



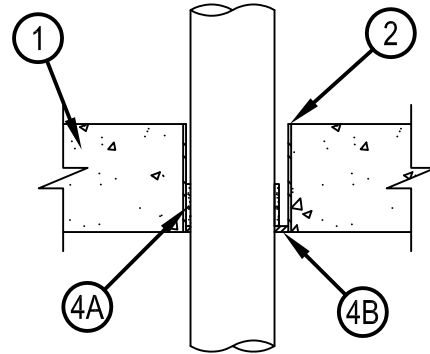
Classified by  
Underwriters Laboratories, Inc.  
to UL 1479

## System No. C-AJ-2569

F Rating — 2 Hr

T Rating — 0 Hr

CAJ 2569



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/m<sup>3</sup>) concrete floor or wall. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 6 in. (152 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Sleeve — (Optional) — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall.
3. Through Penetrants — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Annular space within the firestop system is dependent upon the max diam and type of penetrant used as tabulated in Item 4A. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:
  - A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. diam (or smaller) SDR13.5 CPVC for use in closed (process or supply) piping systems.
  - C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
4. Firestop System — The firestop system shall consist of the following:
  - A. Fill, Void or Cavity Material\* - Wrap Strip — One layer of intumescent wrap strip is continuously wrapped around the pipe with ends butted and held in place with integrated tape. Wrap strip installed recessed 1/4 in. (6 mm) from bottom surface of floor or both wall surfaces to accommodate fill material. Size of wrap strip for a given size penetrant is shown in the table below.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-S-1.5" US, CP648-S-2" US, CP648-S-3" US or CP648-S-4" US Wrap Strip

Product Designation	Nom Pipe Size Diam in. (mm)	Max Opening Diam in. (mm)	Annular Space Min in. (mm)	Annular Space Max in. (mm)	Nom Wrap Strip Thick in. (mm)	Nom Wrap Strip Width in. (mm)
CP648-S-1.5" US	1-1/2 (38)	3 (76)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-2" US	2 (51)	3-1/2 (89)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-3" US	3 (76)	4 (102)	3/16 (5)	9/16 (14)	3/16 (5)	1-3/4 (44)
CP648-S-4" US	4 (102)	6 (152)	3/8 (10)	1-1/8 (28)	3/8 (10)	1-3/4 (44)

- B. Fill, Void or Cavity Material\* — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with bottom surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One 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.



**Hilti Firestop Systems**

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