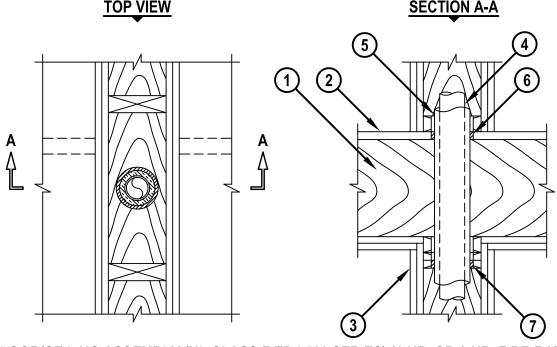
UL/cUL SYSTEM NO. F-C-5004

INSULATED METAL PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 1-HR. OR 1-3/4-HR.
L-RATING AT AMBIENT = 4 CFM / SQ FT
L-RATING AT 400° F = LESS THAN 1 CFM / SQ FT

FC5004q.1012



- 1. WOOD FLOOR/CEILING ASSEMBLY (UL CLASSIFIED L500 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
- 2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
- 3. [OPTIONAL] GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN) CONSISTING OF NOMINAL 2" x 6" OR PARALLEL 2" x 4" LUMBER PLATES TIGHTLY BUTTED AND STUDS.
- 4. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
 - A. MAXIMUM 2" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 2" NOMINAL DIAMETER COPPER PIPE.
- 5. PIPE INSULATION TO BE ONE OF THE FOLLOWING:
 - A. NOMINAL 1/2" THICK GLASS-FIBER PIPE INSULATION.
 - B. NOMINAL 3/4" THICK AB/PVC FLEXIBLE FOAM PIPE INSULATION.
- 6. MINIMUM 3/4" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE OF CHASE WALL.
- 7. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT FLUSH WITH BOTTOM SURFACE OF CEILING OR LOWER TOP PLATE.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 3-1/2".

2. ANNULAR SPACE = 1/8" WHEN GLASS-FIBER PIPE INSULATION IS USED, MINIMUM 1/8", MAXIMUM 3/8" WHEN AB/PVC PIPE INSULATION IS USED.



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Scale	7/64" = 1"
Date	Oct. 12, 2016

FC 5004a