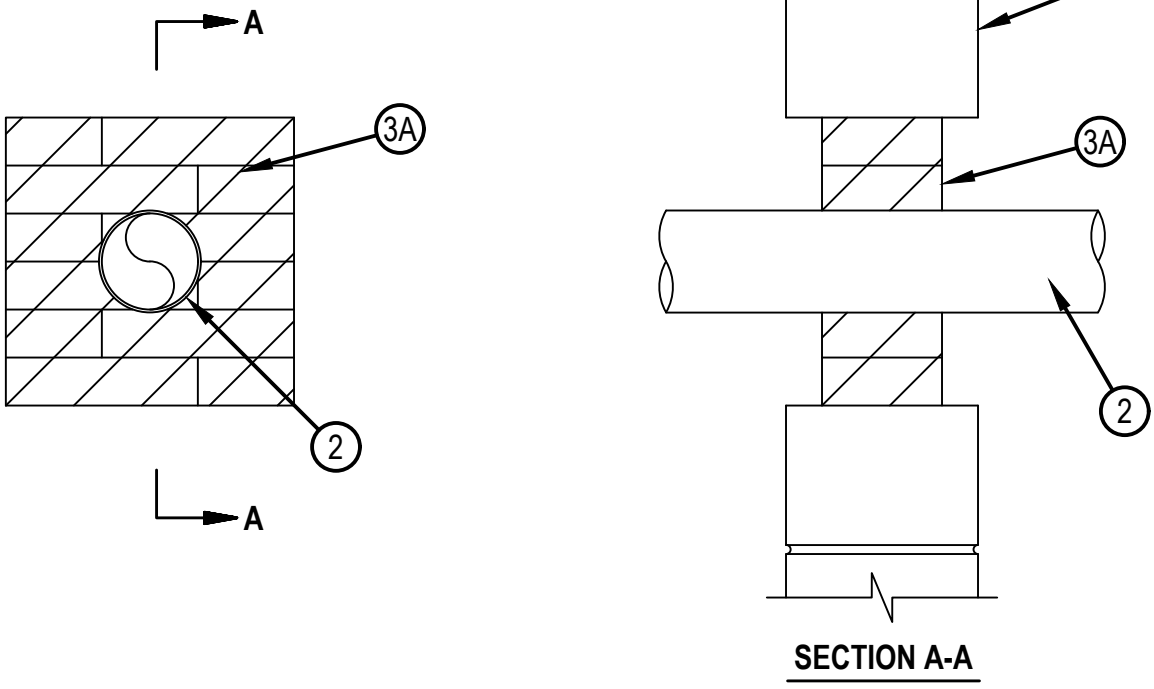
Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. W-J-1245

F Rating —2 Hr
T Rating — 1/4 Hr
L Rating At Ambient — 5 CFM/sq ft (See Item 3B)
L Rating At 400 F — 2 CFM/sq ft (See Item 3B)



SECTION A-A

1. Wall Assembly — Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any solid or filled UL Classified Concrete Blocks*. Max area of opening is 144 in2 (929 cm2) with max dimension of 12 in. (305 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Aluminum Tube — Nom 4 in. diam (or smaller) 0.125 in. thick (or heavier) aluminum tube for use in closed (process or supply) piping systems. One tube to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 3 in. (76 mm). Tubing to be rigidly supported on both sides of wall assembly.
3. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* — Fire blocks installed with min 5 in. (127 mm) dimension passing through and centered within the opening. Blocks to be firmly packed and completely fill the entire opening around the penetrant.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-BL Firestop Block
   B. Fill, Void or Cavity Material* — Fill material to be forced into any voids/openings between blocks, around penetrants, and between blocks and periphery of opening to the maximum extent possible on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, CP618 Firestop Putty Stick, CP 660 Firestop Foam or CP 620 Fire Foam (Note: L Ratings apply only when FS-ONE Sealant or FS-ONE MAX Intumescent Sealant is used.)

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