

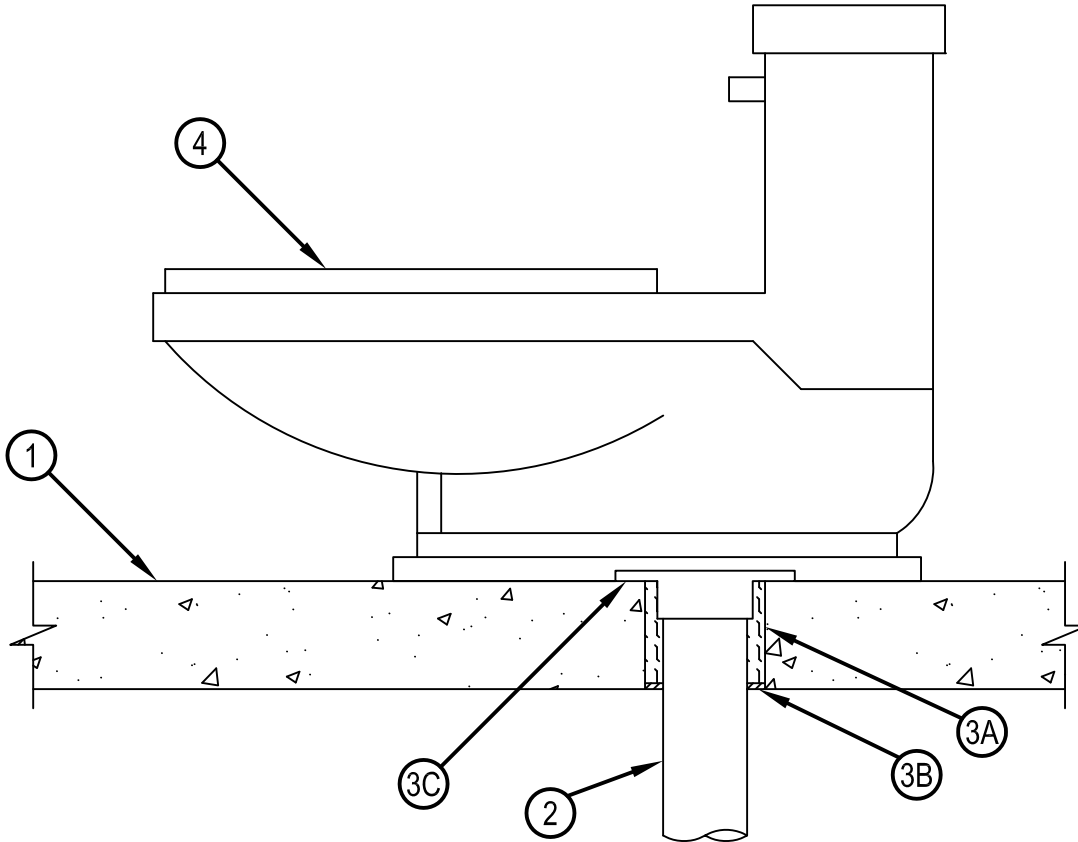


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. F-A-1108

FA 1108

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



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. Maximum diameter of opening 5 in. (127 mm)
2. Penetrants — One metallic pipe to be installed within the firestop device. Pipe to be rigidly supported on both sides of floor assembly. The annular space shall be min 3/8 in. (10 mm). The following types of pipes may be used:
 - A. Steel Pipe — Nom 3 in. (76 mm) diam Schedule 10 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 3 in. (76 mm) diam cast or ductile iron pipe.
3. Firestop System* — The firestop system shall consist of the following:
 - A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from bottom surface of floor to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material. - Sealant* — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus flush with bottom surface of floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
 - C. Toilet Flange — Nom 3" (76 mm) cast iron toilet flange secured to floor with concrete anchors.
4. Water Closet — Floor mounted vitreous china water closet.

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



Hilti Firestop Systems

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