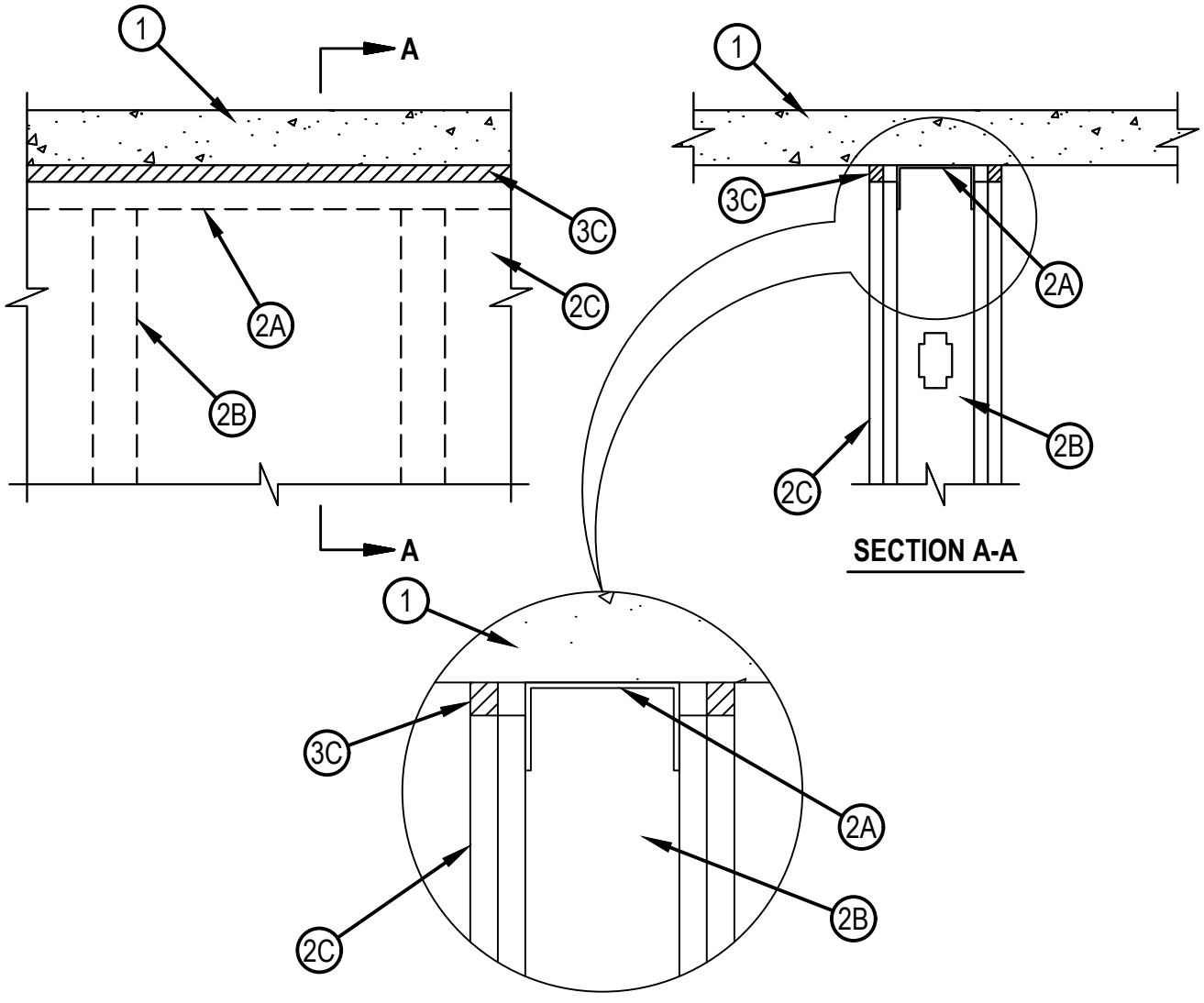
Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

System No. HW-S-0036

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



Hilti Firestop Systems

System No. HW-S-0036

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 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 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 secured to valleys of steel floor units (Item 1A) 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 treatment system is dependent on the hourly fire rating of the wall.
3. Joint System — Max separation between bottom of floor and top of wall is 3/4 in. (19 mm) — The joint system consists of a packing material and a fill material in the flutes of the steel floor units above the wall assembly, as follows:
   A. Packing Material — Min 2-3/4 and 4 in.(70 and 102 mm) thickness of min 4.0 pcf (64 kg/m3) density mineral wool batt insulation for 1 hr and 2 hr rated walls, respectively. Packing material to be firmly packed into flutes of the steel floor units, and between gypsum board and bottom of steel floor units (in 2 hr rated walls), as a permanent form and recessed from both surfaces of the wall as required 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 in the flutes of the steel floor units and between the top of the wallboard and the bottom of the steel floor units, flush with each surface of wallboard.
   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.