



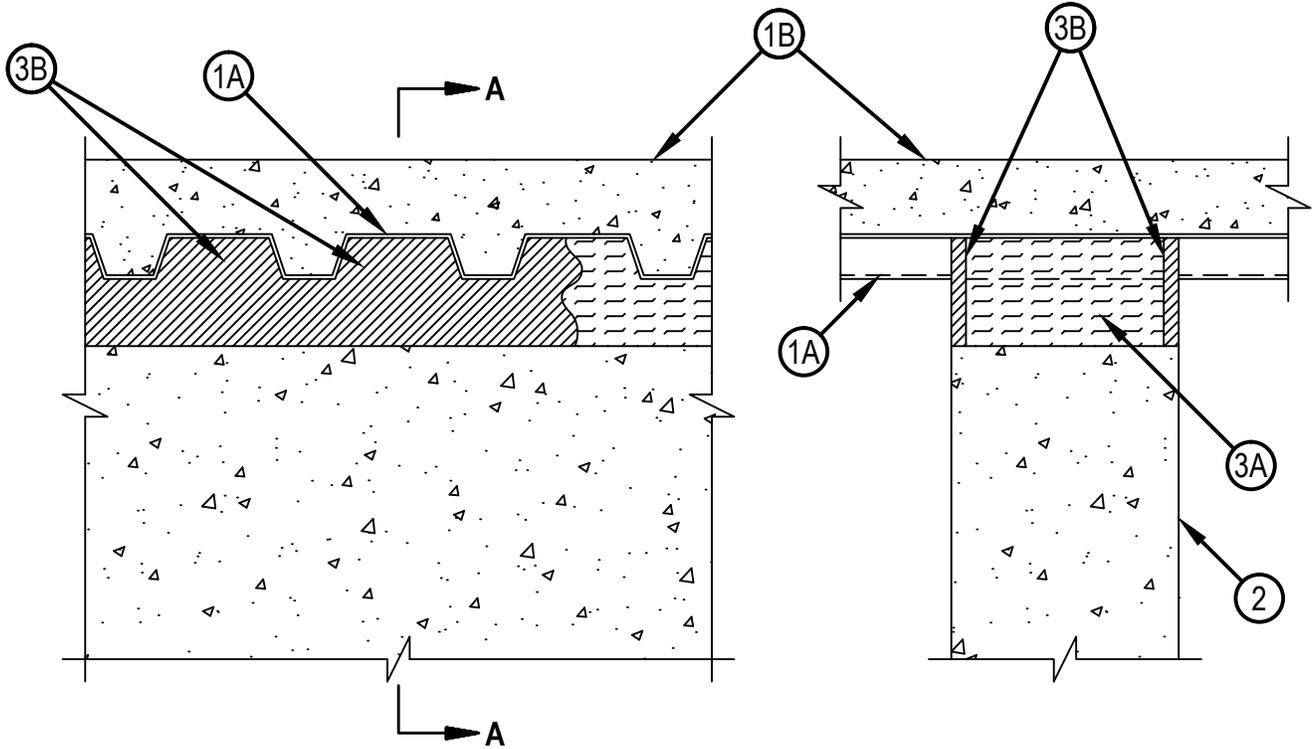
Classified by  
Underwriters Laboratories, Inc.  
to UL 2079 and CAN/ULC-S115

# System No. HW-D-0225

Assembly Rating - 2 Hr

Nominal Joint Width - 2-1/4 in.

Class II Movement Capabilities - 11% Compression or Extension



SECTION A-A



**Hilti Firestop Systems**

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HW D 0225

1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series Floor-Ceiling Design in the 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 concrete, as measured from the top plane of the floor units.
2. Wall Assembly — Min 5 in. thick steel reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of an UL Classified Concrete Blocks\*.  
See Concrete Block (CAZT) category in the Fire Resistance Directory for names of manufactures.
3. Joint System — Max separation between valleys of fluted steel floor unit and top of wall is 2-1/4 in., providing separation at crests of floor unit does not exceed 3-3/4 in. The joint system is designed to accommodate a max 11 percent compression or extension from the nom installed joint width. The joint system consists of a packing material and a fill material between the top of the gypsum board and the bottom of the floor, as follows:
  - A. Forming Material — Sections of min 4 pcf density mineral wool batt insulation inserted between top of wall and bottom of floor, compressed approx 20 percent in thickness beneath each valley. Additional pieces of mineral wool cut to the shape of the flute, stacked to a thickness approx 20 percent greater than the overall thickness of the opening and installed in the flutes above the wall. The forming material shall be recessed 1/2 in. from each side of the wall.  
FIBREX INSULATIONS INC — FBX Safing Insulation
  - A1. Forming Material\* — Plugs (Optional-Not Shown) Performed mineral wool plugs, formed to the shape of the fluted deck, friction fit to completely fill the flutes. The plugs shall be recessed 1/2 in. from both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and bottom of steel deck.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs
  - B. Fill, Void or Cavity Material\* — Sealant Min 1/2 in. thickness of fill material installed on each side of the wall in the flutes of the steel floor units and between the top of the wall and the bottom of the steel floor units, flush with each surface of the wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

\*Bearing the UL Classification Mark



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