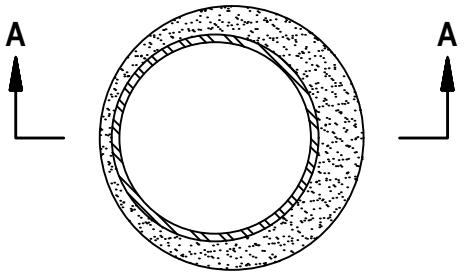
Classified by
Underwriters Laboratories, Inc.
to CAN/ULC-S115

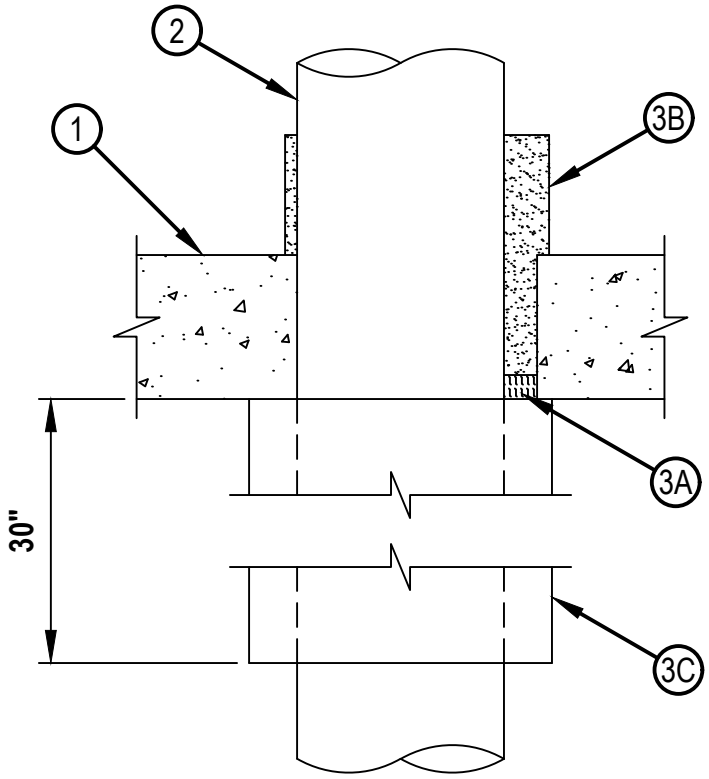
System No. C-BJ-1069

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

CANADA ONLY

CBJ1069





SECTION A-A

1. Floor or Wall Assembly — Min 152 mm (6 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m3 or 100-150 pcf) concrete. Wall may also be constructed of any solid or filled UL Concrete Blocks*. Max diameter of opening is 254 mm (10 in.).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One metallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 mm (point contact) to max 35 mm (1-3/8 in.). Pipe to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of metallic pipes may be used:
   A. Steel Pipe — Nom 203 mm (8 in.) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe — Nom 203 mm (8 in.) diam (or smaller) cast or ductile iron pipe.

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3. Firestop System — The firestop system shall consist of the following:

A. Packing Material — Min 25 mm (1 in.) thickness of 64 kg/m3 (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 as required to accommodate the required thickness of fill material. Packing material not required in walls.

B. Fill, Void or Cavity Materials* — Foam — Min 127 mm (5 in.) thickness of fill material applied within the annulus, flush with top surface of floor or min 152 mm (6 in.) thickness of fill material applied within the annulus, flush with both surfaces of wall. Additional fill material shall extend above the top surface of the floor in accordance with the following table and shall overlap the concrete 13 mm (1/2 in.) around the perimeter of the opening.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 660 Firestop Foam

Concrete Thickness - mm (In.)	Foam Extension Above Surface - mm (In.)
152 (6)	102 (4)
178 (7)	76 (3)
203 (8)	51 (2)
229 (9)	25 (1)
254 (10)	None

C. Pipe Covering Materials* — Nom 51 mm (2 in.) thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube. Pipe insulation shall extend 762 mm (30 in.) along length of pipe, flush with lower surfaces of floor or both surfaces of wall. Pipe insulation secured with nom 16 AWG steel wire spaced max 152 mm (6 in.) OC.

IIG MINWOOL L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc

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