## **cUL SYSTEM NO. C-BJ-1069**

# CANADA ONI

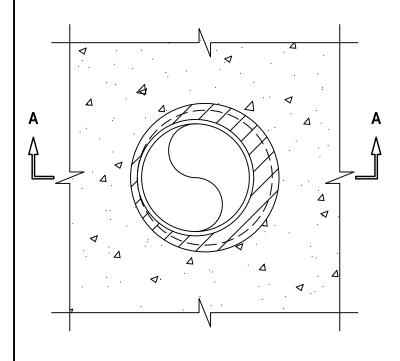
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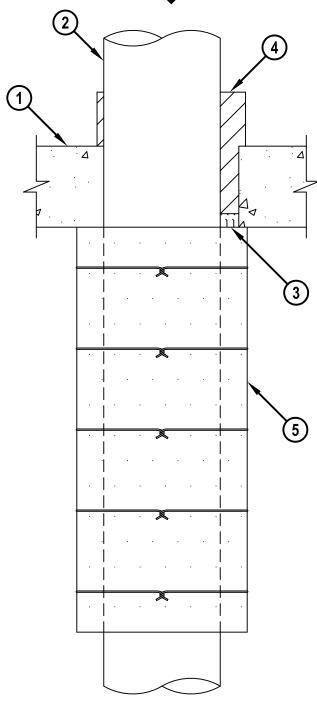
# METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR. FT-RATING = 2-HR. FH-RATING = 0-HR. FTH-RATING = 0-HR.

**TOP VIEW** 

**SECTION A-A** 







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Sheet	1 of 2
Scale	9/64" = 1"
Date	Jan. 27. 2016

CUL CBJ1069a

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### METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR. FT-RATING = 2-HR. FH-RATING = 0-HR. FTH-RATING = 0-HR. cUL CBJ1069a.012716

- 1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING):
  - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL ASSEMBLY (MINIMUM 6" THICK).
  - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 3 BELOW):
  - A. MAXIMUM 8" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
  - B. MAXIMUM 8" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
- 3. MINIMUM 1" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND FLUSH WITH THE BOTTOM OF CONCRETE FLOOR. WALL INSTALLATIONS DO NOT REQUIRE MINERAL WOOL.
- 4. MINIMUM 5" DEPTH HILTI CP 660 FIRESTOP FOAM INSTALLED WITHIN THE ANNULAR SPACE AND EXTENDING ABOVE THE FLOOR IN ACCORDANCE WITH TABLE BELOW. CP 660 FIRESTOP FOAM TO OVERLAP CONCRETE 1/2" AROUND THE PERIMETER OF THE OPENING. WALLS REQUIRE MINIMUM 6" DEPTH CP 660 FLUSH WITH BOTH SIDES OF WALL.
- 5. NOMINAL 2" THICK MINERAL FIBER PIPE INSULATION TO EXTEND MINIMUM 30" BELOW FLOOR OR BOTH SIDES OF A WALL. PIPE INSULATION TO BE TIGHTLY BUTTED TO BOTTOM OF FLOOR OR SIDE OF WALL AND SECURED WITH 18 GA. STEEL TIE WIRE (SPACED MAXIMUM 6" C/C) (ALSO SEE NOTE NO. 4 BELOW).

CONCRETE THICKNESS	FIRE FOAM EXTENSION ABOVE SURFACE
6"	4"
7"	3"
8"	2"
9"	1"
10"	NONE

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 10".

- 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-3/8".
- 3. PIPE MAY RUN VERTICALLY OR TURN 90° HORIZONTALLY BELOW FLOOR.
- 4. MINERAL FIBER PIPE INSULATION TO BE MANUFACTURED BY IIG, MINWOOL LLC. IN ADDITION TO STEEL TIE WIRES, INSULATION MAY BE WRAPPED WITH A UL APPROVED ALL SERVICE JACKET.



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