



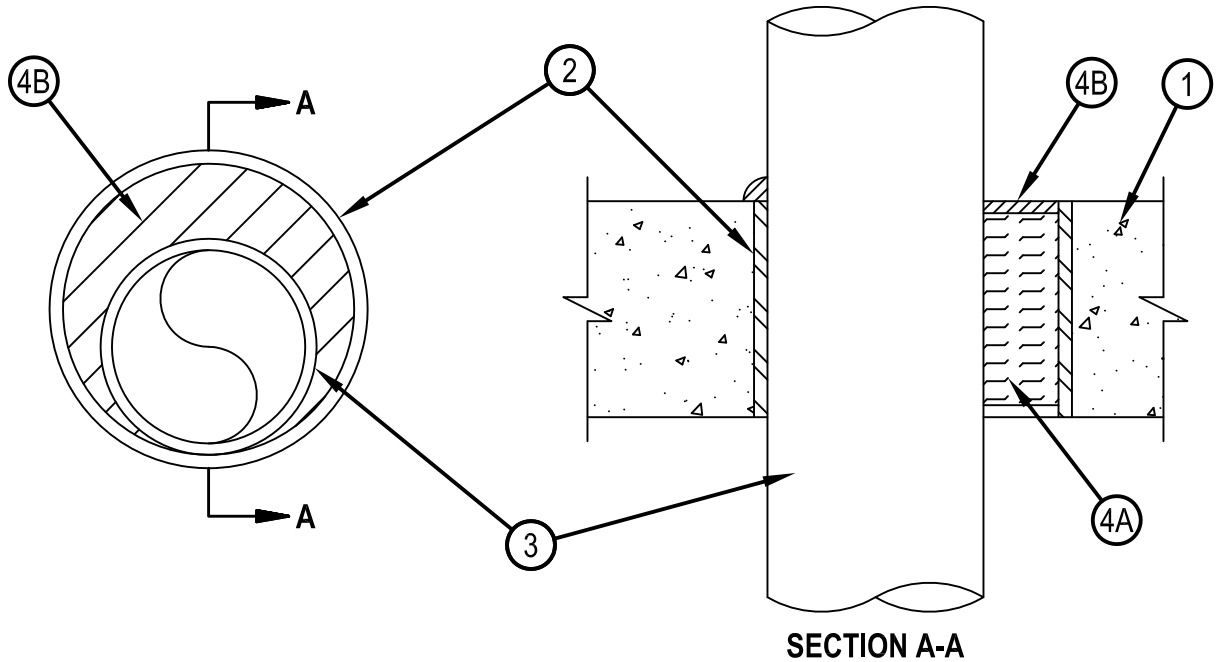
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. C-AJ-1011

F Rating — 3 Hr
FT Rating — 0 Hr
FH Rating — 0 Hr
FTH Rating — 0 Hr



CAJ 1011



1. Floor or Wall Assembly — Min 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight 1600-2400 kg/cu m (100-150 pcf) concrete. Wall may be constructed of any UL Classified Concrete Blocks*. Max diameter of opening is 152 mm (6 in.).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve (Optional) — Nom 152 mm (6 in.) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall flush with floor or wall surfaces.
3. Through Penetrants — One metallic pipe, conduit or tubing to be installed concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The annular space between pipe, conduit or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 137 mm (5-3/8 in.) The following types of pipe, conduit or tubing may be used:
 - A. Steel Pipe — Nom 102 mm (4 in.) diam (or Smaller) Schedule 10 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 102 mm (4 in.) diam (or smaller) cast or ductile iron pipe.
 - C. Conduit — Nom 102 mm (4 in.) diam (or smaller) rigid steel conduit.
 - D. Conduit — Nom 102 mm (4 in.) diam (or smaller) steel electrical metallic conduit.
 - E. Copper Tubing — Nom 102 mm (4 in.) diam (or smaller) Type L (or heavier) copper tubing.
 - F. Copper Pipe — Nom 102 mm (4 in.) diam (or smaller) Regular (or heavier) copper pipe.
4. Firestop System — The firestop system shall consist of the following:
 - A. Packing Material — Min 102 mm (4 in.) thickness of 64 kg/cu m (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 or both surfaces of wall as required to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Materials*-Sealant — Min 6 mm (1/4 in.) thickness of fill material applied within the annulus, flush with top surface of floor or both surfaces of wall. At the point contact location between pipe and concrete or sleeve, a min 6 mm (1/4 in.) diam bead of fill material shall be applied at the concrete or sleeve/pipe interface on the top surface of floor and both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, CFS-S SIL GG, CFS-S SIL SL (floors only) or CP604 Self-Leveling Firestop Sealant.

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



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of
Underwriters Laboratories, Inc.
January 06, 2015