



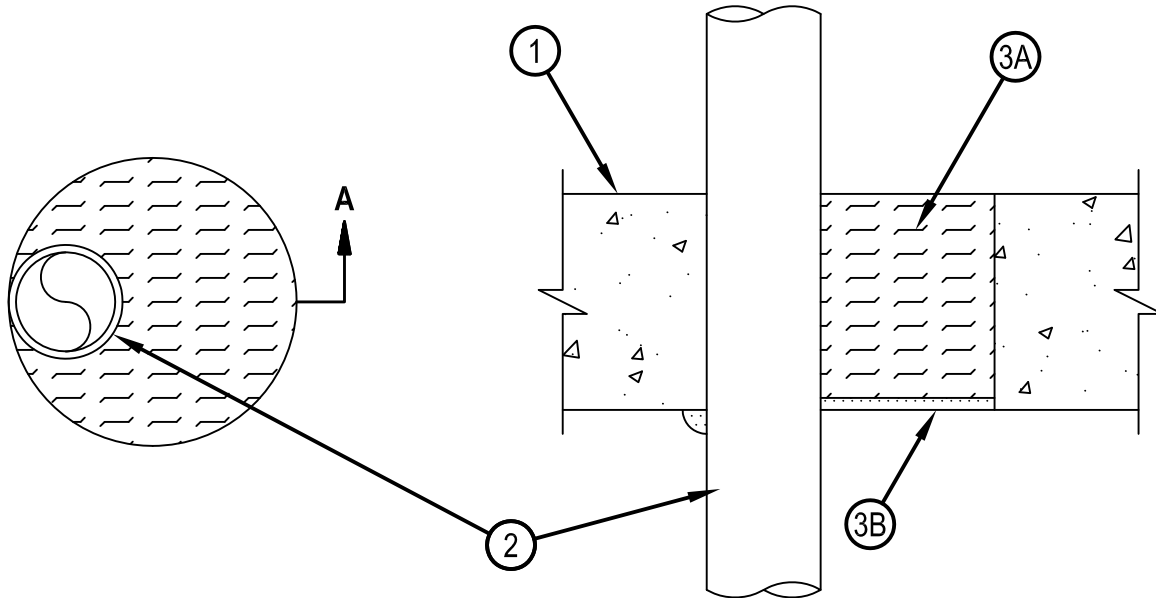
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

System No. C-AJ-1010

F Rating — 2 Hr
FT Rating — 0 Hr
FH Rating — 0 Hr
FTH Rating — 0 Hr



CAJ 1010



SECTION A-A

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 also 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. Through Penetrants — One metallic pipe, conduit or tubing to be installed concentrically or eccentrically within the opening. 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 mm (0 in.) (point contact) to max 98 mm (3-7/8 in.). The following types of pipe, conduit or tubing may be used:
 - Steel Pipe — Nom 51 mm (2 in.) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe — Nom 51 mm (2 in.) diam (or smaller) cast or ductile iron pipe.
 - Conduit — Nom 51 mm (2 in.) diam (or smaller) rigid steel conduit.
 - Conduit — Nom 51 mm (2 in.) diam (or smaller) steel electrical metallic conduit.
 - Copper Tubing — Nom 51 mm (2 in.) diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe — Nom 51 mm (2 in.) diam (or smaller) Regular (or heavier) copper pipe.
3. Firestop System — The firestop system shall consist of the following:
 - A. Packing Material — Min 108 mm (4-1/4 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 bottom surface of floor or from one surface 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 bottom surface of floor or one surface of wall. At point contact, a min 6 mm (1/4 in.) diam bead of fill material shall be applied at the concrete/pipe interface on bottom surface of floor or one surface of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, CP601s Elastomeric Firestop Sealant, CFS-S SIL GG or CP606 Flexible 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

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