

## System No. HW-D-0256

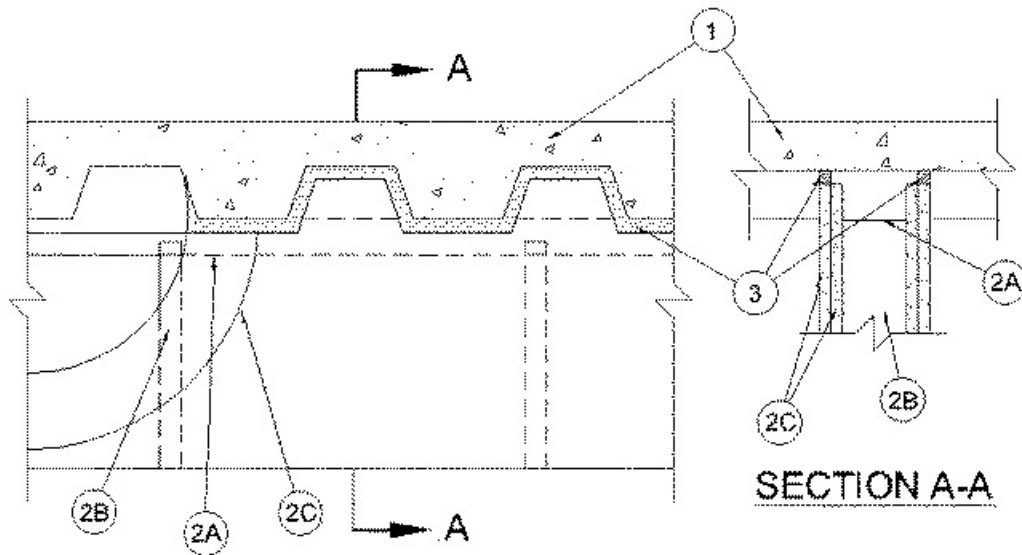
July 20, 2002

Assembly Ratings - 1 and 2 hr (See Items 2 and 3)

Nominal Joint Width - 1/2 in.

Class II and III movement capabilities - 25 % compression or extension

(UL/cUL)



1. **Floor Assembly** The fire rated 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. deep galv steel fluted floor units.
  - B. **Concrete** Min 2-1/2 in. thick reinforced lightweight or normal weight concrete, as measured from the top plane of the floor units.
- 1A. **Roof Assembly – (Not Shown)** As an alternate to the floor assembly, a fire-rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
  - A. **Steel Roof Deck** Max 3 in. deep galv steel fluted roof deck.
  - B. **Roof Insulation** Min 2-1/4 in. thick poured insulating concrete, as measured from the top plane of the roof deck.
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 described in the individual U400 and 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. Ceiling runner to be provided with min 1-1/4 in. flanges. Ceiling runner secured to steel floor units or roof deck with steel fasteners or welds spaced max 12 in. 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 is secured to bottom of steel floor units or roof deck with steel fasteners or by welds spaced max 24 in. OC.
  - A2. **Light Gauge Framing\* – Vertical Deflection Ceiling Runner** As an alternate to the ceiling runners in Items 2A and 2A1, 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

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studs (Item 2B). Vertical deflection ceiling runner secured to bottom of steel floor units or roof deck with steel fasteners or by welds spaced max 24 in. OC.

**THE STEEL NETWORK INC** – VertiTrack VTD250, VTD358, VTD400, VTD600 and VTD800

- B. **Studs** Steel studs to be min 3-5/8 in. wide. Studs cut 1/2 in. to 3/4 in. less in length than assembly height with the bottom nesting in and resting on floor runner and with the top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) 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. OC.
- C. **Gypsum Board\*** Gypsum board sheets installed to a min total thickness of 5/8 in. and 1-1/4 in. on each side of wall for 1 and 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that the gypsum board is cut to follow the contour of the steel floor units or roof deck with a nom 1/2 in. gap maintained between the gypsum board and the steel floor units or roof deck. In addition, the top row of screws shall be installed into the steel studs 1/2 to 1 in. below the bottom edge of the ceiling runner flange.

**The hourly fire rating of the joint system is dependent on the hourly rating of the wall assembly in which it is installed.**

**Configuration A**

3. **Joint System** Max separation between bottom of steel floor units or roof deck and top of wall is 1/2 in. The joint system is designed to accommodate a max 25 percent compression or extension from its installed width. The joint system consists of the following:
- A. **Fill, Void or Cavity Material\* – Sealant** Min 5/8 in. thickness of fill material applied within joint opening on both sides of wall, flush with each surface of gypsum board

**TREMCO INC** – TREMstop Acrylic

\*Bearing the UL Classification Mark

# Other Configurations are available with this system



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**Tremco Commercial Sealants & Waterproofing**

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