



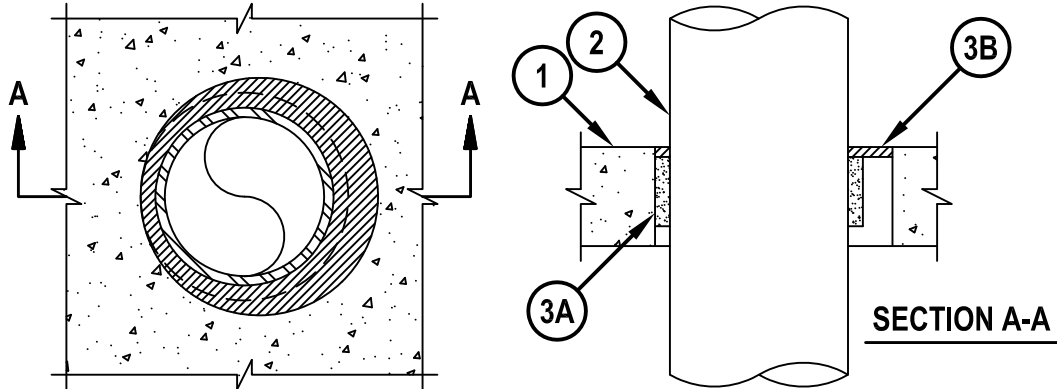
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. C-AJ-2036

F Rating - 2 Hr
FT Rating - 0 Hr
FH Rating - 0 Hr
FTH Rating - 0 Hr

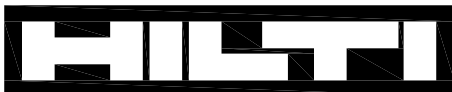


CAJ 2036



System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Floor or Wall Assembly — Min 64 mm (2-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/cu meter or 100-150 pcf) 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 102 mm (4 in.) 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 102 mm (4 in.) diam (or smaller) SDR11 or SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 102 mm (4 in.) 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.
 - D. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 102 mm (4 in.) diam (or smaller) SDR 11 CPVC for use in closed (process or supply) piping systems.
IPEX INC — AquaRise
 - F. Rigid Nonmetallic Conduit+ — Nom 102mm (4 in.) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).



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 top edge of the wrap strip shall be recessed max 13 mm (1/2 in.) from the top surface of the concrete floor. In walls, the wrap shall be installed on both sides of the wall such that the exposed edge of the wrap strip is recessed 6 mm (1/4 in.) 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 6 mm (1/4 in.) thickness of fill material applied within the annulus, flush with top surface of floor or both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

Nom Pipe Diam, mm (in.)	Wrap Strip	Wrap Strip Size, thick. x width, mm (in.)	Max Diam of Opening, mm (in.)	Annular Space, mm (in.)	
				Min	Max
38(1-1/2)	CP648S -1.5" US	5 x 25 (3/16 x 1)	76 (3)	5(3/16)	19 (3/4)
51 (2)	CP 648S - 2" US	5 x 25 (3/16 x 1)	89(3-1/2)	5(3/16)	24(15/16)
76 (3)	CP 648S - 3" US	5 x 44(3/16 x 1-3/4)	102 (4)	5(3/16)	8(5/16)
102 (4)	CP 648S - 4" US	10x 44 (3/8 x 1-3/4)	152 (6)	10(3/8)	29(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.

+Bearing the UL Listing Mark



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