

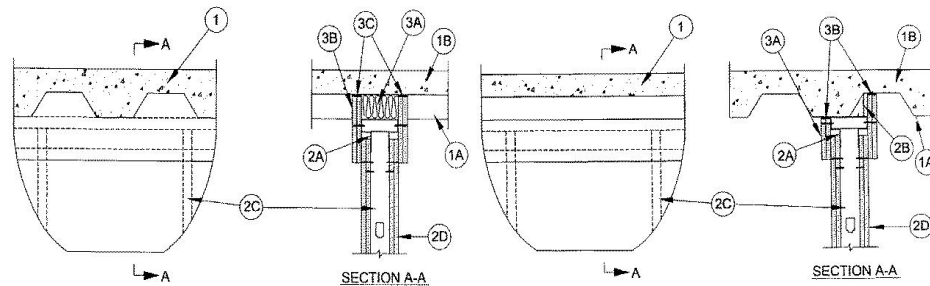
System No. HW-D-0060

October 08, 2003

Assembly Ratings — 1, 2 and 3 Hr (See Item 2)

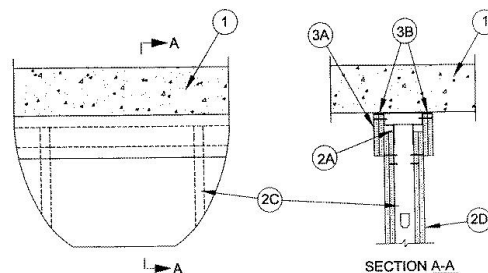
Nominal Joint Width — 1 IN.

Class II and III Movement Capabilities — 100% Compression or Extension
(UL/cUL)



CONFIGURATION A

CONFIGURATION B



CONFIGURATION C

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. The hourly fire rating of the floor assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The floor assembly shall include the following construction features:
 - A. **Steel Floor and Form Units*** — Max 3 in. deep galv fluted floor units.
 - B. **Concrete** — Min 2-1/2 in. thick reinforced (100-150 pcf) concrete, as measured from the top plane of the floor units.
- 1A. **Roof Assembly** — As an alternate to Item 1, the fire-rated roof assembly shall be constructed of the materials and in the manner described in the individual P700, P800 or P900 series Roof-Ceiling Designs in the UL Fire Resistance Directory and shall contain max 3 in. deep galv steel fluted roof units. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. In the case of spray-applied protection materials on the steel roof units, the joint system shall be installed prior to the spray-applied protection material.
- 1B. **Floor Assembly** — As an alternate to Item 1, min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) structural concrete.
2. **Wall Assembly** — The 1, 2 or 3 hr fire-rated gypsum board /steel 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. **Light Gauge Framing* - Deflection Trak** — Deflection trak of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C) and with offset legs to accommodate wall cladding (Item 3A). Deflection trak installed parallel or perpendicular to the floor units. When installed perpendicular (Configuration A), min No. 25 gauge deflection trak secured on both sides to valley of floor units with 1-1/2 in. long welds spaced max 12 in. OC. Min No. 20 gauge deflection trak may be secured with steel fasteners spaced 12 in. OC. When installed parallel (Configuration B), min No. 25 gauge deflection trak secured on one side to valley of floor units with 1-1/2 in. long welds spaced 12 in. OC. Min No. 20 gauge deflection trak may be secured with steel fasteners spaced max 12 in. OC. The other side of the deflection trak is secured to Z-Furring clips (Item 2B) with two No. 8 by 1/2 in. long tec screws. On concrete floor (Configuration C), min No. 20 gauge deflection trak attached to concrete at ceiling with steel fasteners spaced max 12 in. OC.

FIRE TRAK CORP — Shadowline

- B. **Z-Furring - (Parallel Units)** — When trak is installed parallel to floor units, Z-Furring clips are attached to the bottom of the floor units within the crests with two steel fasteners . Clip spacing not to exceed 24 in. OC.
- C. **Studs** — Steel studs to be min 2-1/2 in. wide and as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Studs cut 1-1/2 in. less in length than the assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. Stud spacing not to exceed 24 in. OC.
- D. **Gypsum Board*** — Gypsum board sheets installed and attached to studs and runners as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nominal 1 in. gap shall be maintained between top of the gypsum board and the bottom flange of the deflection trak. Top row of screws shall be installed into the studs 3 in. below the top edge of the gypsum board sheets.

The hourly assembly rating of the joint system is equal to the fire rating of the wall.

Firestop Configuration A

- 3. **Joint System — Max separation between bottom flange of the deflection trak and top of wallboard (at the time of installation of the joint system) is 1 in.** The joint system is designed to accommodate a max 100 percent compression or extension from its installed width. The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:
 - A. **Packing Material** — Min 4 pcf density mineral wool batt insulation cut to the shape of the fluted deck, 25 percent larger than the area of the flutes and compressed into the flutes of the steel floor units above the ceiling runner as a permanent form.
 - B. **Wall Cladding** — Strips of the gypsum board material cut to the contour of the steel floor units and attached to the deflection trak. 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 3 in. OC. The top of the wall cladding shall be recessed min 1/8 in. to max 1/2 in. from the steel floor units and overlap the gypsum board 4 in.
 - C. **Fill, Void or Cavity Material*** — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding.

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Firestop Configuration B

- 3. **Joint System — Max separation between bottom flange of the deflection trak and top of wallboard (at the time of installation of the joint system) is 1 in.** The joint system is designed to accommodate a max 100 percent compression or extension from its installed width. The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:
 - A. **Wall Cladding** — Strips of the gypsum board material attached to the deflection trak. 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 3 in. OC. The top of the wall cladding shall be recessed min 1/8 in. to max 1/2 in. from the steel floor units and overlap the gypsum board 4 in.
 - B. **Fill, Void or Cavity Material*** — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding.

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Firestop Configuration C

- 3. **Joint System — Max separation between bottom flange of the deflection trak and top of wallboard (at the time of installation of the joint system) is 1 in.** The joint system is designed to accommodate a max 100 percent compression or extension from its installed width. The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:
 - A. **Wall Cladding** — Strips of the gypsum board material attached to the deflection trak. 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 3 in. OC. The top of the wall cladding shall be recessed min 1/8 in. to max 1/2 in. from the bottom of the concrete floor and overlap the gypsum board 4 in.
 - B. **Fill, Void or Cavity Material*** — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the bottom of the concrete floor , flush with each surface of the cladding.

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*Bearing the UL Classification Mark



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