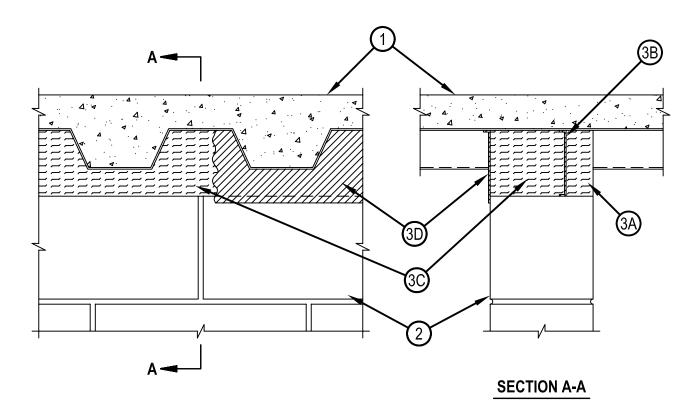


System No. HW-D-0285

Assembly Rating — 2 Hr Nominal Joint Width — 2 In.

L Rating At Ambient — Less Than 1 CFM/Lin Ft L Rating At 400°F — Less Than 1 CFM/Lin Ft

Class II Movement Capabilities — 12.5% Compression or Extension



- 1. Floor Assembly The fire rated fluted steel unit/concrete floor assembly shall be constructed of the materials and in a manner described in the individual D900 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. (76 mm) deep galv steel fluted floor units.
 - B. Concrete Min 2-1/2 in. (64 mm) thick reinforced concrete as measured from 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 2 in. (51 mm) deep galv steel fluted roof deck.
 - B. Roof Insulation Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.



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Assembly Rating — 2 Hr Nominal Joint Width — 2 In.

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- 2. Wall Assembly Min 8 in. (203 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*.
 - See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- 3. Joint System Max separation between bottom of floor or roof and top of wall at time of installation of joint system is 2 in. (51 mm). The joint system is designed to accommodate a max 12.5 percent compression or extension from its installed width. The joint system shall consist of the following:
 - A. Forming Material Nom 4 pcf (64 kg/m3) mineral wool batt insulation, min 2 in. (51 mm) wide, compressed and firmly packed to fill the flutes and the gap between the top of the wall and bottom of the floor or roof as a permanent form on one side of the wall. Batt insulation cut to the shape of the fluted steel deck, approx 33 percent larger than the flutes. Pieces compressed and installed cut edge first into the flutes above the top of the wall. Additional pieces of batt insulation, min 2 in. wide, installed edge-first into joint opening between bottom of fluted steel deck and top of wall, parallel with joint direction, such that batt sections are compressed min 33 percent in thickness. Compressed batt sections are flush with one surfaces of wall. Adjoining lengths of batt to be tightly butted with butted seams spaced min 48 in. (1.22 m) apart along the length of the joint.
 - ROCK WOOL MANUFACTURING CO Delta Board
 - B. Fill, Void or Cavity Material* Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material sprayed or troweled into the joint to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto wall and steel deck, within joint cavity.
 - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP672 Firestop Spray
 - C. Forming Material Nom 4 pcf (64 kg/m3) mineral wool batt insulation, min 6 in. wide, compressed and firmly packed to completely fill the flutes and the gap between the top of the wall and bottom of the floor or roof as a permanent form. Batt insulation cut to the shape of the fluted steel deck, approx 33 percent larger than the flutes. Pieces compressed and installed cut edge first into the flutes above the top of the wall. Additional pieces of batt insulation, min 6 in. (152 mm) wide, installed edge-first into joint opening between bottom of fluted steel deck and top of wall, parallel with joint direction, such that batt sections are compressed min 33 percent in thickness. Compressed batt sections are flush with one surface of wall. Adjoining lengths of batt to be tightly butted with butted seams spaced min 48 in. (1.22 m) apart along the length of the joint
 - ROCK WOOL MANUFACTURING CO Delta Board
 - C1. Forming Material*-Plugs (Optional-Not Shown) Performed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes. The plugs shall be tight to the mineral wool, Item 3A, and flush with one wall surface. Additional forming material, described in Item 3C, to be used in conjunction with the plugs to fill the gap between the top of the wall and the bottom of the steel floor units. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP777 Speed Plugs
 - D. Fill, Void or Cavity Material* Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material sprayed or troweled on one side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto wall and steel deck on accessible side of wall.
 - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray *Bearing the UL Classification Mark



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