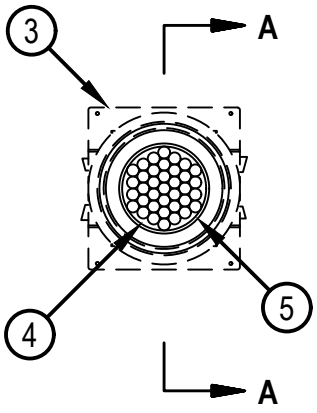
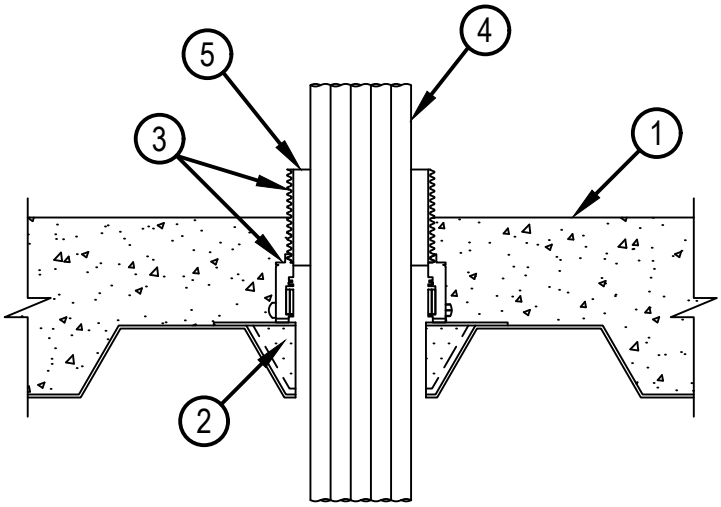
CANADA ONLY

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

System No. F-A-3073

F-Rating - 3 Hr
FT-Rating - 0 Hr
FH-Rating - 0 Hr
FTH-Rating - 0 Hr





SECTION A-A

System No. F-A-3073

1. Floor Assembly — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
   A. Concrete — Min 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m3 or 100-150 pcf) concrete.
   B. Steel Floor and Form Units* — Max 76 mm (3 in.) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. Firestop Device* — Cast in place firestop device platform installed prior to concrete placement in floor assembly. The CFS-CID MD PLT firestop device platform is screwed to the fluted deck with one fastener at each corner in accordance with manufacturer installation instructions. The firestop device platform is sized for nominal 51 and 76 mm (2 and 3 in.) deep fluted decks.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-CID MD PLT W2" and W3"

3. Firestop Device* — Cast in place firestop device installed over firestop device platform (Item 2) prior to concrete placement in floor assembly. The CFS-CID MD Firestop Device is set onto and screwed to the device platform in accordance with manufacturer installation instructions. The firestop device is sized for the diameter of the through penetrant and for the height of the concrete topping over the fluted deck. The device shall be used with Hilti provided extension to accommodate the installation. Device is to be installed with a max 51 mm (2 in.) projection above top surface of the concrete.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-CID MD M 2"/2.5", 3"/2.5" and 4"/2.5"; CFS-CID MD M 2"/4", 3"/4" and 4"/4"; CFS-CID MD P 2"/2.5", 3"/2.5" and 4"/2.5"; CFS-CID MD P 2"/4", 3"/4" and 4"/4", CFS-CID MD PX 2"/2.5", 3"/2.5" and 4"/2.5" and CFS-CID MD PX 2"/4", 3"/4" and 4"/4"

4. Cables — Cables to be tightly bundled and rigidly supported on both sides of the assembly. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 1/C 500 kcmil (or smaller) copper conductor cable with polyvinyl chloride (PVC) insulation and jacket.
   B. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
   C. Max 300 pair No. 24 AWG telephone cable with PVC insulation and jacket.
   D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 13 mm (1/2 in.).
   E. Max 3/C No. 12 AWG with ground with polyvinyl chloride jacketed steel clad Type MC cable.
   The firestop device and max cable bundle diameter shall be sized as follows:

Nom. Pipe Diameter*	Firestop Device
Min. 25 mm (1 in.) to Max 51 mm (2 in.)	CFS-CID MD M 2", CFS-CID MD P(X) 2"
76 mm (3 in.)	CFS-CID MD M 3", CFS-CID MD P(X) 3"
Min. 76 mm (3 in.) to Max 114 mm (4-1/2 in.)	CFS-CID MD P(X) 4"
Min. 76 mm (3 in.) to Max 102 mm (4 in.)	CFS-CID MD M 4", CFS-CID MD P(X) 4"

5. Fill, Void or Cavity Material* — Putty — Min 3 mm (1/8 in.) thickness of fill material applied at top surface of device overlapping onto cables and device or floor.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 618 Firestop Putty Stick or CP 617 Putty Pad

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.