

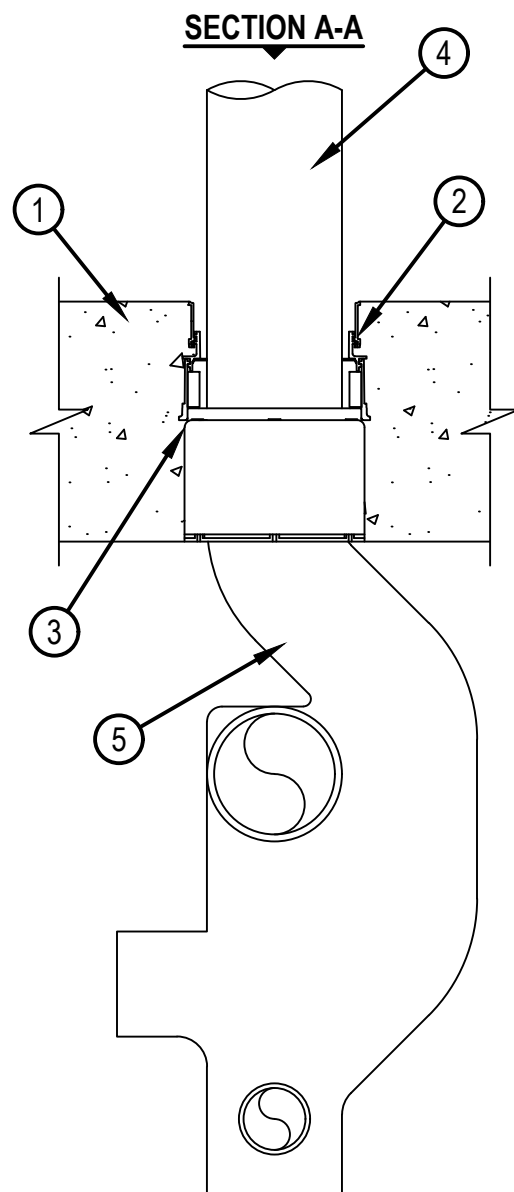
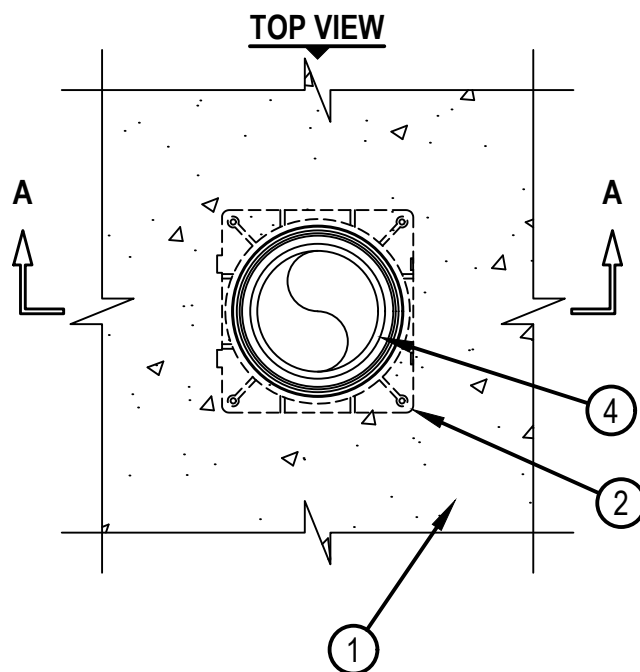


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. F-B-1041

FB 1041

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 1/2 Hr	FT Rating — 1/2 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft (See Table Below)	FH Rating — 3 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft (See Table Below)	FTH Rating — 1/2 Hr
W RATING – CLASS I (See Table below)**	L Rating At Ambient — Less Than 1 CFM/sq ft (See Table Below)
	L Rating At 400 F — Less Than 1 CFM/sq ft (See Table Below)



1. Floor Assembly — Min 5 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. When aerator adaptor for CFS-CID U 4 in. device is used, min floor thickness is 6-1/2 in. (165 mm). When aerator adaptor for CFS-CID U 2", CFS-CID U 2" CA, CFS-CID U 3 in. device is used, min floor thickness is 5 in. (127 mm).
2. Firestop Device* — Cast in place firestop device with optional accessories including sleeve extension sized to specific diameter of through-penetrant and permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions with a max 2 in. (51 mm) projection above the top surface of the concrete.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-CID U 2", CFS-CID U 2" CA, CFS-CID U 3", CFS-CID U 4"
3. Aerator Adapter — Nom 3-15/16 in. (99mm) (CFS-CID U 4" device) and nom 2-5/8 in. (67 mm) deep (CFS-CID U 2", CFS-CID U 2" CA, CFS-CID U 3" device), cast-in-place adapter attached to the device in accordance with the manufacturer's installation instructions, and fastened to form prior to placement of the concrete.
4. Through Penetrants — One metallic pipe to be installed concentrically within the firestop device. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe may be used:
 - A. Steel Pipe — Nom 4 in. (102 mm) diam or smaller Schedule 40 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 4 in. (102 mm) diam or smaller cast or ductile iron pipe.

The firestop device and metallic penetrant shall be sized as follows:

Nom Pipe Diameter	Firestop Device
1-1/4 to 2 in. (32 to 51 mm)	CFS-CID U 2", CFS-CID U 2" CA
2- to 3 in. (51 to 76 mm)	CFS-CID U 3"
3 to 4 in. (76 to 102 mm)	CFS-CID U 4"

*When W-rating is required – When nominal pipe diameter matches device size, pipe may be installed in any orientation. When nominal pipe diameter is smaller than device size, pipe must be installed from the bottom

5. Aerator Fitting — (Optional) Nom 4 in. (102 mm) diam (or smaller) cast iron aerator fitting. Fitting shall not penetrate the firestop device.

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