



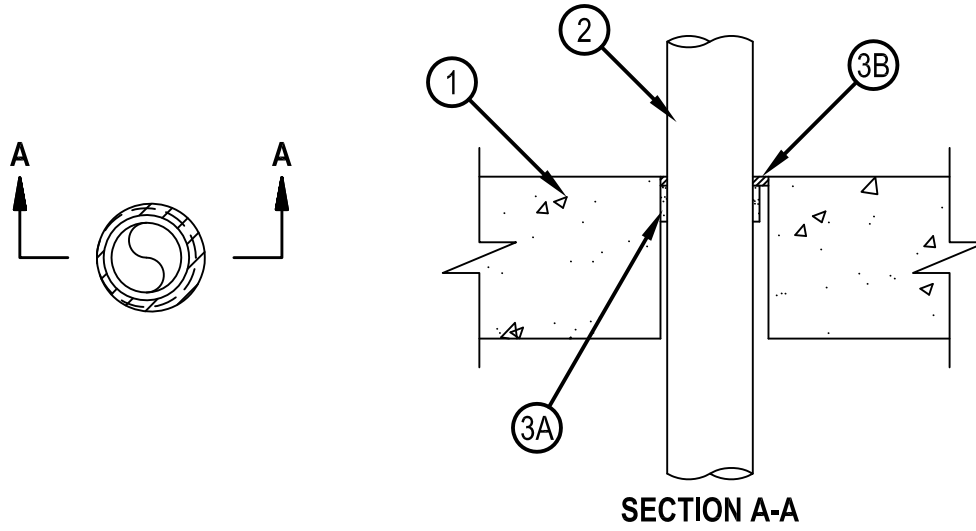
Classified by  
Underwriters Laboratories, Inc.  
to CAN/ULC-S115

## System No. C-AJ-2056

F Rating — 2 Hr  
FT Rating — 1/4 Hr  
FH Rating — 0 Hr  
FTH Rating — 0 Hr



CAJ 2056



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 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m<sup>3</sup> or 100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 76 mm (3 in.).

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. Polypropylene (PP) Pipe — Nom 51 mm (2 in.) diam (or smaller) Schedule 80 PP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

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 83 mm (3-1/4 in.) from the bottom surface of the concrete floor. In walls, the wrap shall be installed on both surfaces of the wall such that the exposed edge of the wrap strip is recessed 6 mm (1/4 in.) from each side of wall.

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

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)	64 (2-1/2)	5(3/16)	11 (7/16)
51 (2)	CP 648S - 2" US	5 x 25 (3/16 x 1)	76 (3)	5(3/16)	11 (7/16)

\* 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 07, 2015