UL/cUL SYSTEM NO. C-AJ-1449

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F-RATING = 3-HR. T-RATING = 0-HR. W-RATING = CLASS I

TOP VIEW

SECTION A-A

4

4

3

- 1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
 - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL (SOLID OR FILLED).
- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
 - A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
 - B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
 - C. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR TUBING.
 - D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
 - E. MAXIMUM 4" NOMINAL DIAMETER EMT.
- 3. MINIMUM 2" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE FIRE FOAM.
- 4. MINIMUM 2-1/2" DEPTH HILTI CP 620 FIRE FOAM, FLUSH WITH TOP SURFACE OF FLOOR.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 18".

- 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 5-1/4".
- 3. MINIMUM 2-1/2" DEPTH HILTI CP 620 FIRE FOAM IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.



HILTI, Inc. Tulsa, Oklahoma USA (918) 252-6000 Scale 9/64" = 1"

Date Oct. 18, 2004

CAJ 1449c

Saving Lives through Innovation and Education