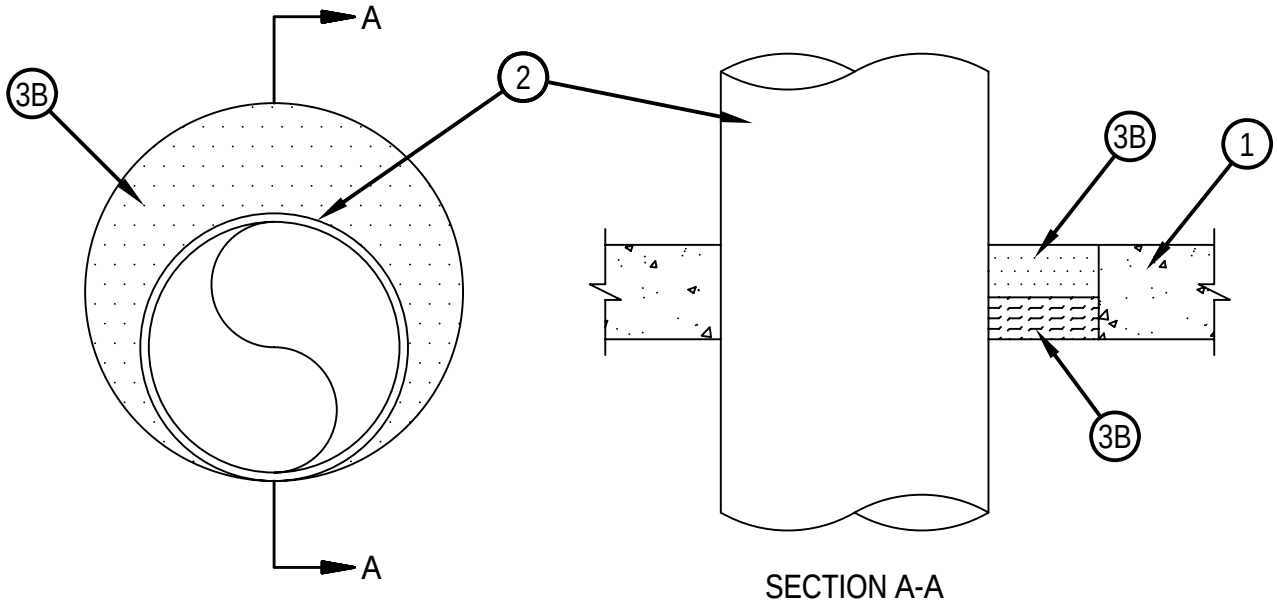
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-1449

F Rating — 3 Hr
T Rating — 0 Hr
W Rating — Class I



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any solid or filled UL Classified Concrete Blocks*. Max diameter of opening is 18 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — One metallic pipe, conduit or tube to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit of tube and periphery of opening shall be min 0 in. (point contact) to max 5-1/4 in. Pipe, conduit of tube to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubes may be used:
   A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12in, diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 6 in. diam (or smaller) steel conduit.
   D. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic conduit.
   E. Copper Tubing — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   F. Copper Pipe — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 2 in. thickness of 4 pcf mineral wool batt insulation tightly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor and both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Materials*-Foam — Min 2-1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP620 Fire Foam

*Bearing the UL Classification Mark