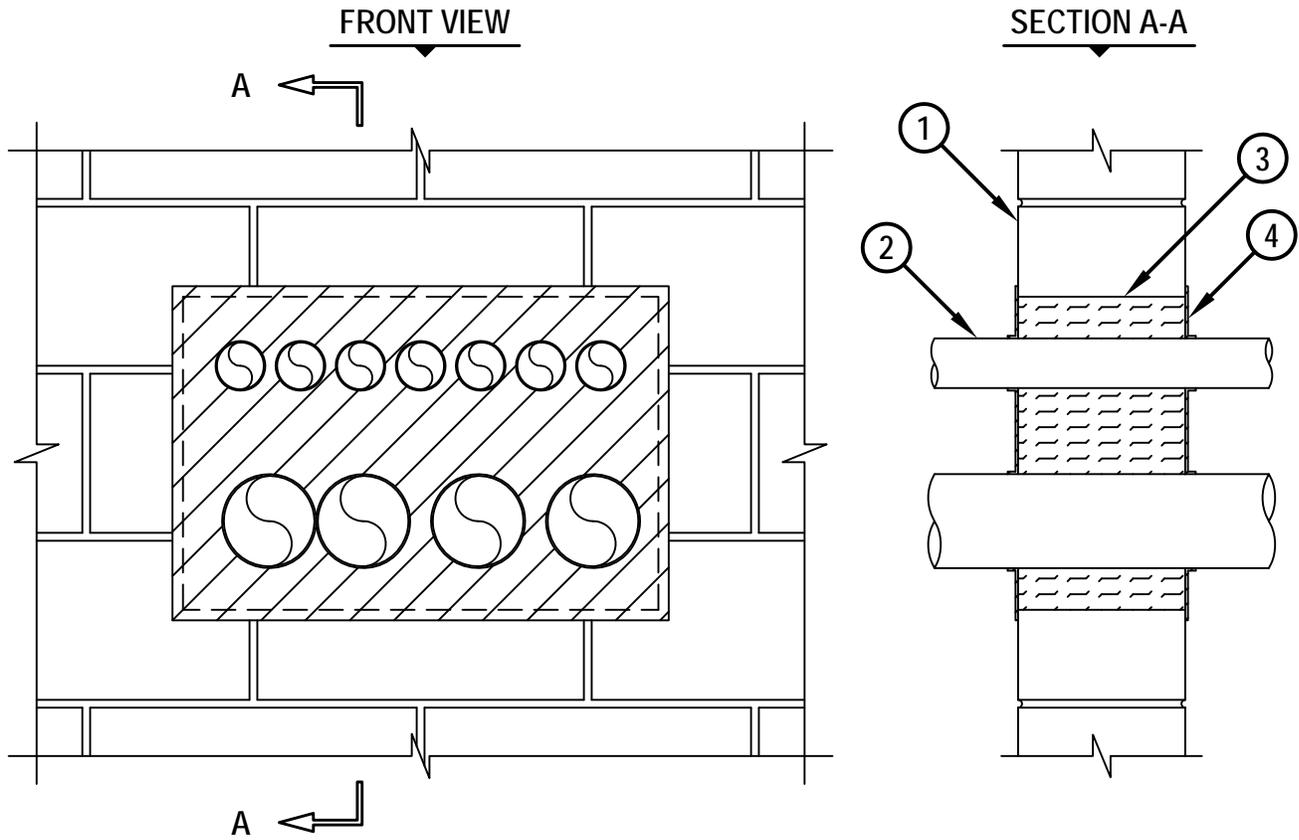


MULTIPLE METAL PIPES THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR.
T-RATING = 1/4-HR.

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1. CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING) :
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
 - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. ONE OR MORE OF THE FOLLOWING PENETRANTS :
 - A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 5 OR HEAVIER).
 - B. MAXIMUM 4" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
 - C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
3. MINERAL WOOL (MIN. 4 PCF DENSITY) CUT INTO STRIPS EQUAL TO THICKNESS OF WALL AND TIGHTLY COMPRESSED TO FILL OPENING.
4. MINIMUM 1/8" (WET) THICKNESS HILTI CFS-SP WB FIRESTOP JOINT SPRAY OR HILTI CP 672 SPEED SPRAY TO COMPLETELY COVER MINERAL WOOL, OVERLAPPING MINIMUM 1/2" ONTO PENETRANT(S) AND CONCRETE WALL.

NOTES : 1. MAXIMUM SIZE OF OPENING = 22-3/4" x 15".
 2. ANNULAR SPACE BETWEEN PENETRANTS AND PERIPHERY OF OPENING = MINIMUM 0", MAXIMUM 1-3/4".
 3. ANNULAR SPACE BETWEEN PENETRANTS = MINIMUM 1/4", MAXIMUM 5-1/2".



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Sheet	1 of 1
Scale	7/64" = 1"
Date	June 29, 2010

Drawing No.
**WJ
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