



Classified by
Underwriters Laboratories, Inc.
to UL 1479

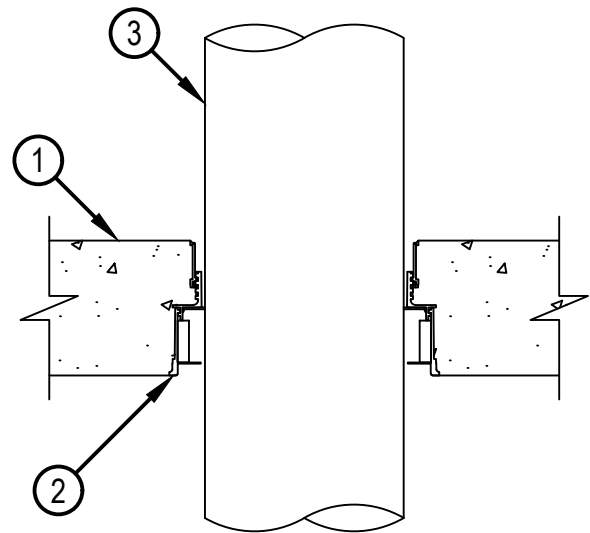
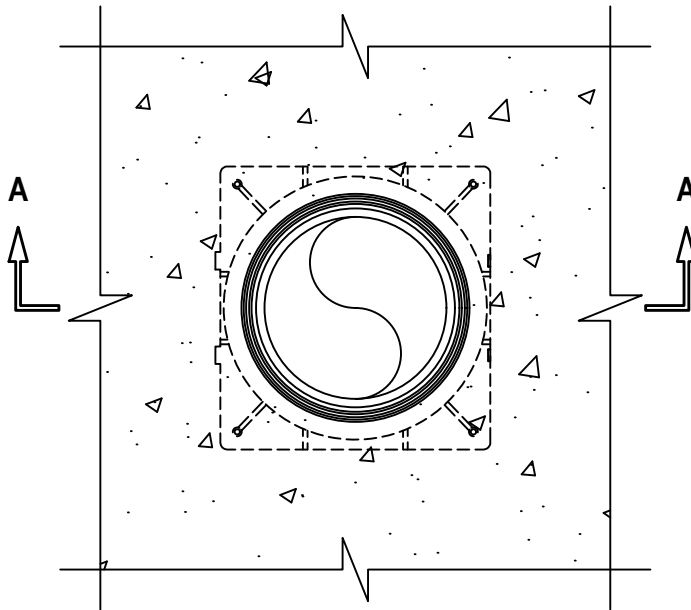
System No. F-A-2412

FA 2412

ANSI/UL1479 (ASTM E814)
F Ratings — 2 and 3 Hr (See Item 3)
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 3)
W Rating — Class 1 (See Item 3)

TOP VIEW

SECTION A-A



1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
2. Firestop Device* — Cast in place firestop device, with optional accessories including sleeve extension, permanently embedded during concrete placement or grouted in concrete 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", CFS-CID U 6"
3. Through Penetrants — One nonmetallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - A. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - B. Fire Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

The L and W Ratings of the firestop system are dependent upon type and nom diam of the penetrant and the firestop device size as shown below:

Penetrant	Nom Pipe Diameter	Device Size	W-Rating**	L-Rating	F Rating (Hr)
3A	1-1/4 (32 mm)	CFS-CID U 2", CFS-CID U 2" CA	Yes	Yes	2
3A	1-1/2 to 2 in. (38 to 51 mm))	CFS-CID U 2", CFS-CID U 2" CA	Yes	Yes	3
3A and 3B	1-1/2 to 2 in. (32 to 51 mm)	CFS-CID U 2", CFS-CID U 2" CA	Yes	Yes	3
3A and 3B	2 to 3 in. (51 to 76 mm)	CFS-CID U 3"	Yes	Yes	3
3A	3 to 4 in. (76 to 102 mm)	CFS-CID U 4"	Yes	Yes	3
3A	6 in (152 mm)	CFS-CID U 6"	Yes	Yes	3

** 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.

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

