



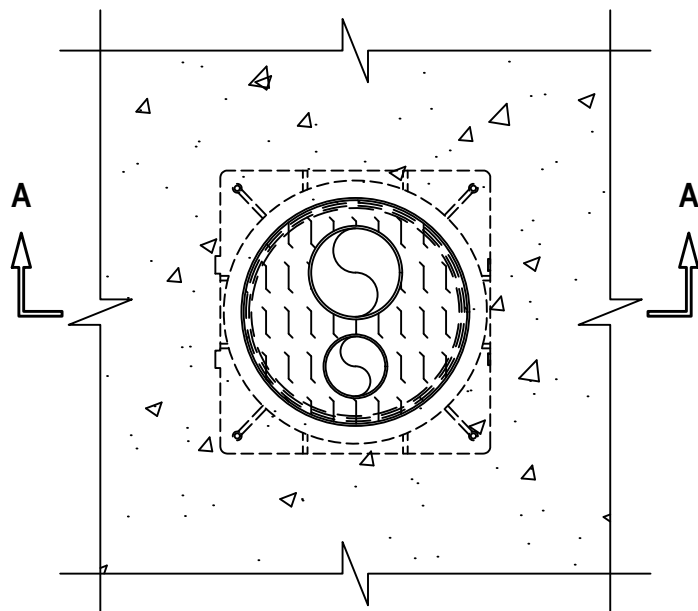
Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CAN/ULC-S115

## System No. F-A-1224

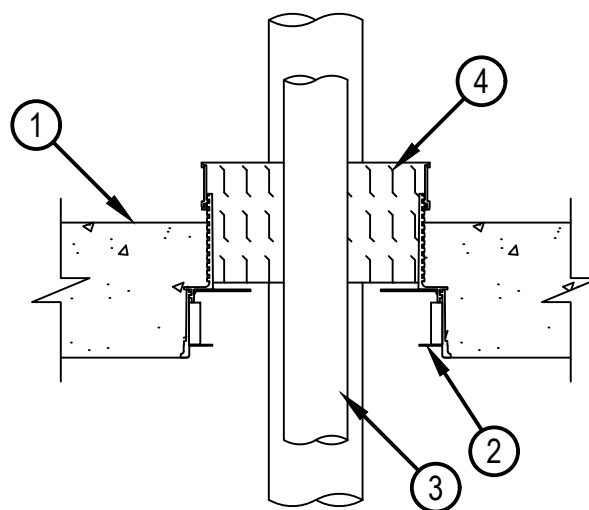
FA 1224

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

**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/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 with a maximum 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 — A max of one nom 3 in. (76 mm) diam (or smaller) and one nom 2 in. (51 mm) diam (or smaller) metallic pipes, tubes or conduits to be installed within the firestop system. The annular space between the penetrants shall be min 1/8 in. (3 mm). The annular space between penetrants and the device shall be min 1/2 in. (13 mm) to max 2 in. (51 mm). Penetrants to be rigidly supported on both sides of floor assembly. The following metallic pipes, tubes or conduits may be used.
  - A. Steel Conduit — Steel electrical metallic tubing or rigid steel conduit.
  - B. Steel Pipe — Schedule 5 (or heavier) steel pipe.
  - C. Iron Pipe — Cast or ductile iron pipe.
  - D. Copper Pipe — Regular (or heavier) copper pipe.
  - E. Copper Tubing — Type L (or heavier) copper tubing.
4. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed into device completely filling the space around conduits to fullest depth allowed by the device.

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