



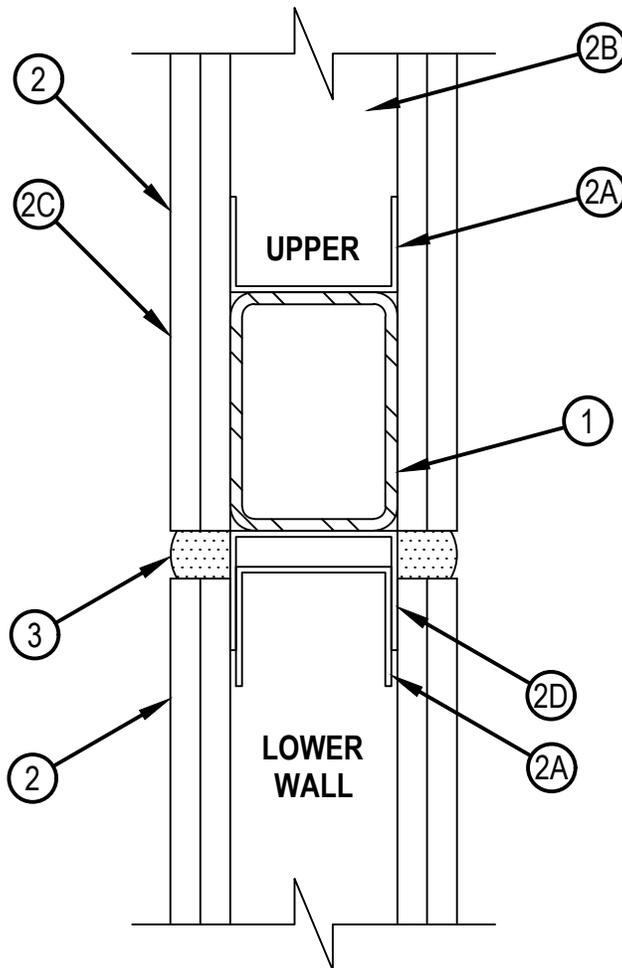
Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

System No. HW-D-0990

HWD 0990

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 Width - 1 In.	FT Ratings — 1 and 2 Hr (see Item 2)
Class II Movement Capabilities - 50% Compression or Extension	FH Ratings — 1 and 2 Hr (see Item 2)
	FTH Ratings — 1 and 2 Hr (see Item 2)
	Nominal Joint Width - 25 mm
	Class II Movement Capabilities - 50% Compression or Extension

CROSS-SECTIONAL VIEW



System No. HW-D-0990

HW-D-0990

1. Structural Steel Support — Hollow Steel Shape (HSS) max size 4 x 8 in. (102 x 203 mm). Steel Support not evaluated as a load-bearing member.
2. Wall Assembly —The 1 or 2 hr 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 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Floor runner secured to Structural Steel Support (Item 1) with steel fasteners or welds spaced max 24 in. (610 mm) OC.
 - B. Studs —Steel studs to be min 3-1/2 in. (64 mm) wide. 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 ceiling runner without attachment. Steel studs secured to slotted ceiling runner (Item 2D) 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 fire rating of the joint system is equal to the hourly fire rating of the wall.
 - D. Slotted Ceiling Runner — Slotted deflection track (20 ga) sized to accommodate runner, with 2-1/2 in. (64 mm) legs positioned over the lower wall ceiling runner to create a nominal 3/4 in. (19 mm) gap between the tracks. Install screws through the slots of the deflection track into the lower wall steel ceiling runner at mid-height of slot with No. 10 x 1/2 in. (13 mm) long steel self-drilling screws.
3. Joint System —Max width of joint (at time of installation of joint system) is 1 in. (25 mm) The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system shall consist of the following:
 - A. Fill, Void or Cavity Material* — Top Track Seal — Factory supplied foam seal installed over the slotted ceiling runner (Item 1D) prior to attachment to underside of upper wall assembly 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

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.