



Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. C-AJ-2488

F Rating — 2 Hr

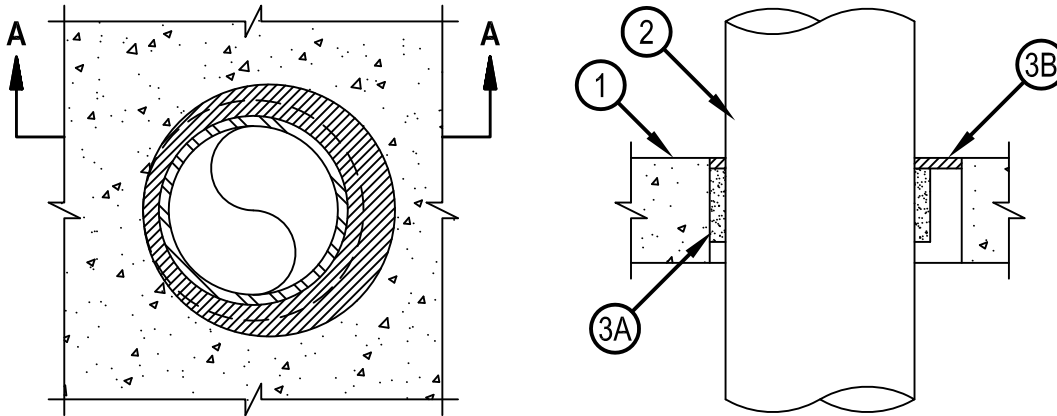
T Rating — 0 Hr

W Rating - Class 1 (See Item 3B)

L Rating at Ambient — Less Than 1 CFM/sq ft (See Item 3B)

L Rating at 400 F — Less Than 1 CFM/sq ft (See Item 3B)

CAJ 2488



SECTION A-A

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. See Table under Item 3B for max diam of opening.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through-Penetrants — One nonmetallic pipe or conduit installed within the firestop system. See Table under Item 3B for annular space required in the firestop system. 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 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe 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 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.



Hilti Firestop Systems

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3. Firestop System — The firestop system shall consist of the following:

A. Fill, Void or Cavity Material* Wrap Strip — See Table under Item 3B for min size of intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe once and slid into the annular space and held in place with integral fastening tape. The bottom edge of the wrap strip shall be recessed max 1/2 in. (13 mm) from the bottom surface of the concrete floor. In walls, the wrap strip shall be installed on both sides of the wall such that the exposed edge of the wrap strip is recessed 1/4 in. (6 mm) from each side of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 648S - 1.5" US, CP 648S - 2" US, CP 648S - 3" US and CP 648S - 4" US

B. Fill, Void or Cavity Material* - Caulk — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. W Rating and/or L Rating applies only when CP 601S, CFS-S SIL GG or CFS-S SIL SL (floors only) Sealant is used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant, FS-ONE MAX Intumescent, CP 601S, CFS-S SIL GG, or CFS-S SIL SL (floors only) Sealant.

Nom Pipe Diam, in.	Wrap Strip	Wrap Strip Size, thick. x width, in.	Max Diam of Opening, in.	Annular Space, in.	
				Min	Max
1 1/2	CP 648S - 1.5" US	3/16 x 1	3	3/16	3/4
2	CP 648S - 2" US	3/16 x 1	3 1/2	3/16	15/16
3	CP 648S - 3" US	3/16 x 1-3/4	4	3/16	5/16
4	CP 648S - 4" US	3/8 x 1-3/4	6	3/8	1 1/8

* 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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