



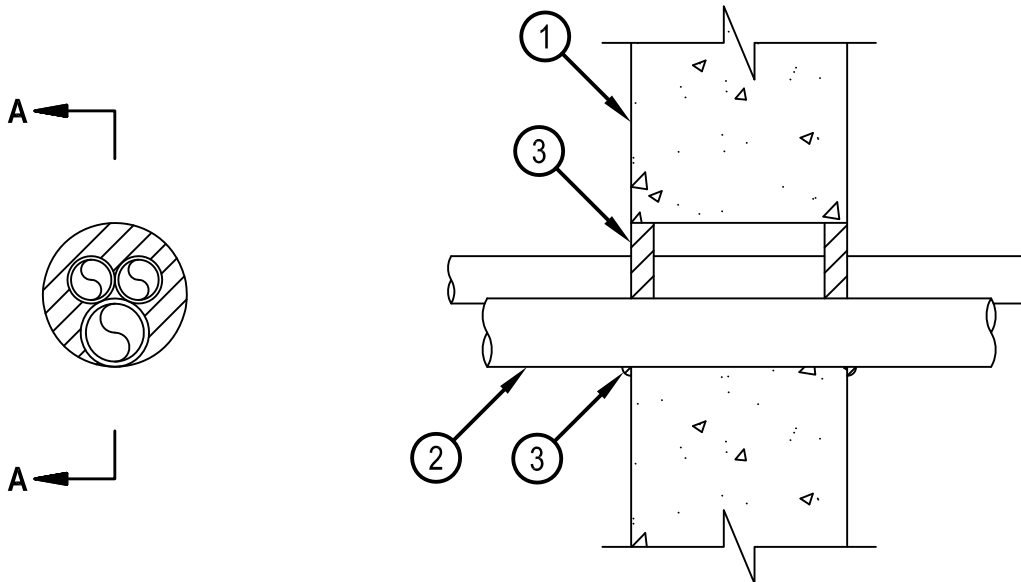
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. W-J-2016

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



WJ 2016



System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — Min 152 mm (6 in.) thick lightweight or normal weight (1600-2400 kg/m³ or 100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 102 mm (4 in.).
See Concrete Blocks (CAZT) category in the UL Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One or more nonmetallic pipes, conduits or tubes installed concentrically or eccentrically within opening. Annular space between penetrants and periphery of opening to be min 0 mm (point contact) to max 25 mm (1 in.). Space between penetrants shall be min 0 mm (point contact) to max 25 mm (1 in.). Penetrants to be rigidly supported on both sides of wall. The following types and sizes of penetrants may be used:
 - A. Polyvinyl Chloride (PVC) Pipe — Nom 38 mm (1-1/2 in.) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) piping systems.
 - B. Rigid Nonmetallic Conduit++ — Nom 38 mm (1-1/2 in.) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
 - C. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 38 mm (1-1/2 in.) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - D. Crosslinked Polyethylene (PEX) Tubing — Nom 25 mm (1 in.) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
3. Fill, Void or Cavity Material* - Caulk or Sealant — Min 16 mm (5/8 in.) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 6 mm (1/4 in.) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides 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.

++ Bearing the UL Listing Mark



Hilti Firestop Systems

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