

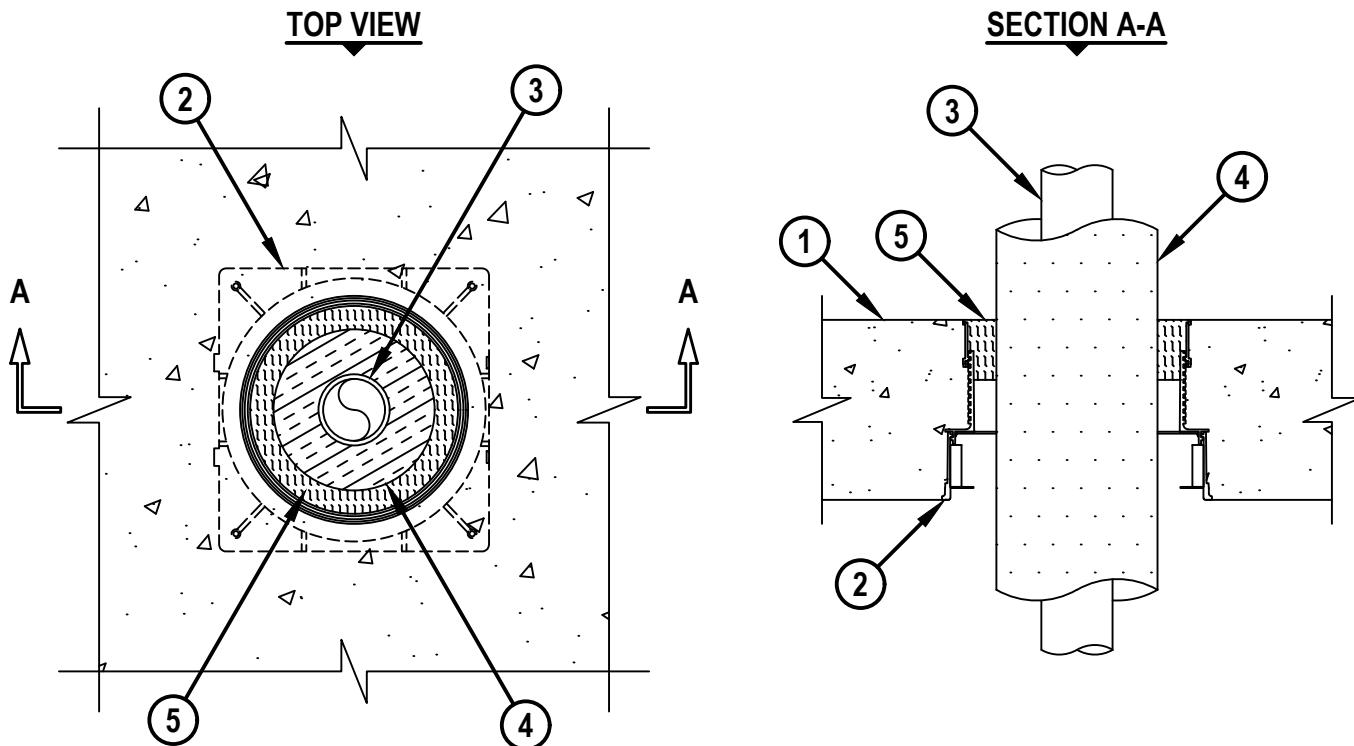


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CAN/ULC-S115

## System No. F-A-5085

FA 5085

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 2 Hr	FT Rating — 2 Hr
	FH Rating — 2 Hr
	FTH Rating — 2 Hr



**Hilti Firestop Systems**

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March 15, 2024

# System No. F-A-5085

FA 5085

1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete.
2. Firestop Device\* — Cast in place firestop device with optional accessories including sleeve extensions permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions. Device installed flush with the top surface of the concrete floor.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 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 2 in. (51 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - B. Iron Pipe — Nom 2 in. (51 mm) diam (or smaller) cast or ductile iron pipe
  - C. Copper Tubing — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
  - D. Copper Pipe — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

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

Nom Pipe Diameter, in. (mm)	Pipe Insulation (Item 4)	Firestop Device	Packing Material (Item 5)
1/2 (13)	1-1/2 in. (38 mm)	CFS-CID U 4"	Yes
1 (25)	1-1/2 in. (38 mm)	CFS-CID U 4"	No
1-1/2 (38)	1-1/2 in. (38 mm)	CFS-CID U 6"	Yes
2 (51)	1-1/2 in. (38 mm)	CFS-CID U 6"	No

4. Pipe Covering\* — Cellular Glass Insulation — Nom 1-1/2 in. (38 mm) thick cellular glass units sized to the outside diam of the pipe and supplied in nom 24 in. (610 mm) long half sections or nom 18 in. (457 mm) long segments.
- 4A. Sheathing Material\* — Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 4) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or butt tape.  
See Sheathing Materials (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
5. Packing Material — When specified in the Table in Item 3, a min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation shall be firmly packed into the top of device, flush with the top of the device.
6. Fill, Void or Cavity Material\* — Sealant — (optional, not shown) Min 1/4 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.