

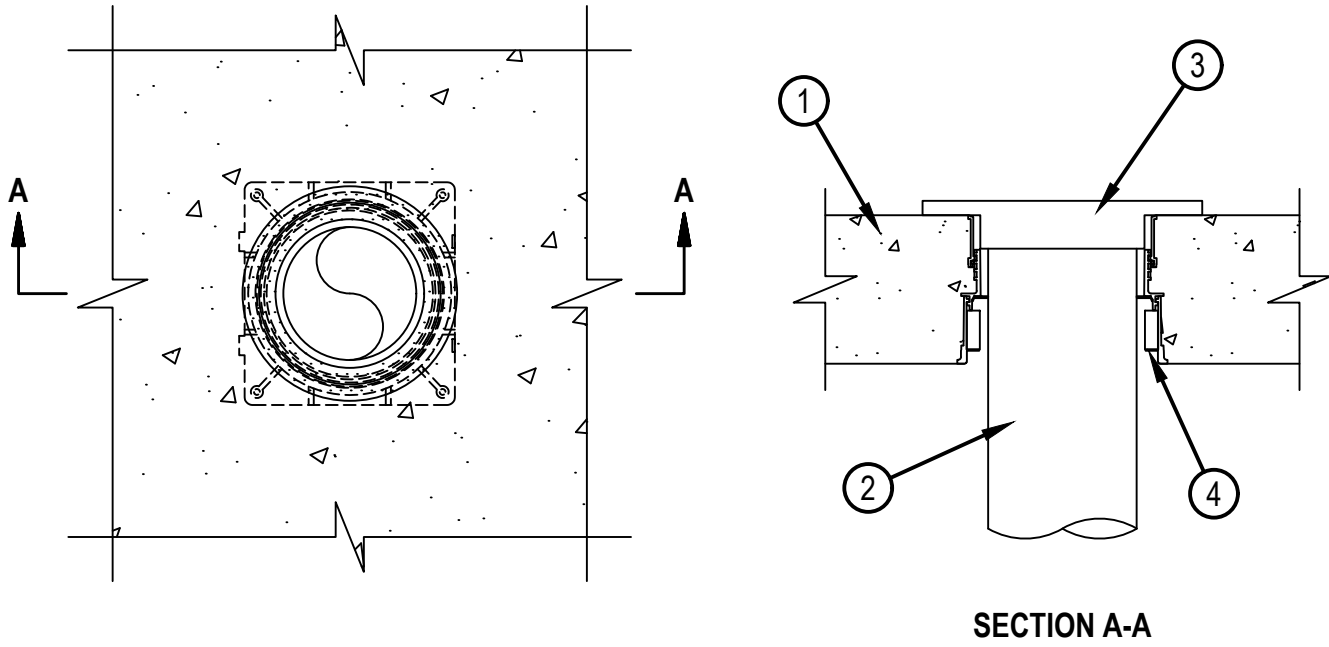


Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. F-A-2405

FA 2405

ANSI/UL1479 (ASTM E814)
F Rating — 3 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft



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 extensions permanently embedded during concrete placement or grouted in concrete assembly in accordance with accompanying installation instructions. Device to be cut flush with top surface of the concrete.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-CID U 3", CFS-CID U 4".
3. Closet Flange — Polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) closet stub sized to accommodate drain pipe. Closet flange with test cap in place installed over drain piping within top of Firestop Device with flange secured to concrete floor with steel screws or with 1/4 in (6mm) diameter steel expansion bolts in conjunction with steel nuts and 3/4 in. (19 mm) diameter steel washers.
4. Drain Piping — Nom 3 or 4 in. (76 or 102 mm) diam Schedule 40 solid core or cellular core polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) drain piping and fittings.
5. Water Closet — (Optional, Not Shown) when test cap of closet flange is removed, floor mounted vitreous china water closet shall be installed.

* 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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