

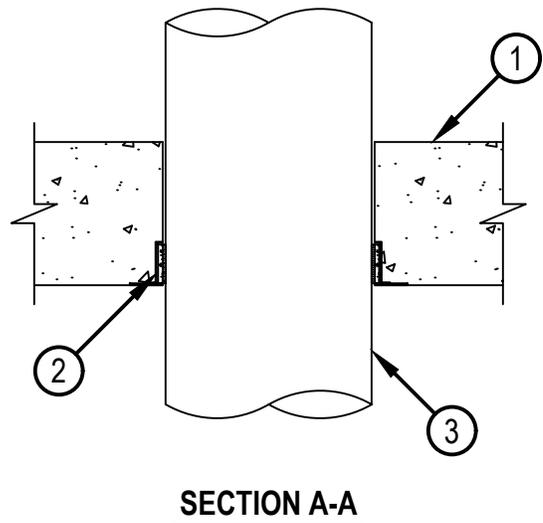
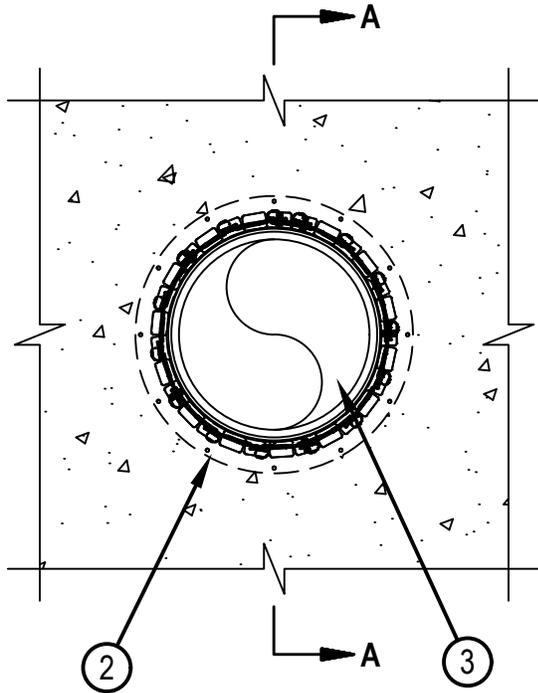


Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. F-A-1202

FA 1202

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 and 1/2 Hr (See Item 3)	FT Ratings — 0 and 1/2 Hr (See Item 3)
L Rating At Ambient - Less Than 1 CFM per device	FH Rating — 2 Hr
L Rating At 400°F - Less Than 1 CFM per device	FTH Ratings — 0 and 1/2 Hr (See Item 3)
W Rating - Class 1 (See Items 4 and 5)	L Rating At Ambient - Less Than 1 L/s per device
	L Rating At 204°C - Less Than 1 L/s per device



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System No. F-A-1202

FA 1202

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor.
2. Firestop Device* — Cast in place firestop device permanently embedded during the concrete pour or grouted into the concrete assembly in accordance with the accompanying installation instructions. Device to be sized for nom diam of through penetrant except as noted below.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-CID M 8", CFS-CID M 10"
3. Through Penetrants — One metallic pipe to be installed within the firestop system. Pipe to be rigidly supported on both sides of the floor assembly. The following types and sizes of the metallic pipes may be used:
 - A. Steel Pipe — Nom 10 in. (254 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 10 in. (254 mm) diam (or smaller) cast iron pipe.
 - C. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit.
 - D. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - E. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.T, FT and FTH Ratings are 0 hr for copper pipe and tubes (Items 3D, 3E).
++ For L Rating when the nom diam of pipe does not equal size of device, the mineral wool packing material (Item 4) is required.
4. Packing Material — (Not shown) - When the nom pipe diam does not equal the device size, min 4 in. (102 mm) thickness of packing material shall be tightly packed within the annular space around the pipe flush with top of floor, or recessed from top of floor to accommodate the fill material (Item 5). When pipe diam equals device size, packing material is optional and min 2-1/2 in. (64 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation may be firmly packed into top of opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material. Packing material shall not extend into the wrap strip layers. Packing material is required for the W Rating.
5. Fill, Void or Cavity Material* - Sealant — (Not shown) — When the nom pipe diam does not equal the device size, or when a W-rating is required, min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor. Sealant is required for the W Rating and when nominal diameter of pipe does not equal the device size. W Rating applies only when the nom diam of pipe equals size of device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 601S, CFS-S SIL GG, CFS-S SIL SL Sealant or FS-ONE MAX Intumescent Sealant

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