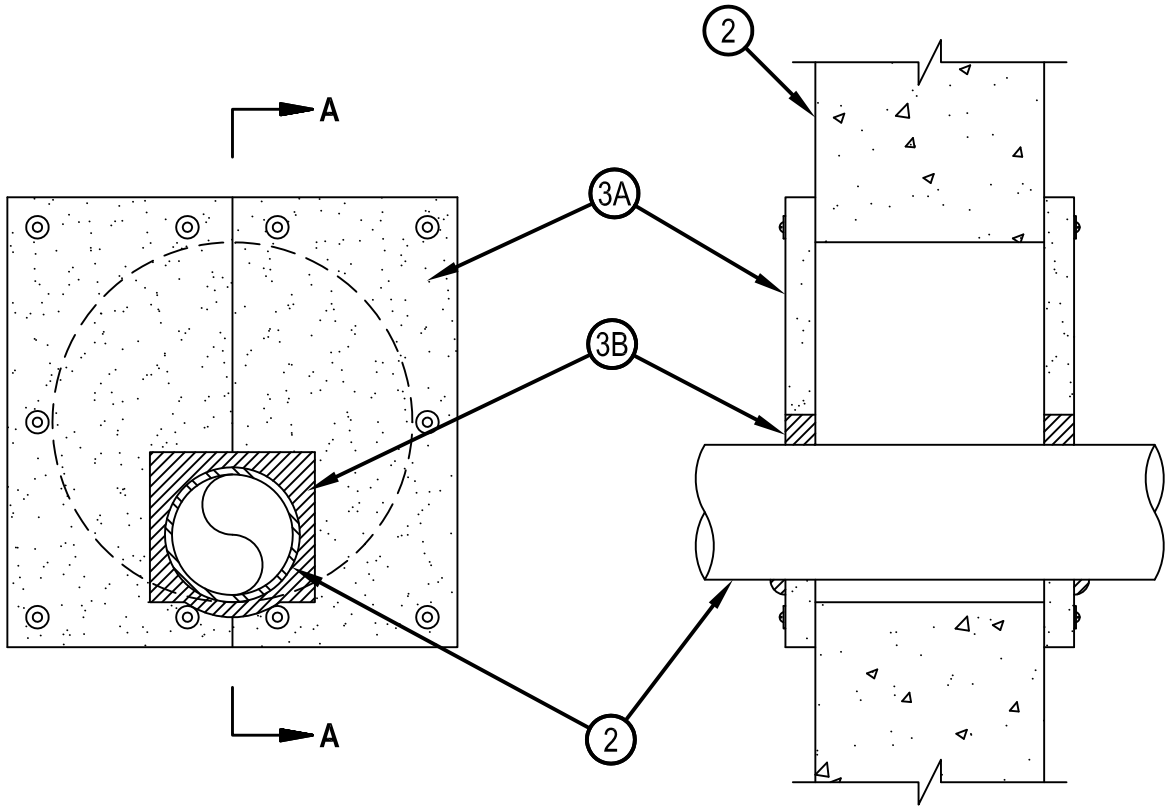
System No. W-J-1175

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

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 1/4 Hr	FT Rating — 1/4 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Rating — 1/4 Hr
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



SECTION A-A

System No. W-J-1175

1. Wall Assembly — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 17 in. (432 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 8 in. (203 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 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 6 in. rigid steel conduit.
   D. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Firestop System — The firestop system shall consist of the following:
   A. Firestop Device* - Board — Board to be cut in half and installed to wrap around penetrant. Min 1/2 in. (13 mm) bead of fill material (Item 3B) to be applied to cut edge of board prior to butting together. Board installed on each side of wall with min 1 in. (25 mm) overlap onto wall. Board cut to rectangular shape within 1 in. (25 mm) of penetrant. The min annular space between board and penetrant shall be 0 in. (0 mm, point contact). Board attached around entire perimeter using min 3/16 in. (5 mm) diam by 2-1/4 in. (57 mm) long steel concrete screw anchors with 1-1/4 in. (32 mm) OD steel washers. Anchors to be located at each corner of each cut board and spaced maximum 6 in. (152 mm) OC in between.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 675T Firestop Board
   B. Fill, Void or Cavity Material* - Sealant — Min 1/2 in. (13 mm) bead of fill material to be applied to cut edge of board (Item 3A) prior to butting together. Min 1 in. (25 mm) depth of fill material applied in annular space between penetrant and board. Min 1/2 in. (13 mm) bead of material applied at point contact location between penetrant and board.
   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.