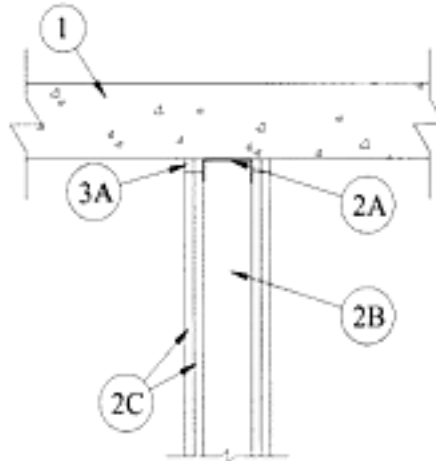


System No. HW-D-0016

Assembly Ratings — 1 and 2 Hr (See Item 2)

Nominal Joint Width — 1 In.

Class II and III Movement Capabilities — 25% Compression



1. **Floor Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf (1600-2400 kg/cu meter)) structural concrete.
2. **Wall Assembly** — The 1 or 2 h fire-rated gypsum board/steel stud wall 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 runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runners of wall assembly shall consist of min No. 26 gauge galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runners to be provided with 2 in. (51 mm) flanges. Ceiling runner secured to lower surface of floor with steel fasteners spaced max 7 in. (178 mm) OC.
 - A1. **Light Gauge Framing* — Clipped Ceiling Runner** — As an alternate to the ceiling runner in Item 2A, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. (64 mm). Clipped ceiling runner installed to concrete floor (Item 1) with steel fasteners spaced max 24 in. (610 mm) OC.

TOTAL STEEL SOLUTIONS L L C — Snap Trak

- A2. **Light Gauge Framing — Floor and Ceiling Runners** — As an alternate to the ceiling and floor runners in Item 2A and 2A1, floor and ceiling runners to consist of galv steel channel sized to accommodate the **Light Gauge Framing* Slotted Stud** (Item 2B1) or **Light Gauge Framing* Slider C-Clip System** (Item 2B2). Floor and ceiling runners to be provided with min 1-1/4 in. (32 mm) and 3 in. (76 mm) flanges, respectively. Ceiling runner secured to lower surface of floor with steel fasteners spaced max 12 in. (305 mm) OC.

STEELER INC — Floor and Ceiling Runners

A3. **Light Gauge Framing* - Slotted Ceiling Runner** — As an alternate to the ceiling runner in Items 2A, 2A1 and 2A2, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Ceiling runner secured to concrete floor with steel fasteners spaced max 24 in. (610 mm) OC.

SLIPTRACK SYSTEMS INC — SLP-TRK

- B. **Studs** — Steel studs to be min 2-1/2 in. (64 mm) wide. 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. *When slotted ceiling runner (Item 2A3) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall.* Stud spacing not to exceed 24 in. (610 mm) OC.



Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc.
Copyright © 2008 Underwriters Laboratories Inc. ®

Tremco Commercial Sealants & Waterproofing

3735 Green Road, Beachwood, OH 44122 // Phone: 216.292.5000 // 800.321.7906
220 Wicksteed Avenue, Toronto, ON M4H 1G7 // Phone: 416.421.3300 // 800.363.3213
1451 Jacobson Avenue, Ashland OH 44805 // Phone: 419.289.2050 // 800.321.6357

- B1. **Light Gauge Framing* —Slotted Studs** — Slotted steel stud to be used in conjunction with **Light Gauge Framing* —Floor and Ceiling Runners** (Item 2A4). Slotted steel studs to be min 2-1/2 in. (64 mm) wide. Slotted steel studs cut 1 in. (25 mm) less in length than assembly height with bottom nesting in and secured to both ceiling and floor runners. Ceiling runner secured to preformed slot within steel stud by means of No. 10 by 3/4 in. (19 mm) long low profile head steel screw. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Slotted steel stud spacing not to exceed 24 in. (610 mm) OC.

STEELER INC — Slotted Stud

- B2. **Light Gauge Framing* —Slider C-Clip System** — As an alternate to the **Light Gauge Framing* —Slotted Steel Studs** (Item 2B1), a Slider C-Clip System consisting of a C shaped steel clip with a slotted opening and a steel stud to be used in conjunction with **Light Gauge Framing —Floor and Ceiling Runners** (Item 2A2). Steel clips and studs to be min 2-1/2 in. (64 mm) wide. Steel clip inserted into inside flange of steel stud without attachment. Total length of steel stud cut 1 in. (25 mm) less than assembly height with bottom of steel stud nesting in and secured to floor runner. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Ceiling runner secured to steel C-Clip by means of No. 10 by 3/4 in. (19 mm) long pan head steel screw located 3/8 in. (10 mm) below top of ceiling runner. Top row of gypsum board screws shall be centered within the preformed slot of the C-Clip. Steel stud and steel clips spacing not to exceed 24 in. (610 mm) OC.

STEELER INC — Slider C Clip System

- C. **Gypsum Board*** — Gypsum board sheets installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of wall for a 1 or 2 h 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 max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the lower surface of the floor. The top row of screws shall be installed into the studs 4 in. (102 mm) below the lower surface of the floor. The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

Configuration A #

3. **Joint System — Max separation between bottom of floor and top of wall (at time of installation of joint system) is 1 in. (25 mm). The joint system is designed to accommodate a max 25 percent compression from its installed width.** The joint system consists of a fill material between the top of the wallboard and the bottom of the floor, as follows:
- A. **Fill, Void or Cavity Material*** — A min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and bottom of the concrete floor.

TREMCO INC — TREMstop Acrylic or Fyre-Sil

*Bearing the UL Classification Mark

Other Configurations are available with this system



Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc.
Copyright © 2008 Underwriters Laboratories Inc. ®