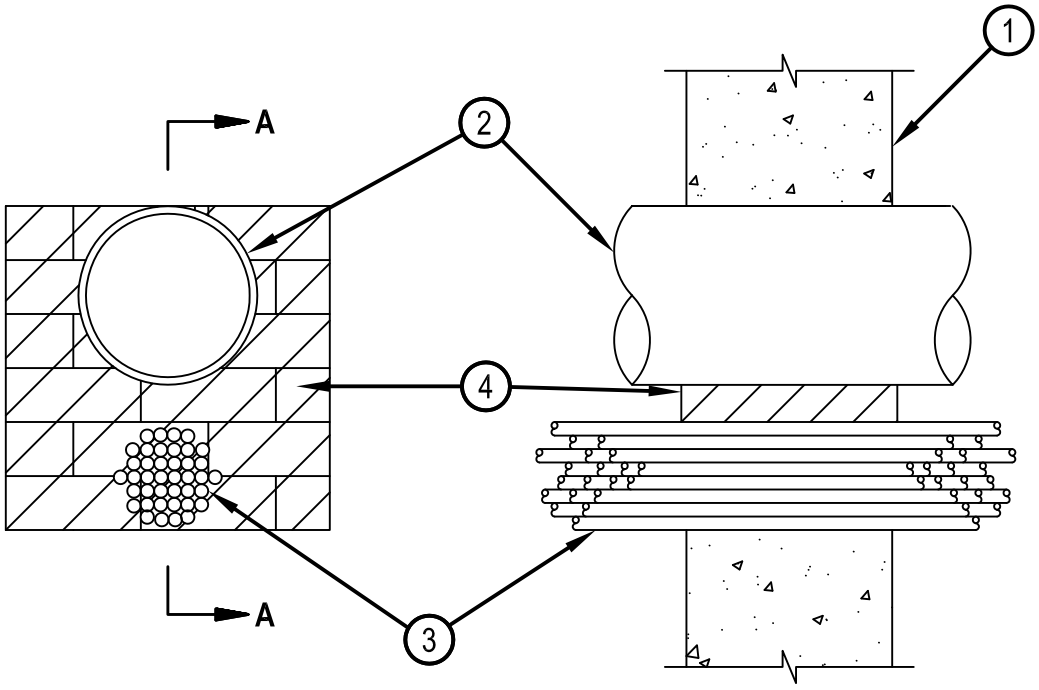
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-J-8009

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 4 Hr	F Rating — 4 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 4 Hr
	FTH Rating — 0 Hr



SECTION A-A

System No. W-J-8009

1. Wall Assembly* — The fire rated wall assembly shall be constructed of Precast Autoclaved Aerated Concrete* in the manner specified in Design No. U916 or U917 in the UL Fire Resistance Directory. Max area of opening is 144 sq in. (929 cm2) with max dimension of 12 in. (305 mm).
   AERCON FLORIDA L L C — AC-2, AC-4, AC-6
   BABB INTERNATIONAL/HEBEL — HBL-32, HBL-38 and HBL-44
2. Metallic Pipes — One metallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe, conduit or tubing and adjacent penetrating items (Item 3) shall be min 2 in. (51 mm) to max 4 in. (102 mm). The annular space between the pipe, conduit or tubing and periphery of the opening shall be min 0 in. (point contact) to max 4 in. (102 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Cables — Max 4 in. (102 mm) diam tight bundle. The annular space between the cable bundle and the periphery of the opening shall be min 0 in. (point contact) to max 6 in. (152 mm). Cable bundle to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:
   A. 300 pair — No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 7/C No. 12 AWG cable with PVC insulation and PVC jacket.
4. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* — Fire blocks installed with long dimension passing through the opening from surface to surface. Blocks to completely fill the entire opening.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS 657 Fire Block or CFS-BL Firestop Block
   B. Fill, Void or Cavity Material* — Sealant — Fill material to be forced into interstices of cables, between the penetrants and the FS-Fire Blocks, and in obvious openings between blocks and between blocks and the periphery of the opening to the max extent possible on both surfaces of wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
   C. Wire Mesh — A nom 2 by 2 in. (51 by 51 mm) square wire fencing shall be used to keep the blocks in place. The wire fencing is fabricated from min No. 16 SWG (0.060 in. or 1.5 mm diam) galv steel wire. The wire is cut to fit the contour of the penetrating item with a min 3 in. (76 mm) lap beyond the periphery of the opening. Wire fencing secured to both surfaces of the wall assembly by means of 1/4 in. (6 mm) diam by 4-3/16 in. (106 mm) long hollow wall anchors and 1/4 in. (6 mm) by 1-1/2 in. (38 mm) diam steel fender washers spaced max 8 in. (203 mm) OC.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.