



Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. C-AJ-2118

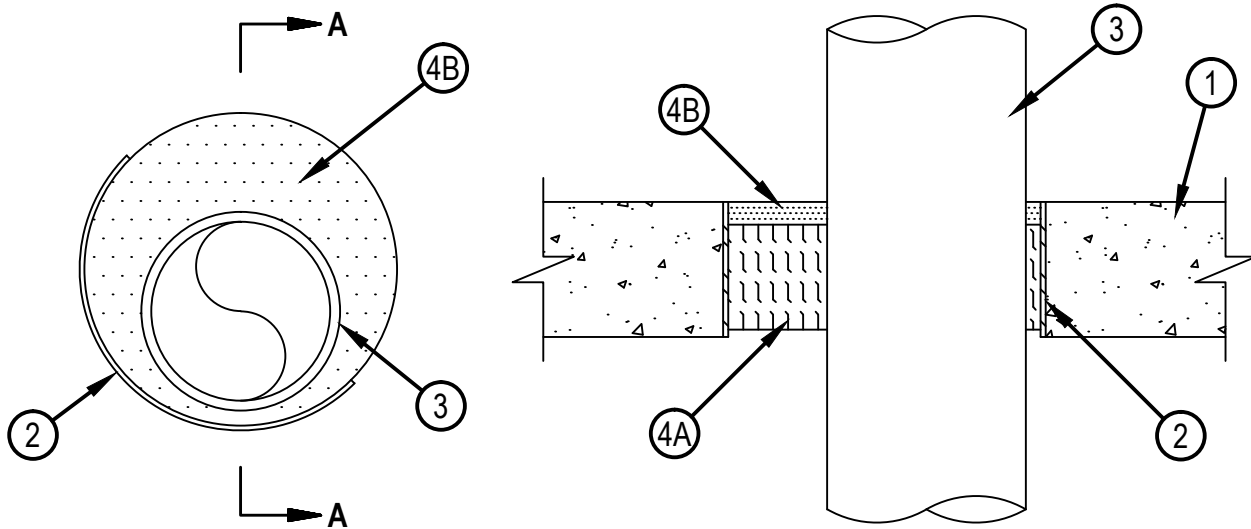
F Rating -- 3 Hr

T Rating -- 0 Hr

L Rating At Ambient -- Less Than 1 CFM/sq ft

L Rating At 400 F -- 4 CFM/sq ft

CAJ 2118



SECTION A-A

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 or min 5 in. (127 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 10 in. (254 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve — (Optional) — Nom 10 in. (254 mm) diam (or smaller) Sch 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through-Penetrants* — Glass Pipe — Nom 6 in. (152 mm) diam (or smaller) glass pipe used for use in closed (process or supply) or vented (drain, waste or vent) piping systems. One pipe to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 1/4 in. (6 mm) to max 3-1/2 in. (89 mm). Pipe couplings to be located min 12 in. (305 mm) from floor or wall surfaces. Pipe to be rigidly supported on both sides of floor or wall assembly.
4. Firestop System — The firestop system shall consist of the following:
 - A. Packing Material — Min 4.0 pcf (64 kg/m³) mineral wool batt insulation installed in through opening as a permanent form. Pieces of batt cut to min width of 3-1/2 in. (89 mm) and installed edge-first into opening such that batt sections are tightly-compressed in thickness and such that the compressed batt sections are recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE 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.



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
January 09, 2015