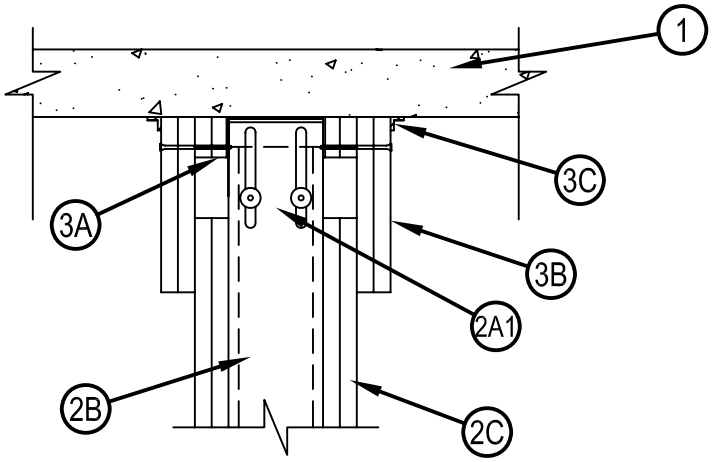
Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

System No. HW-D-0466

Assembly Rating —1 and 2 Hr (See Item 2)
Nominal Joint Width — 3/4 In.
Class II Movement Capabilities — 100% Compression or 50% Extension



1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. See Precast Concrete Units (CFTV) category in the Fire Resistance Directory for names of manufacturers. The hourly fire rating of the floor assembly shall be equal or greater than the hourly fire rating of the wall assembly.
2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 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 galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with 1-1/2 in. (38 mm) flanges. Ceiling runner secured to floor with steel masonry anchors or steel fasteners spaced max 24 in. 610 mm) OC.

A1. Light Gauge Framing* - Vertical Deflection Ceiling Runner — Vertical deflection ceiling runner may be used as an alternate to the ceiling runners in Items 2A. Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner secured to floor with steel masonry anchors or steel fasteners spaced max 24 in. (610 mm) OC.

THE STEEL NETWORK INC — VertiTrack VTD362, VTD400, VTD600 and VTD800

A2. Light Gauge Framing Members* — As an option, the steel studs (Item 2B) may incorporate vertical deflection clips for attachment to the ceiling runner (Item 2A) in accordance with the manufacturer's instructions.

THE STEEL NETWORK INC — VertiClip SLD 250, VertiClip SLD 362, VertiClip SLD 400, VertiClip SLD 600, VertiClip SLD 800

B. Studs — Steel studs to be min 3-1/2 in. (89 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. When vertical deflection ceiling runner (Item 2A1) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

C. Gypsum Board* — Gypsum board installed to a min total thickness of 5/8 in. and 1-1/4 in. (16 and 32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 2-1/4 in. (57 mm) gap shall be maintained between the top of the gypsum board and the floor and the top row of screws shall be installed into the studs 3-1/2 to 4 in. (89 to 102 mm) below the lower surface of the floor. The hourly rating of the joint system is dependent on the hourly rating of the wall.

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3. Joint System — Max separation between bottom of floor and top of wall at time of installation of joint system is 2 1/4 in. (57 mm). The joint system is designed to accommodate a max 100 percent compression and 50 percent extension based on a max 3/4 in. (19 mm) separation after wall cladding has been installed. The joint system consists of wall cladding, forming material, and a fill material, as follows:
   A. Wall Cladding — Strips of the gypsum board material attached to the ceiling runner. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 24 in. (610 mm) OC. The top of the wall cladding shall be flush with the bottom of the floor and extend to the bottom of the ceiling runner.
   B. Wall Cladding — Strips of the gypsum board material attached through the wall cladding (3A) and to the ceiling runner. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 6 in. (152mm) OC. The top of the wall cladding shall be flush with the bottom of the floor and overlap the gypsum board min. 6-1/2 (165mm).
   C. Fill, Void or Cavity Material* — Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of the wall at the interface of gypsum board (Item 3B) and floor. Fill material to overlap a min of 1/2 in. (13 mm) onto gypsum board and concrete floor on both sides of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 672 Firestop Joint Spray or CFS-SP WB Firestop Joint Spray
   C1. Fill, Void or Cavity Material* — As an alternate to Item 3C, min 1/2 in. (13 mm) bead of sealant applied on each side of the wall at the interface of gypsum board (Item 3B) and floor.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Flexible Firestop Sealant

*Bearing the UL Classification Mark