



Underwriters Laboratories, Inc.
to UL 1479

System No. C-AJ-5352

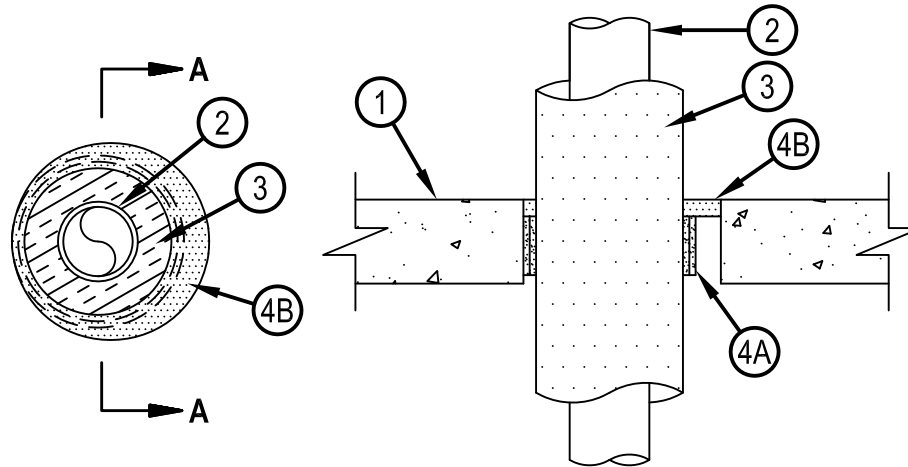
F Rating — 2 Hr

T Rating - 0 and 1 Hr (See Item 3)

L Rating At Ambient — 4 CFM/sq ft

L Rating At 400 F — Less Than 1 CFM/sq ft

CAJ 5352



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 1600-2400 kg/m³) concrete floor or min 2-3/4 in. (70 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 7 in. (178 mm).

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

2. Through Penetrants — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of the floor or wall assembly. The following type and sizes of nonmetallic pipe may be used:

A. Polypropylene (PP) Pipe — Nom 2 in. (63 mm OD) diam (or smaller) Aquatherm Fusiotherm SDR 11 PP pipe for use in closed (process or supply) piping systems.

B. Polypropylene (PP) Pipe — Nom 2 in. (63 mm OD) diam (or smaller) Orion Polystar™ CT-White SDR 11 pipe for use in closed (process or supply) piping systems.

3. Pipe Covering — Nom 1/2 in. to 1-1/2 in. (13 to 38 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min of 3/8 in. (10 mm) to a max of 1-1/8 in. (29 mm).

The T Rating is 1 hr when 1-1/2 in. (38 mm) thick pipe covering is used. The T Rating is 0 hr when pipe covering thickness is less than 1-1/2 in. (38 mm).

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

A. Fill, Void or Cavity Material* Wrap Strip — Nom 1-3/4 in. (44 mm) wide by 3/16 in. (5 mm) thick wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe covering twice, held in place with integral fastening tape and slid into the annular space. The bottom edge of the wrap strip shall be recessed max 1/4 in. (6 mm) from the bottom surface of the concrete floor or 1/2 in. (13 mm) from both surfaces of wall.

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B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or both surfaces of wall assembly.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — 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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April 15, 2015