

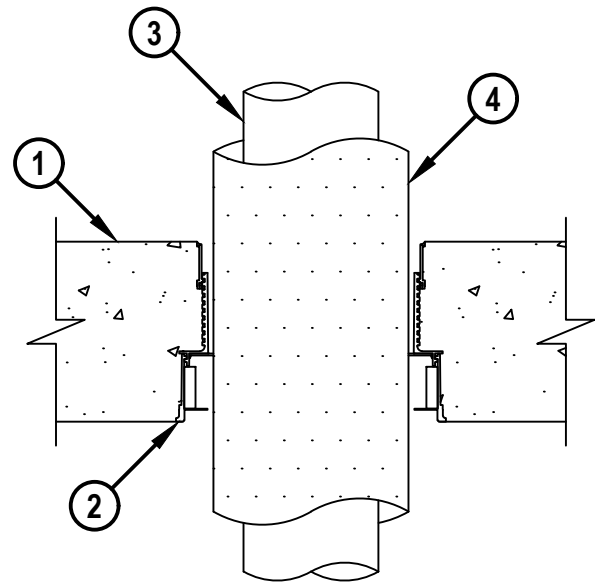
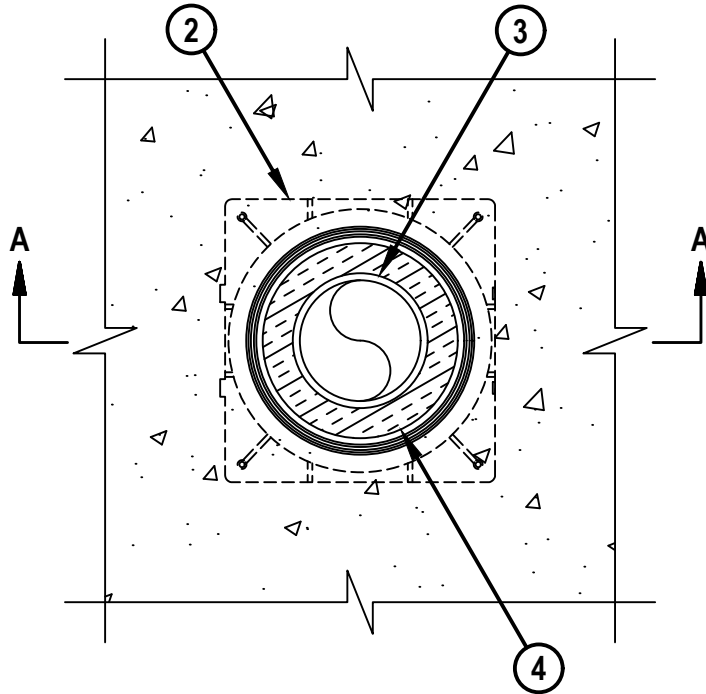


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. F-A-5083

FA 5083

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Ratings — 0, 1/2, 3/4, 1, 3 Hr (See Item 3)	FT Ratings — 1/2, 3/4, 1, 3 Hr (See Item 3)
L Rating at Ambient — See Item 3	FH Rating — 3 Hr
L Rating at 400°F — See Item 3	FTH Ratings — 1/2, 3/4, 1, 3 Hr (See Item 3)
	L Rating at Ambient — See Item 3
	L Rating at 204°C — See Item 3



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 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", CFS-CID U 6"
3. Through Penetrants — One metallic pipe or tubing to be installed within the firestop device. Pipe or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe or tubing may be used:
 - A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
 - C. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - D. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

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



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Nom Pipe Diameter*	Nom Pipe Cover-in. (mm)	Firestop	T (FT, FTH) Rating-Hr	L Rating at Ambient CFM/sq ft (L/s/m ²)	L Rating at 400F (204°C) CFM/sq ft (L/s/m ²)
1/2 in. (13 mm)	1 (25)	CFS-CID U 2" CFS-CID U 2" CA	3	Less Than 1(Less Than 5.1)	Less Than 1(Less Than 5.1)
1 in (25 mm)	3/4 (19)	CFS-CID U 3"	1/2	Less Than 1(Less Than 5.1)	Less Than 1(Less Than 5.1)
1 in (25 mm)	1 (25)	CFS-CID U 3"	3/4	Less Than 1(Less Than 5.1)	Less Than 1(Less Than 5.1)
1 in (25 mm)	1 (25)	CFS-CID U 4"	3/4	Less Than 1(Less Than 5.1)	Less Than 1(Less Than 5.1)
2 in. (51 mm)	3/4 (19) or 1 (25)	CFS-CID U 4"	1	Less Than 1(Less Than 5.1)	Less Than 1(Less Than 5.1)
2-1/2 in. (63.5 mm)	3/4 (19) or 1 (25)	CFS-CID U 4"	3/4	Less Than 1(Less Than 5.1)	Less Than 1(Less Than 5.1)
4 in. (102 mm)	3/4 (19) or 1 (25)	CFS-CID U 6"	3/4	Less Than 1(Less Than 5.1)	Less Than 1(Less Than 5.1)

* When pipe diameter smaller than shown in above table is used the insulated pipe shall be installed in conjunction with Item 5 and the T, FT AND FTH Ratings are 0 hr.

4. Tube Insulation - Plastic+ — Nom 3/4 or 1 in. (19 or 25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

See Plastics+ (QMFZ2) Category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.

5. Packing Material — (Not Shown) When pipe sizes are less than those shown in the table in Item 3, min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool insulation shall be firmly packed to the fullest extent possible within the device flush with top surface of device.

6. Fill, Void or Cavity Material*- Sealant — (optional) Min ¼ in (6mm) thickness of sealant applied within the annulus, flush with the top surface of the floor.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CFS-S SIL GG or CFS-S SIL SL Sealant

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



Hilti Firestop Systems

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