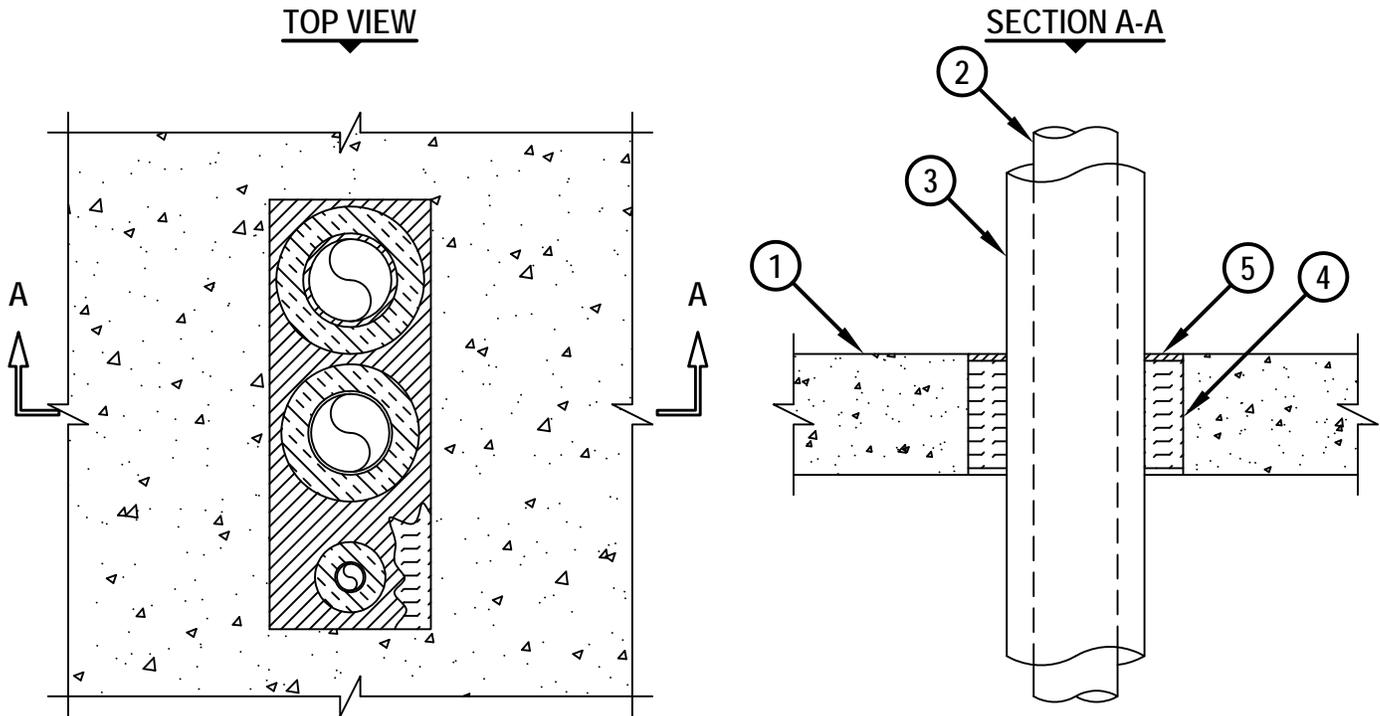


INSULATED METAL PENETRANTS THROUGH CONCRETE FLOOR ASSEMBLY

F-RATING = 2-HR.

T-RATING = 0-HR. OR 1-HR.

FA5032b.010714



1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR ASSEMBLY (MINIMUM 4-1/2" THICK) (2-HR. FIRE-RATING).
2. PENETRANTS TO CONSIST OF ANY OF THE FOLLOWING (MAX. QTY. = 3) :
 - A. MAXIMUM 3" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 5 OR HEAVIER).
 - B. MAXIMUM 3" NOMINAL DIAMETER CAST OR DUCTILE IRON.
 - C. MAXIMUM 3" NOMINAL DIAMETER COPPER PIPE.
3. ONE OF THE FOLLOWING TYPES OF PIPE INSULATION SHALL BE USED ON EACH PENETRANT :
 - A. MAXIMUM 1" THICK GLASS-FIBER PIPE INSULATION WITH AN ALL SERVICE JACKET.
 - B. MAXIMUM 1" THICK AB/PVC PIPE INSULATION.
4. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE FIRESTOP SEALANT.
5. MINIMUM 1/4" DEPTH HILTI CP 604 SELF-LEVELING FIRESTOP SEALANT, HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT, OR HILTI CFS-S SIL SL FIRESTOP SILICONE SEALANT FLUSH WITH TOP SURFACE OF FLOOR.

NOTES : 1. MAXIMUM SIZE OF OPENING = 6" x 16".
 2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 2".
 3. WHEN PIPE COVERING IS LESS THAN 1" THICK, THE T-RATING IS 0-HR.



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Sheet	1 of 1
Scale	9/64" = 1"
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Drawing No.
FA 5032b