



Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. F-A-2420

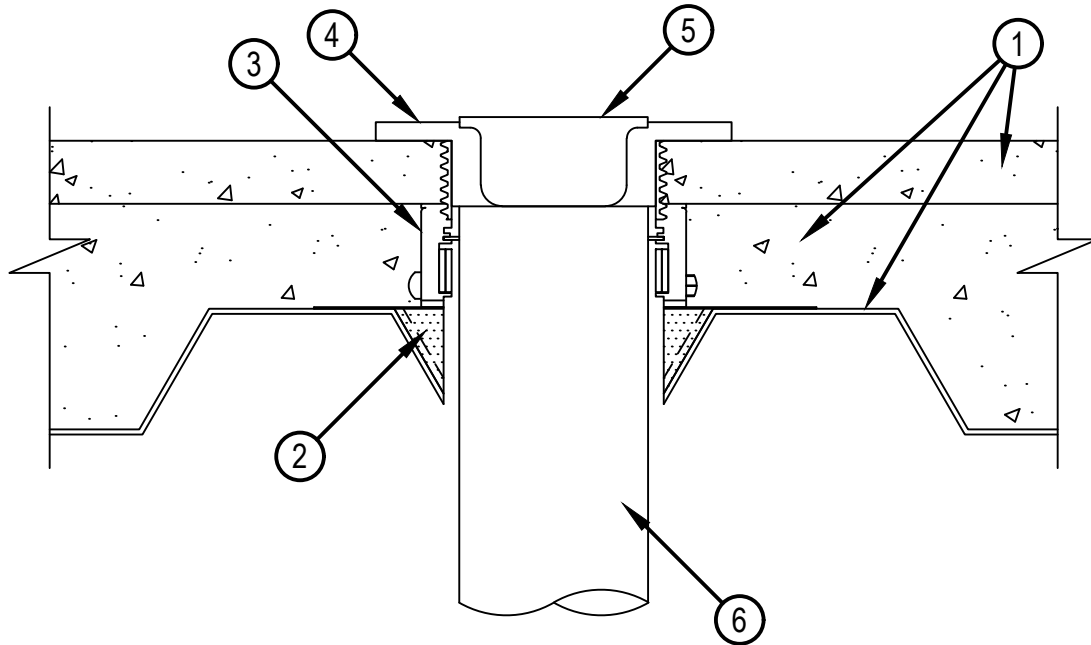
F Rating — 2 Hr

T Rating — 2 Hr

L Rating At Ambient — Less Than 1 CFM/ft²

L Rating At 400 F — Less Than 1 CFM/ft²

FA 2420



1. Floor Assembly — The fire rated concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D700 or D900 Series designs in the UL Fire Resistance Directory and as summarized below:

A. Concrete — Min 4 in. (102 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.

1A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete, with a min 1-1/2 in. (32 mm) thickness of concrete or grout topping extending min 24 in. (610 mm) beyond periphery of drain flange.

B. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.

C. Spray-Applied Fire Resistive Material — (Optional. Not Shown.) - Steel floor units may be sprayed with the type and thickness of fire resistive material indicated in the individual D700 Series Design.

UNITED STATES MINERAL PRODUCTS CO, DBA ISOLATEK INTERNATIONAL — Type 300

GCP APPLIED TECHNOLOGIES INC — MK-6/HY+

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 2 and 3 in. (51 and 76 mm) deep fluted decks.

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

2A. As an alternative to Item 2 (Not Shown), for CFS-CID MD P only, HILTI Metal Deck Adapter may be installed in accordance with the manufacturer's instructions. When Metal Deck Adapter is used CFS-CID MD PLT is not to be installed.



Hilti Firestop Systems

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3. Firestop Device* — Cast in place firestop device installed over firestop device platform prior to concrete placement in floor assembly. The CFS-CID MD Firestop Device is set onto and screwed to the firestop device platform (Item 2) 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 2.5" height devices are intended for a 2.5 in. (64 mm) concrete topping over the fluted deck and shall be used with the Hilti provided extension. The 4" height devices are intended for concrete toppings greater than 2.5 in. (64 mm) thick. The device extension shall be cut to project min 1/2 in. (13 mm) above the top surface of the firestop device such that it extends to the underside of the drain body flange.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 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. Closet Flange — Flanged PVC body drain sized to accommodate drainpipe. Flange of drain shall be embedded within the concrete floor (Item 1A), concrete/grout topping (Item 1A1) or secured to the top of the concrete floor with concrete screws. PVC drain body inserted into firestop device with the drain flange resting on the top edge of device or device extension prior to pour of concrete floor or installation of topping material. PVC drain body cemented to drain piping (Item 6).
5. Floor Drain — Sized to fit within closet flange (Item 4) may be supplied with polished brass or chromed steel shower drain or floor drain strainer. Drain body inserted into closet flange with the drain flange resting on the top edge of closet flange prior to pouring of concrete floor or installation of topping material. PVC drain body to be cemented to closet flange. (Item 4).
6. Drain Piping — Nom 4 in. (102 mm) diam Schedule 40 solid or cellular core polyvinyl chloride (PVC) drain piping and fittings for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.

Nom Pipe Diameter++	Firestop Device
1-1/2 in. to 2 in. (38 to 51 mm)	CFS-CID MD P(X) 2"
3 in. (76 mm)	CFS-CID MD P(X) 4"
3 in. (76 mm)	CFS-CID MD P(X) 3"
4 in. (102 mm)	CFS-CID MD P(X) 4"

++ L Rating applies only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.)

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