



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

System No. HW-D-0440

Assembly Rating — 2 Hr

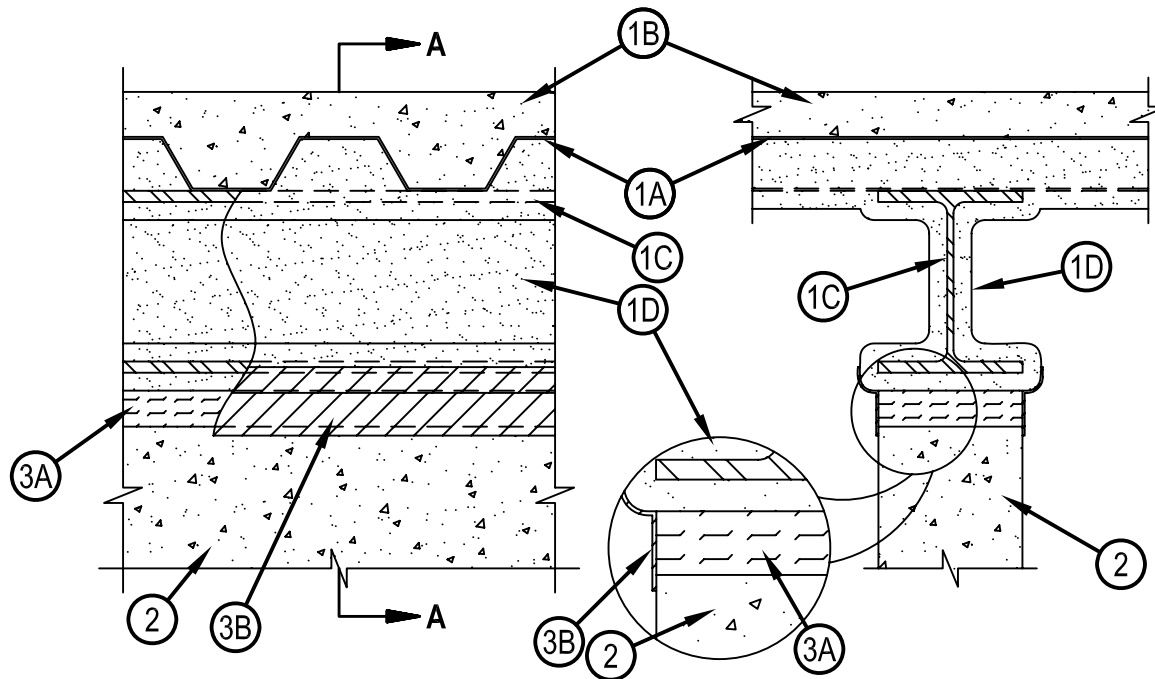
Nominal Joint Width — 2 In.

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

HWD 0440



SECTION A-A

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 D700 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Steel Floor And Floor 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. Structural Steel Support — Steel beam, as specified in the individual D700 Series Floor-Ceiling Design, used to support steel floor units. Steel beam centered over and parallel with wall assembly. Structural steel support may be parallel or perpendicular to steel floor units.
 - D. Spray-Applied Fire Resistive Material* — Steel floor units and structural steel support to be sprayed with the thickness of material specified in the individual D700 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam when beam runs perpendicular to steel floor units. Additional material shall be applied to the web of the steel beam on each side of the wall. The thickness of material applied to each side of the steel beam web shall be 1-3/8 in. (35 mm).
W R GRACE & CO - CONN — Type MK-6/HY
 - D1. Spray-Applied Fire Resistive Material* — Steel floor units and structural steel support to be sprayed with the min thickness of material specified in the individual D700 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam when beam runs perpendicular to steel floor units. Additional material shall be applied to the web of the steel beam on each side of the wall. The thickness of material applied to each side of the steel beam web shall be 1-1/2 in. (38 mm).
ISOLATEK INTERNATIONAL — Type 300



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
June 07, 2010



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

System No. HW-D-0440

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

2. Wall Assembly — Min 8 in. (203 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Block*. Concrete wall to be centered beneath and parallel with bottom flange of steel beam.
See Concrete Block (CAZT) category in Fire Resistance Directory for names of manufacturers
3. Joint System — Max separation between spray applied fire resistive material on bottom of structural support member and top of concrete 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 it's installed width as measured between bottom plane of protected steel beam and top of concrete wall. The joint system shall consist of forming and fill materials as follows:
 - A. Forming Material* — Min 8 in. (203 mm) wide section of nom 4 pcf (64 kg/m³) mineral wool batt insulation compressed 50 percent in thickness and installed cut edge first to completely fill the gap above the top of the concrete wall. The forming material shall be installed flush with both surfaces of wall.
THERMAFIBER INC — Type SAF
 - 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 or troweled on each side of wall to completely cover mineral wool forming material and to overlap min 1/2 in. (13 mm) onto concrete wall and min 2 in. (51 mm) onto spray-applied fire resistive material.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

*Bearing the UL Classification Mark

HW-D-0440



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
June 07, 2010

Page: 2 of 2