



Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

System No. HW-D-0181

Assembly Rating — 2 Hr

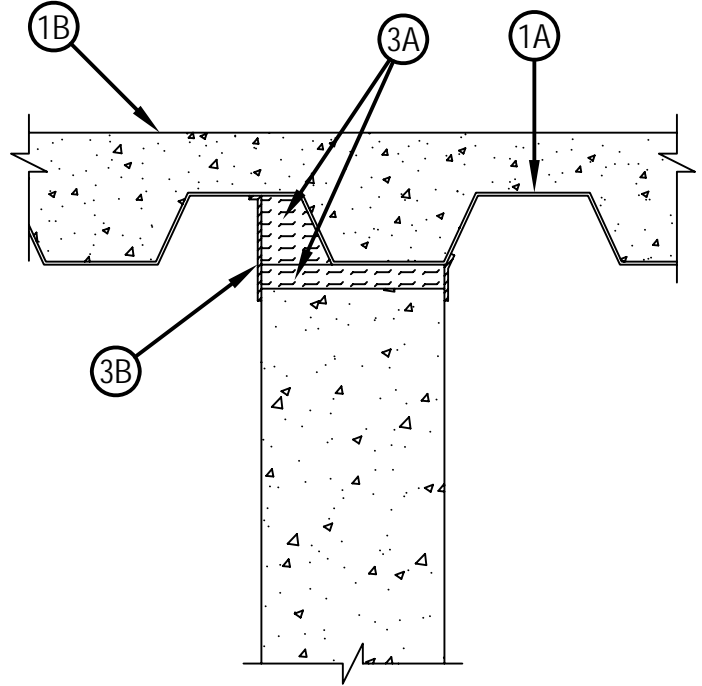
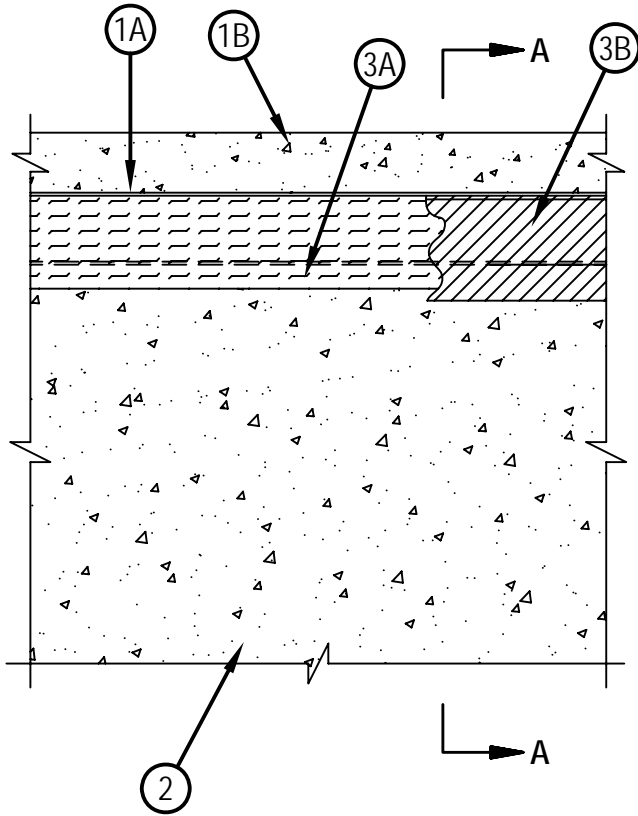
Nominal Joint Width— 1 in.

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

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

Class II and III Movement Capabilities— 12.5% Compression

HWD 0181



SECTION A-A

1. Floor Assembly — The 2 hr fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 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 the top plane of the floor units.
 - C. Spray-Applied Fire Resistive Materials* — (Optional)—(Not Shown)—Prior to the installation of the forming material and fill, void or cavity material (Item 3A, 3B) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (44 mm) thickness of fire resistive material in accordance with the specifications in the individual D700 Series Design.
W R GRACE & CO - CONN — Type MK-6-HY
ISOLATEK INTERNATIONAL — Type 300
2. Wall Assembly — Min 8 in. (203 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Wall shall be installed parallel with the flutes of the steel floor and form units (Item 1A). Wall may also be constructed of any UL Classified 2 hr fire rated Concrete Blocks*. When wall is constructed of concrete blocks, the top course of block shall be filled with concrete, grout or mortar.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.



Hilti Firestop Systems

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3. Joint System — Max separation between bottom of spray-applied fire resistive and top of the wall at time of installation of joint system is 1 in. (25 mm). The joint system is designed to accommodate a max 12.5 percent compression or extension from its installed width. The joint system consists of the following:

A. Forming Material* — Min 4 pcf (64 kg/m³) mineral wool batt insulation cut into strips with a width approx equal to the overall thickness of the wall. Strips compressed 33 percent in thickness and inserted into the gap between the top of the wall and the bottom of the floor units. When the void beneath the protected steel deck is located entirely above the wall, the void shall be completely filled with mineral wool insulation compressed 33 percent in thickness. When void beneath the steel deck is located in part above the wall, that portion of the void above the wall shall be packed with additional strips of mineral wool batt insulation compressed 33 percent in thickness.

ROCK WOOL MANUFACTURING CO — Delta Board

B. Fill, Void or Cavity Material* — Min 1/8 in. (3.2 mm) wet thickness of fill material sprayed or troweled on each 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 both sides of wall. When spray-applied fire resistive material* is applied to the steel floor and form units, the fill material is to overlap the wall a min of 1/2 in. (13 mm) and to overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of the 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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