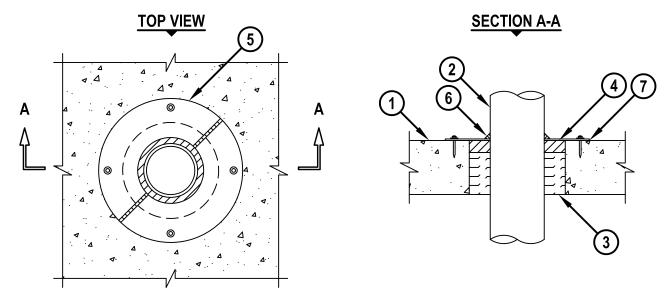
UL/cUL SYSTEM NO. C-BJ-1034

METALLIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F-RATING = 4-HR. T-RATING = 0-HR.



- 1. CONCRETE FLOOR OR WALL ASSEMBLY (4-HR. FIRE-RATING) :
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 5-1/2" THICK).
 - B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
 - C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
- 2. PENETRATING ITEM TO BE ANY ONE OF THE FOLLOWING:
 - A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
 - B. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
 - C. MAXIMUM 4" NOMINAL DIAMETER EMT.
- 3. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
- 4. MINIMUM 1" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- 5. MINIMUM 18 GA. SHEET METAL COVER PLATE SECURELY ATTACHED WITH HILTI POWDER ACTUATED FASTENERS (X-ZF 27 PINS).
- 6. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT AT INTERFACE BETWEEN COVER PLATE AND PIPE.
- 7. SEE NOTE NO. 3 BELOW.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 10-1/2".

- 2. ANNULAR SPACE = MINIMUM 3/4", MAXIMUM 3".
- 3. PROVIDE A GENEROUS BEAD OF HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT ALONG EDGE OF COVER PLATE.
- 4. INSIDE DIAMETER OF STEEL PLATE SHOULD BE SAME AS PIPE OUTSIDE DIAMETER. OUTSIDE DIAMETER OF STEEL PLATE IS TO BE SIZED MINIMUM 1-1/2" LARGER THAN PERIPHERY OF OPENING.



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Scale	1/8" = 1"
Date	Jan. 06, 2015

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