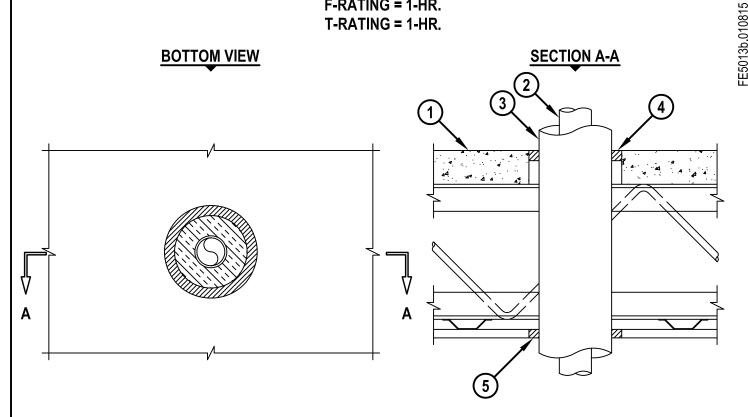
UL/cUL SYSTEM NO. F-E-5013

INSULATED METAL PIPE THROUGH CONCRETE FLOOR/CEILING ASSEMBLY

F-RATING = 1-HR. T-RATING = 1-HR.



- 1. CONCRETE AND STEEL JOIST FLOOR/CEILING ASSEMBLY (UL/cul classified G500 SERIES) (1-HR. FIRE-RATING).
- 2. 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.
- 3. NOMINAL 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
- 4. MINIMUM 3/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- 5. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.

NOTES: 1. DIAMETER OF OPENING TO BE 1-1/2" LARGER THAN OUTSIDE DIAMETER OF INSULATED METAL PIPE.

2. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 1".



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Sheet	1 of 1
Scale	9/64" = 1"
Date	Jan. 08, 2015

Drawing No. FE 5013b