XHEZC.HW75
Firestop Systems

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Firestop Systems

See General Information for Firestop Systems

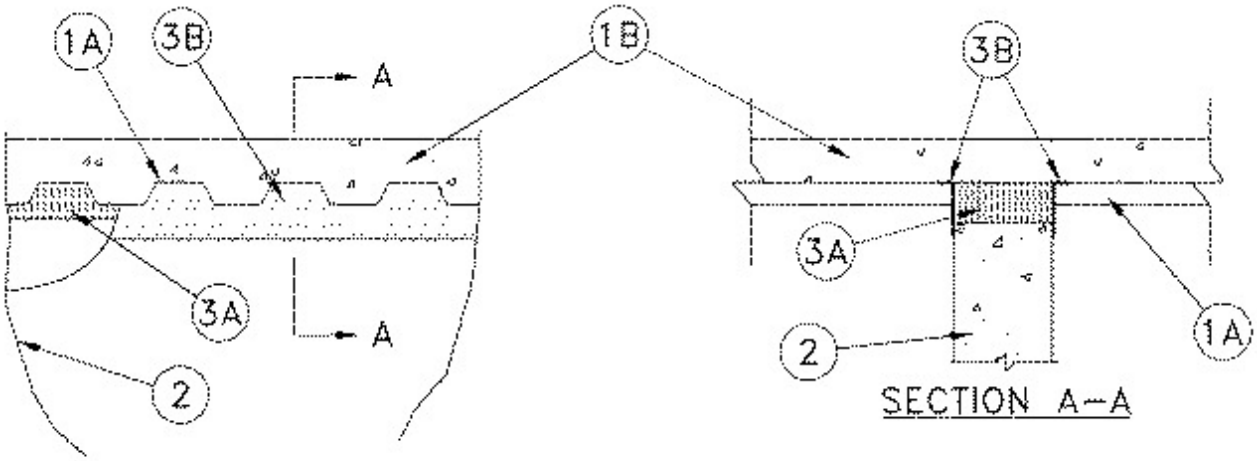
System No. HW75

October 11, 2011

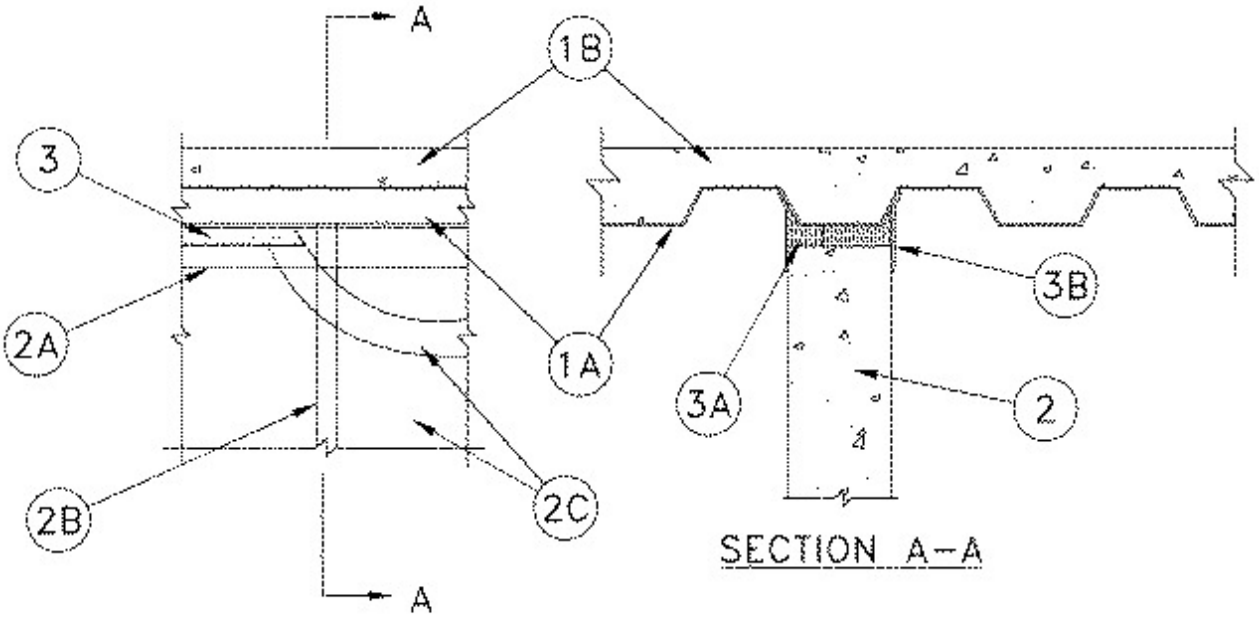
F, FT, FH and FTH Ratings — 2 and 3 h (See item 3)

Nominal Joint Width — 25 and 51 mm (See item 3)

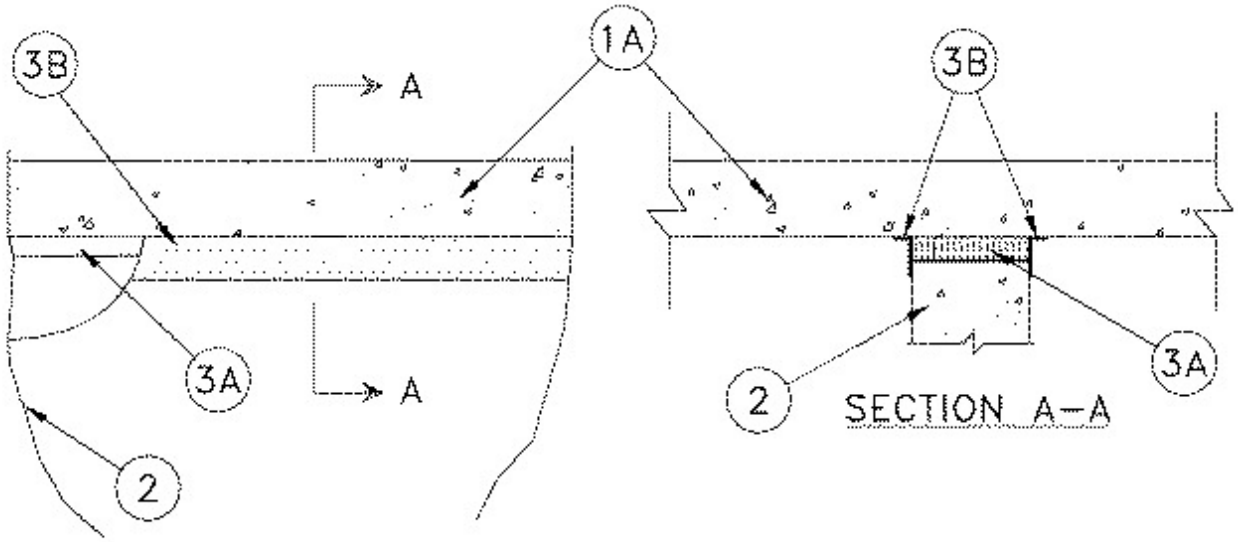
Movement Capabilities — 25% and 18% Compression or Extension (based on 500 cycles at a Min of 10 cycles/minute) (See item 3)



CONFIGURATION A



CONFIGURATION B



CONFIGURATION C

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 Floor-Ceiling Design in the ULC Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Form Units —** Maximum 76 mm deep galvanized steel fluted units.

B. **Concrete —** Minimum 64 mm thick reinforced concrete as measured from the top plane of the floor units.

1A. **Floor Assembly —** As an alternate to Item 1, minimum 114 mm thick low-density or normal-density (1600-2400 kg/m^3) structural concrete.

2. **Wall Assembly —** Minimum 155 mm thick steel reinforced low-density or normal-density (1600-2400 kg/m^3) structural concrete. Wall to be perpendicular to (Joint Configuration A), or parallel to and centred under the valleys (Joint Configuration B) of the steel floor units. Wall may also be constructed of 200 mm thick concrete block.

3. **Joint System —** Maximum separation between bottom of floor and top of wall is 51 mm. The joint system is designed to accommodate a maximum 18% compression or extension from its installed width. When the joint width is 25 mm maximum, joint can accommodate a maximum 25% compression from its installed width. F, FT, FH and FTH Rating for a joint system designed for maximum 18% movement is 3 h. F, FT, FH and FTH Rating for a joint system designed for maximum 25% movement is 2 h. The joint system consists of Firestop System Component materials as follows:

Joint Configuration A

- A. **Firestop System Components —** (XHJZC) - Minimum 102 mm thick 64 kg/m^3 density mineral wool batt insulation (Type Safe) cut to fit the general shape of the joint. Insulation cut to a width 100% greater than joint width. Insulation compressed 50% in width and inserted into opening between top of wall and bottom of steel deck, flush with one surface of wall. Additional piece of 50 mm thick, minimum 64 kg/m^3 density mineral wool batt insulation is similarly cut, compressed 50% in width and inserted within joint, flush with opposite face of wall.

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- B. **Firestop System Components —** (XHJZC). Minimum 3.2 mm wet thickness of A/D FIREBARRIER Spray Acrylic material sprayed or brushed on each side of the wall to completely cover mineral wool and overlap a minimum of 13 mm onto wall and steel deck.

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Joint Configuration B

- A. **Firestop System Components —** (XHJZC). Minimum 102 mm thick, 64 kg/m^3 density mineral wool batt insulation (Type Safe) cut to a width 100% greater than joint width. Insulation compressed 50% and inserted into opening between the top of the wall and the steel deck and recessed 50 mm. from one surface of wall. Additional piece of minimum 64 kg/m^3 mineral wool batt insulation having a thickness of 50 mm is cut to a width 100% greater than joint width, compressed 50% and inserted between the top of the wall and the steel deck, flush with opposite side of the wall.

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- B. **Firestop System Components —** (XHJZC). Minimum 3.2 mm wet thickness of A/D FIREBARRIER Spray Acrylic material sprayed or brushed on each side of the wall to completely cover mineral wool and overlap a minimum of 13 mm onto wall and steel deck.

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Joint Configuration C

- A. **Firestop System Components —** (XHJZC). Minimum 102 mm thick, 64 kg/m^3 density mineral wool batt insulation (Type Safe) cut to a width 100% greater than joint width, compressed 50% in width and inserted into opening between the top of the wall and the underside of floor, flush with one surface of wall. Additional piece of 50 mm thick, minimum 64 kg/m^3 mineral wool batt insulation similarly cut, compressed 50% in width and inserted between the top of the wall and the underside of floor, flush with opposite wall surface.

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- B. **Firestop System Components —** (XHJZC). Minimum 3.2 mm wet. Thickness of A/D FIREBARRIER Spray Acrylic material sprayed or brushed on each side of the wall to completely cover mineral wool and overlap a minimum of 13 mm onto wall and floor.

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