

System No. HW-D-0253

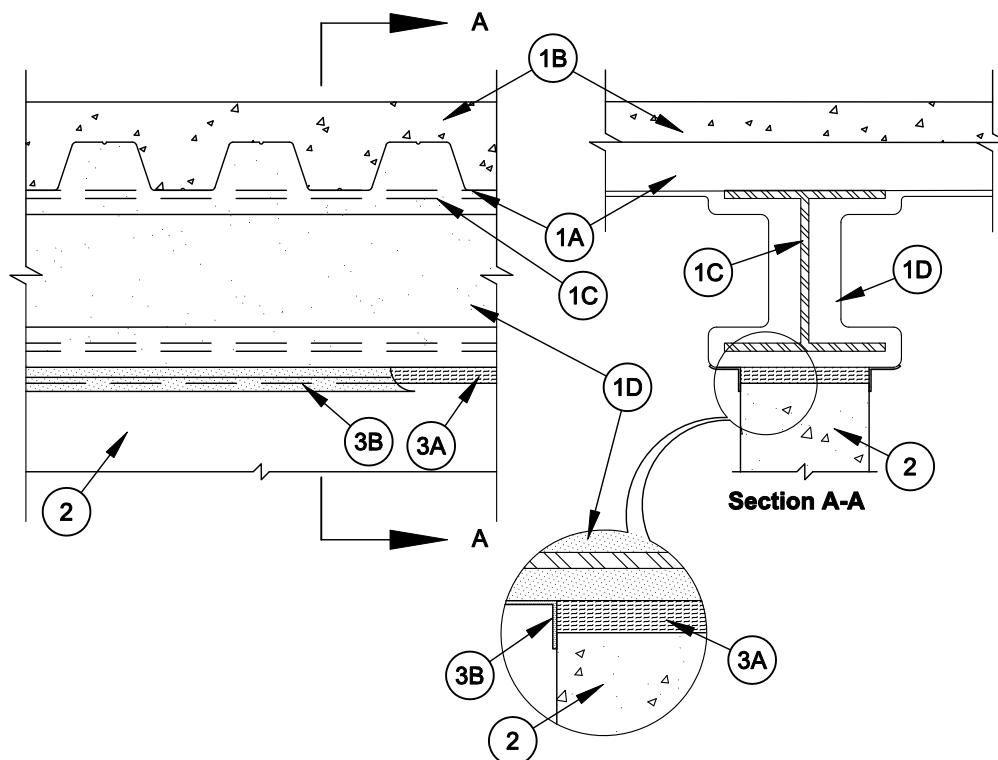
Assembly Ratings - 2 and 3 Hr (See Item 1)

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 Movement Capabilities - 19% Compression or Extension



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, D800, or D900 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, D800, or D900 Series Floor-Ceiling Design, used to support steel floor units. Steel beam centered over and parallel with wall assembly.
 - 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, D800, or D900 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. Additional material shall be applied to the web of the steel beam on each side of the wall. **For a 2 hr Assembly Rating, the thickness of material applied to each side of the steel beam web shall be 1-3/8 in. (35 mm). For a 3 hr Assembly Rating, the thickness of material applied to each side of the steel beam web shall be 1-9/16 in. (40 mm).**
- D1. **Spray-Applied Fire Resistive Material*** - After installation of the steel attachment clips (Item 2B), steel floor units and structural steel support to be sprayed with the min thickness of material specified in the individual D700, D800, or D900 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. Additional material shall be applied to the web of the steel beam on each side of the wall. **For a 2 hr Assembly Rating, the thickness of material applied to each side of the steel beam web shall be 1-1/2 in. (38 mm). For a 3 hr Assembly Rating, the thickness of material applied to each side of the steel beam web shall be 3 in. (76 mm).**

W R GRACE & CO - CONN - Type MK-6/HY

ISOLATEK INTERNATIONAL - Type 300, Type II



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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 1 in. (25 mm). The joint system is designed to accommodate a max 19 percent compression or extension from its 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.

FIBREX INSULATIONS INC - FBX Safing Insulation

IIG MINWOOL L L C - MinWool-1200 Safing

ROCK WOOL MANUFACTURING CO - Delta Board

ROCKWOOL MALAYSIA SDN.BHD - SAFE

ROXUL INC - SAFE

THERMAFIBER INC - Type SAF

- B. **Fill, Void or Cavity Material* - Sealant** - Min 1/8 in. (3.2 mm) wet thickness or 1/16 in. (1.6 mm) dry thickness of fill material spray applied over the forming material on each side of the wall. Fill material to overlap min 1/2 in. (13 mm) onto concrete and min 2 in. (51 mm) onto the spray applied material (Item 1D) on the steel beam on both sides of the wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal AS200 Elastomeric Spray

*Bearing the UL Classification Mark



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