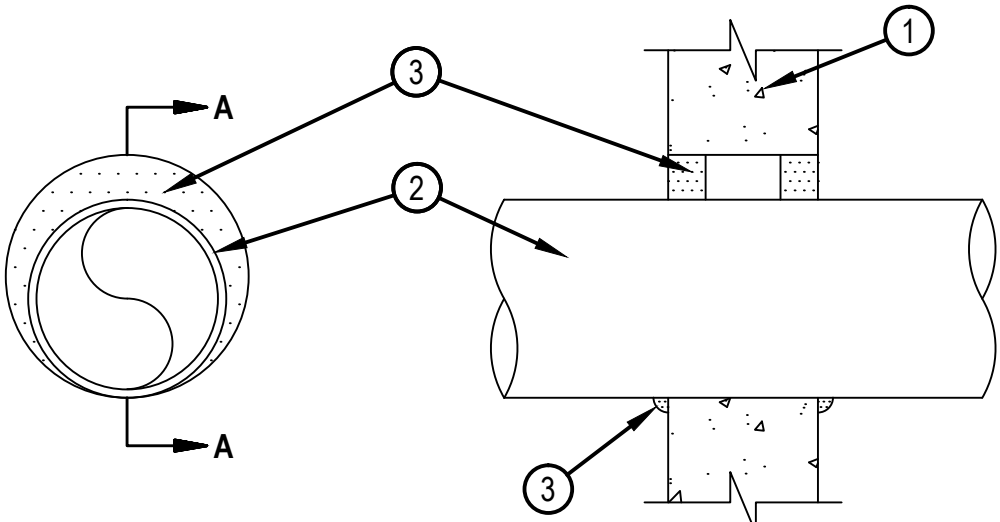
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-J-1168

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 & 2 Hr (See Item 1)	F Ratings — 1 & 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating— 0 Hr
	FH Ratings — 1 & 2 Hr (See Item 1)
	FTH Rating — 0 Hr



SECTION A-A

1. Wall Assembly — Min 4-3/4 in. and 6 in. (121 and 152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete for 1 and 2 hr ratings , respectively. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diameter of opening 26-5/8 in. (676 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers
2. Through Penetrant — One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. See Table below for annular space between the pipe, conduit or tube and periphery of the opening . The following types and sizes of metallic pipes, conduit or tube may be used:
   A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam (or smaller) steel conduit.
   D. Copper Tube — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

Pipe	Max Nom Diam, in.	Min - Max Annular Space, in.
A,B	10 (254)	0 to 1-1/2 (38)
A,B	24 (610)	0 to 7/8 (22)
C	6,4 (152, 102)	0 to 1-1/2 (38)
D,E	4 (102)	0 to 1-1/2 (38)
D,E	6 (152)	0 to 7/8 (22)

3. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. and 1-1/4 in. (16 and 32 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 and 2 hr rated wall assemblies, respectively. When the annular space does not exceed 7/8 in. (22 mm), min 5/8 in. (16 mm) thickness of fill material is required for both 1 and 2 hr rated walls. At the point contact location between penetrant and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the penetrant/wall interface.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG or CP601S Elastomeric Firestop Sealant

*Bearing the UL Classification Mark