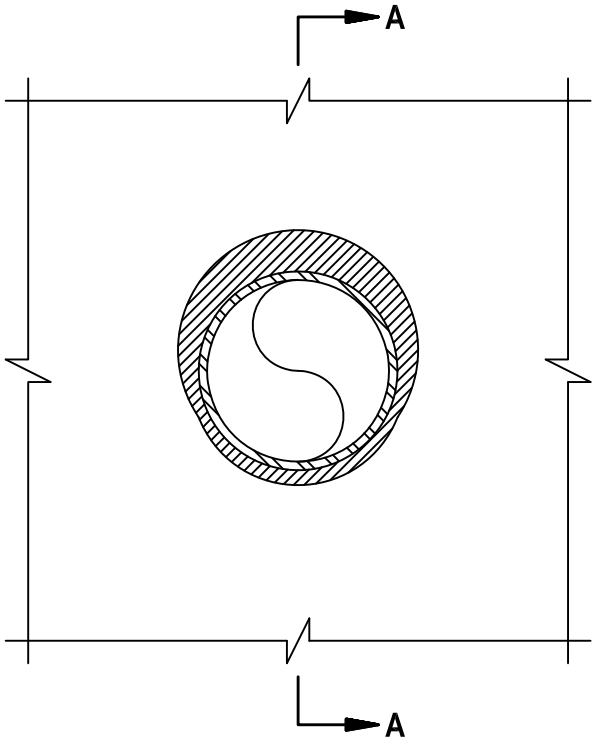
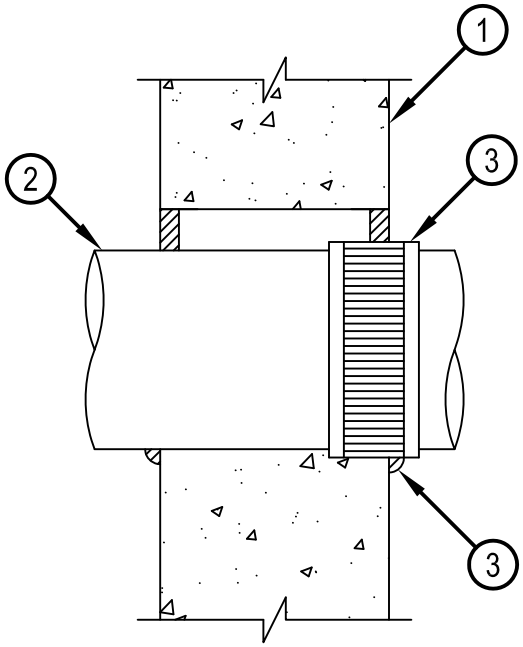
System No. W-J-1174

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
	FH Rating — 2 Hr
	FTH Rating — 1/4 Hr





SECTION A-A

1. Wall Assembly — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall assembly may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. (203 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — One Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe to be installed eccentrically or concentrically within the firestop system. Pipe to be rigidly supported on both sides of the wall assembly.
3. Compression Coupling — Metallic pipes to be secured together with compression type pipe coupling with elastomeric gasket and a stainless steel jacket with stainless steel band clamps. Coupling to be installed entirely within opening or partially within opening. The annular space between the pipe or coupling and the periphery of the opening shall be min 0 in. (point contact) to max 1 in. (25 mm).
4. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/coupling interface on 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.