs. Legs of clips fastened to bottom of beam (prior to application of spray-applied fire-resistive materials) and top of slotted ceiling runner, after installation of the Top Track Seal (Item 3A), with steel fasteners. Clips spaced max 24 in. (610 mm) OC.
  - C. Studs — Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 1 in. (13 to 25 mm) less in length than assembly height with bottom nesting in and fastened to the floor runner and with top nesting in slotted ceiling runner. Steel studs secured to slotted ceiling runner with min 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.



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D. Gypsum Board\* — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, number of layers an sheet orientation shall be as specified in the individual U400, V400 or W400 Series Design in the Fire Resistance Directory, except that a max 1 in. (25 mm) or 1-1/2 in. (38 mm) gap shall be maintained between top edge of the gypsum board and the spray applied fire resistive material on the bottom of the structural steel support . 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 rating of the joint system is dependent on the hourly rating of the wall.

3. Joint System — Max separation between the bottom of steel floor unit, or flute cover, and top of wall is 7/8 in. (22 mm), 1 in (25mm), or 1-5/8 in (41mm). See Table 1 for more details, and top of wall 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 a fill material installed on the slotted ceiling runner as follows:

A. Fill, Void or Cavity Material\* — Top Track Seal — Factory supplied foam seal installed over the slotted ceiling runner (Item 2A1) prior to attachment to underside of steel beam, in accordance with the installation instructions.

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

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

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.

\* 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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