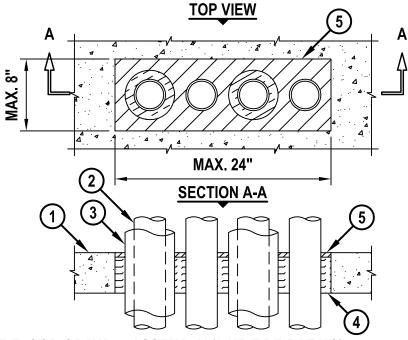
UL/cUL SYSTEM NO. C-AJ-8041

MULTIPLE INSULATED/NON-INSULATED METAL PIPES THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR.
T RATING = 0-HR. OR 1-HR.
L RATING AT AMBIENT = 10 CFM / SQ FT
L RATING AT 400°F = 6 CFM / SQ FT



- 1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
 - B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
 - C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
- 2. PENETRATING ITEMS TO BE ANY COMBINATION OF THE FOLLOWING (MAX. QTY. = 4):
 - A. MAXIMUM 3" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 3" NOMINAL DIAMETER COPPER PIPE.
 - C. MAXIMUM 3" NOMINAL DIAMETER STEEL CONDUIT.
 - D. MAXIMUM 3" NOMINAL DIAMETER EMT.
- 3. [OPTIONAL] MAXIMUM 1" THICK GLASS FIBER PIPE INSULATION ON ANY OR ALL PIPES.
- 4. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
- 5. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- NOTES: 1. MAXIMUM AREA OF OPENING IS 192 SQUARE INCHES, WITH A MAXIMUM DIMENSION OF 24 INCHES.
 - 2. ANNULAR SPACE BETWEEN PIPES = 1-1/2".
 - 3. ANNULAR SPACE BETWEEN PIPES AND PERIPHERY OF OPENING = MINIMUM 1-5/8", MAXIMUM 2-1/2".
 - 4. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.



HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000

Sheet	1 of 1
Scale	3/32" = 1"
Date	Jan. 06, 2015

CAJ 8041h