



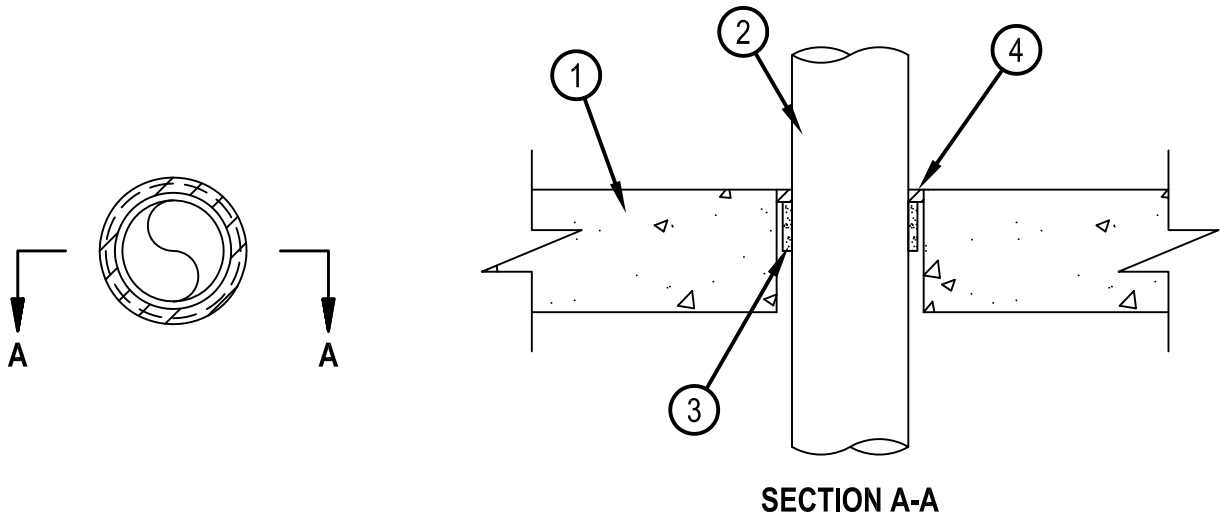
Classified by  
Underwriters Laboratories, Inc.  
to CAN/ULC-S115

## System No. C-AJ-2023

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



CAJ 2023



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 1600-2400kg/cu m (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diameter of opening 76 mm (3 in.).  
See Concrete Blocks (CAZT) category 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. Annular space within the firestop system shall be 8 mm (5/16 in.). 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 51 mm (2 in.) 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 51 mm (2 in.) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
  - C. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 51 mm (2 in.) drain (or smaller) SDR 11 CPVC for use in closed (process or supply) piping systems.
- IPEX INC — AquaRise
3. Firestop System — The firestop system shall consist of the following:
  - A. Fill, Void or Cavity Material\* - Wrap Strip — Nom 5 mm (3/16 in.) thick by 25 mm (1 in.) wide intumescent wrap strip. One layer of wrap strip wrapped tightly around pipe with ends held in place with aluminum foil tape. Wrap strip installed recessed from top surface of floor or both surfaces of wall 6 mm (1/4 in.).  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-E-W25/1"
  - A1. Fill, Void or Cavity Material - Wrap Strip — (As an alternate to the material in item 3A) - Nom 5 mm (3/16 in.) thick by 38mm (1-1/2 in.) or 50mm (2 in.) wide intumescent wrap strip. One layer of wrap strip wrapped tightly around the pipe with ends butted and held in place with tape. Wrap strip installed recessed from top surface of floor or both surfaces of wall 6 mm (1/4 in.).  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-S-1.5" US, CP648-S-2" US
  - B. Fill, Void or Cavity Materials\*-Sealant — Min 6 mm (1/4 in.) thickness of fill material applied within the annulus, flush with top surface of floor of 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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