

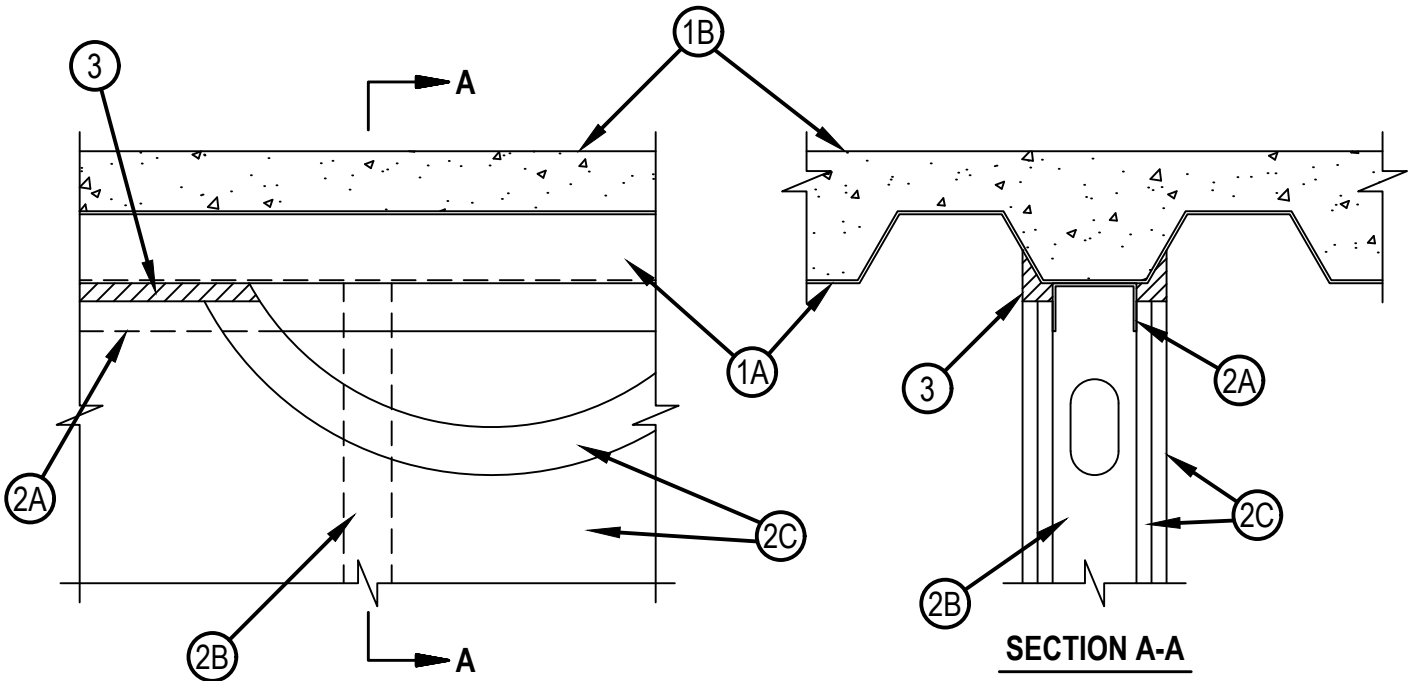


Classified by  
Underwriters Laboratories, Inc.  
to UL 2079 and CAN/ULC-S115

# System No. HW-S-0037

HWS 0037

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



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1. Floor Assembly — The 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 and shall include the following construction features:
  - A. Steel Floor and Form Units\* — Max 3 in. (76 mm) deep galv 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 wallboard/steel stud assembly shall be constructed of the materials and in the manner described in the individual U400-Series Wall and Partition Designs 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 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with 2 in. (51 mm) flanges. Ceiling runner centered on valley of steel floor unit (Item 1A) and secured with steel fasteners spaced max 12 in. (305 mm) OC.
  - B. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Steel studs cut 1 in. (25 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. Steel stud spacing not to exceed 24 in. (610 mm) OC.
  - C. Gypsum Board\* — Wallboard sheets to be installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of the wall for a 1 or 2 hr fire rated wall, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 1/2 in. to 3/4 in. (13 to 19 mm) gap shall be maintained between the top of the wallboard and the bottom of the steel floor units. The screws attaching the wallboard to studs at the top of the wall shall be located 4 in. (102 mm) from the steel floor unit valleys. No screws are to be installed closer than 4 in. (102 mm) from the steel floor unit valleys. The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall.
3. Fill, Void or Cavity Material\* — Sealant — Max separation between bottom of floor and top of wall is 3/4 in. (19 mm). — Fill material installed on each side of the wall between the top of the wallboard and the bottom of the steel floor unit, flush with each surface of wallboard. A min 5/8 or 1-1/4 in. (16 or 32 mm) thickness of fill material is required for a 1 or 2 hr fire rated wall, respectively.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or 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.