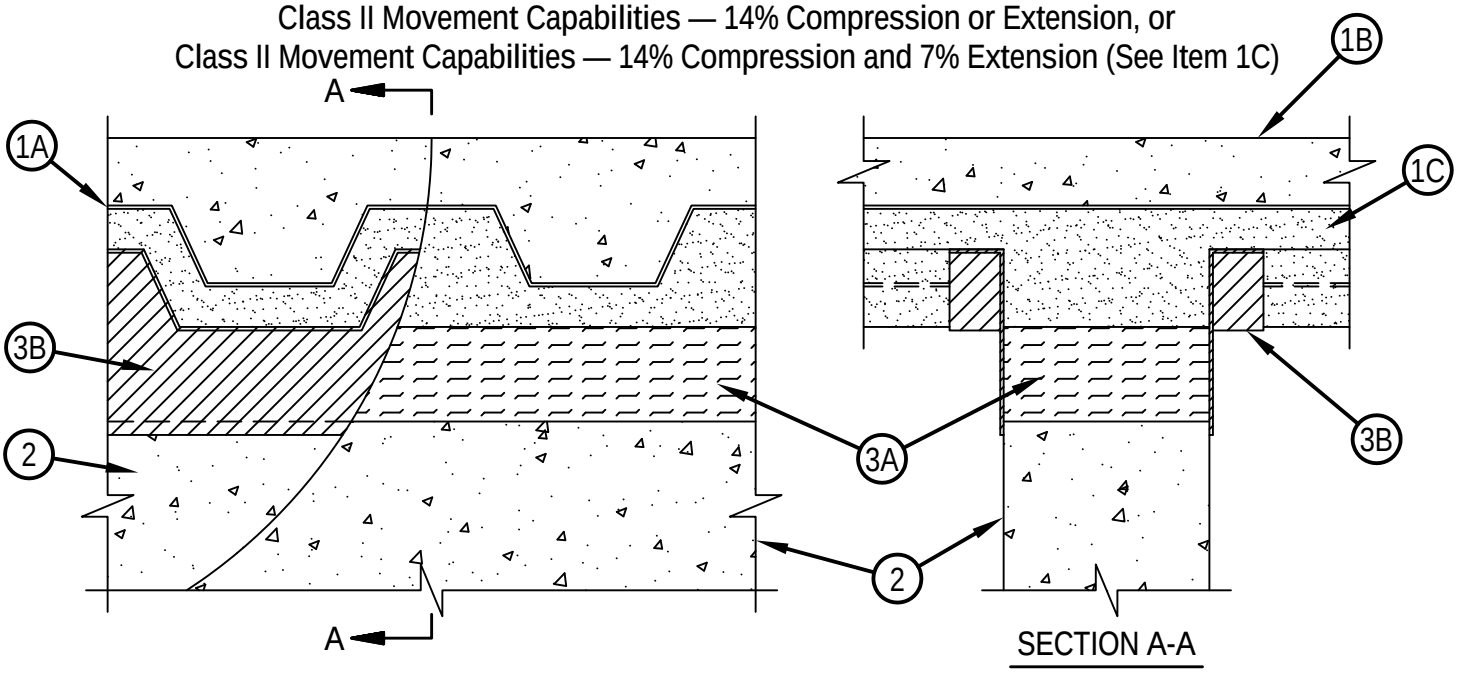
Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

# System No. HW-D-1041

Assembly Rating — 2 Hr
Nominal Joint Width — 3-1/2 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 — 14% Compression or Extension, or
Class II Movement Capabilities — 14% Compression and 7% Extension (See Item 1C)




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 Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction feature:
   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 Material* — Steel floor units to be sprayed with a 1-1/2 in. (38 mm) thickness of Spray-Applied Fire Resistive Material following the contour of floor units and completely filling the flutes above wall assembly.
      W R GRACE & CO - CONN — Type MK-6/HY
      ISOLATEK INTERNATIONAL — Type 300
      When Type 300 spray is used, the movement cycling for the joint is Class II Movement Capabilities with 14% Compression and 7% Extension.
2. Wall Assembly — Min 5 in. (127 mm) thick reinforced concrete 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 the spray applied fire resistive material and top of concrete wall assembly at time of installation is 3-1/2 in. (89 mm). The joint system is designated to accommodate a max 14 percent compression or extension from its installed width. The joint system shall consist of the following:
   A. Forming Material* — Min 4 pcf (64 kg/m3) mineral wool batt insulation shall be cut into strips to fill the gap between the top of the wall and bottom of the floor units. The mineral wool strips, equal in width to wall thickness, are compressed 50 percent in thickness and installed edge first into the gap between the top of the wall and bottom of the spray applied fire resistive material on the floor units.
      FIBREX INSULATIONS INC — FBX Safing Insulation
   B. Fill, Void or Cavity Material*- Sealant — Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material sprayed of troweled on each side of wall to completely cover mineral wool forming material and spray applied fire resistive material in flutes and to overlap 1/2 in. (13 mm) onto wall and to overlap 2 in. (51 mm) onto spray-applied fire resistive material. on the steel floor units.
      HILTI CONSTRUCTION CHEMICALS, DIV OF
      HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

*Bearing the UL Classification Mark