

**System No. HW-D-0134**

June 24, 2011

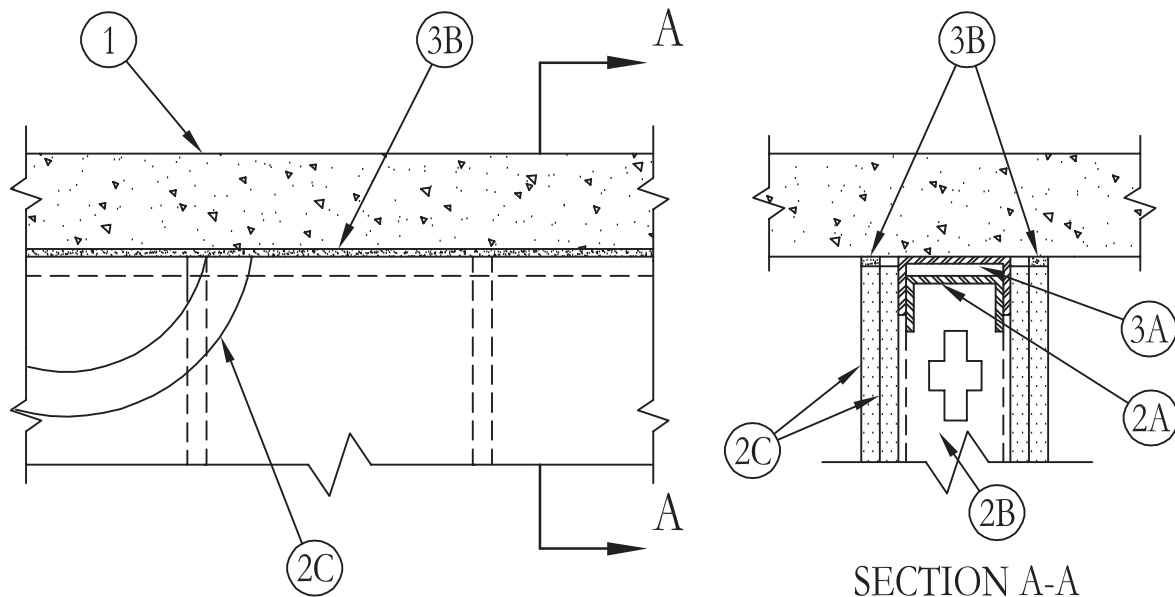
Assembly Rating – 1 and 2 Hr (See Item 2)

L Rating At Ambient – 4 CFM/Lin Ft

L Rating At 400 F – 6 CFM/Lin Ft

Nominal Joint Width – 3/4 In.

Class II Movement Capabilities – 17% Compression or Extension



1. **Floor Assembly** – Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete.
2. **Wall Assembly** – The 1 or 2 fire rated gypsum wallboard/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). When U-shaped deflection channel (Item 3A) is used, ceiling runner installed within the deflection channel with 1 in. (25 mm) gap maintained between the top of ceiling runner and top of deflection channel. When deflection channel is not used, ceiling runner secured to concrete floor slab with steel masonry anchors spaced a max of 24 in. (610 mm) OC.
  - A1. **Light Gauge Framing\* – Slotted Ceiling Runner** – As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.

**BRADY CONSTRUCTION INNOVATIONS INC,**  
**DBA SLIPTRACK SYSTEMS – SLP-TRK**

**CLARKWESTERN BUILDING SYSTEMS INC** – Type SLT, SLT-H

**MARINO/WARE, DIV OF WARE INDUSTRIES INC** – Type SLT

**METAL-LITE INC** – The System

**SCAFCO STEEL STUD MANUFACTURING CO**

**TELLING INDUSTRIES L L C** – True-Action Deflection Track

- A2. **Light Gauge Framing\* – Notched Ceiling Runner** – As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used.
 

**OLMAR SUPPLY INC** – Type SCR
- B. **Studs** – Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height. Studs attached to ceiling runner with sheet metal screws a min of 1/2 in. (13 mm) below bottom of deflection channel, when deflection channel is used. When deflection channel is not used, steel studs shall not be secured to ceiling runner. When slotted ceiling runner (Item 2A1) 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.
- C. **Gypsum Board\*** – Gypsum board sheets installed to a min total thickness of 5/8 in. (16 mm) and 1-1/4 in. (32 mm) on each side of wall for a 1 or 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 nom 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the lower surface of the floor. The screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of the U-shaped deflection channel (Item 3A) or slotted ceiling runner (Item 2A1).

The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall.

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3. **Joint System – Max separation between bottom of floor and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 17 percent compression or extension from its installed width.** The joint system consists of a deflection channel forming material and a fill material, as follows:
- A. **Deflection Channel – (Optional)** – A nom 3-3/4 in. (95 mm) wide by min 2 in. (51 mm) deep min 24 ga steel U-shaped channel. Deflection channel secured to concrete floor slab with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. (25 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.
  - B. **Fill, Void or Cavity Material\* – Caulk** – Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and bottom of floor, flush with each surface of gypsum board.
- 3M COMPANY – FD-150+**

\*Bearing the UL Classification Mark

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Construction Joints

Head of Wall

**HWD**