

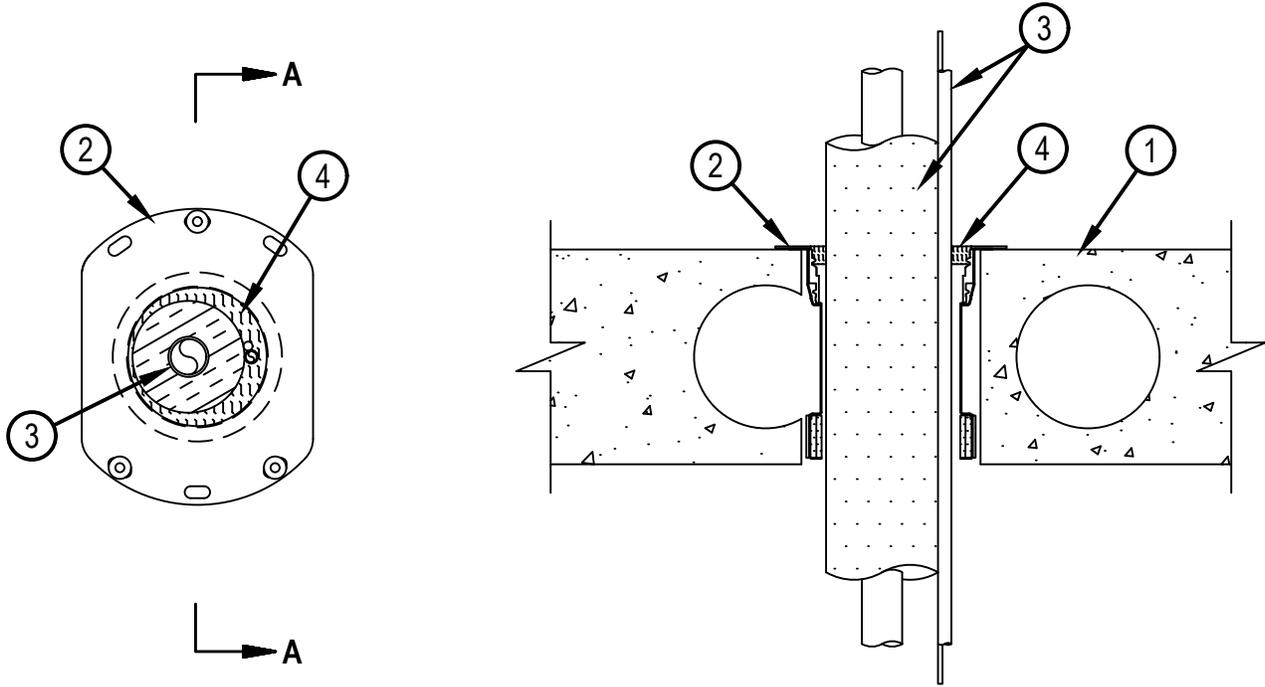


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. F-B-8010

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 1 Hr	FT Rating — 1 Hr
	FH Rating — 2 Hr
	FTH Rating — 1 Hr

FB 8010



SECTION A-A

1. Floor Assembly — Min 6 in. (152 mm) to max 12-1/2 in. (318 mm) thick UL Classified hollow core Precast Concrete Units*. Diam of opening is 5 in. (127 mm).

See Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. Firestop Device* — Drop-in firestop device installed in core-drilled or sleeved opening in concrete floor assembly in accordance with accompanying installation instructions. The firestop device flange should be secured to the top surface of the floor with three 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or screw anchors (installed in a triangular fashion through holes provided). As alternates to the anchors specified above, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II+ concrete screw anchor, Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (45 mm) long KWIK-BOLT 3 steel expansion anchor or Hilti 1/4 in. (6 mm) by 3/4 in. (19 mm) long Metal HIT Anchor may be used. In addition, for nom 2 in. (51 mm), 3 in. (76 mm) and 4 in. (102 mm) firestop devices, four 11/16 in. (18 mm) long Hilti X-GH P18 MX steel fasteners may be installed through the steel flange, two on each side. The firestop devices shall be installed as detailed in the following table:



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Core Hole or Sleeve Diam, In. (mm)	Firestop Device	Min-Max Floor Thickness In. (mm)
5 (102)	CFS-DID 3"C	6 - 6-1/2 (152 - 185)
5 (102)	CFS-DID 3"HC8	7-1/2 - 8-1/2 (191 - 216)
5 (102)	CFD-DID 3"HC10	9-1/2 - 10-1/2 (241 - 267)
5 (102)	CFS-DID 3"HC12	11-1/2 - 12-1/2 (292 - 318)

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-DID 3"C, CFS-DID 3"HC8, 10 and 12 Firestop Device

3. Single HVAC Line Set — Line set penetrants to be bundled and installed within the device. Penetrants to be rigidly supported on both sides of floor assembly. The following types and sizes of penetrants may be used:

A. Metallic Pipes — A max of two pipes or tubes installed within opening. The following types and sizes of metallic pipes, conduits or tubing may be used:

A1. Copper Tubing — Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.

A2. Copper Pipe — Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe. All pipes or tubing larger than nom 3/8 in. (9.5 mm) diam shall be provided with pipe covering (Item 3C).

B. Cables — One max 4 pair No. 18 AWG (or smaller) thermostat cable; XLPE or PVC insulation with XLPE or PVC jacket.

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

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

4. Packing Material — Min 1/2 in. (13 mm) thickness of min 4.0 pcf (64 kg/m³) mineral wool insulation firmly packed into annular space between penetrants and device, flush with top of device.

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



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