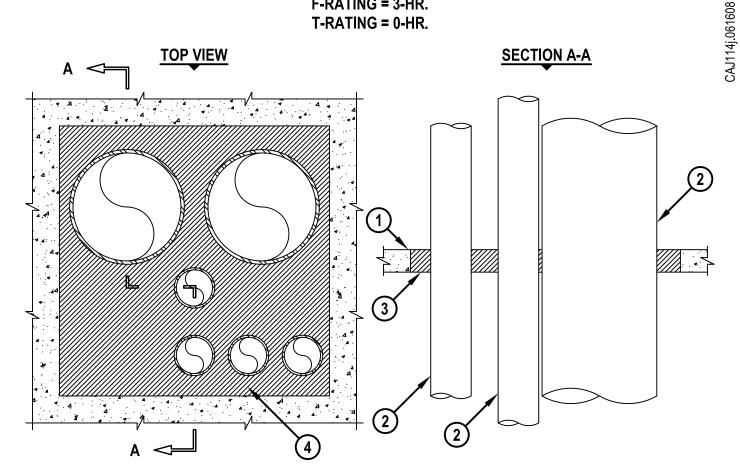
UL/cUL SYSTEM NO. C-AJ-1140

MULTIPLE METAL PIPES THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F-RATING = 3-HR. T-RATING = 0-HR.



- 1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 2-1/2" THICK).
 - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
- 2. ONE OR MORE OF THE FOLLOWING PENETRATING ITEMS MAY BE INSTALLED WITHIN THE OPENING:
 - A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE, STEEL CONDUIT, OR EMT.
- 3. [FORMING NOT SHOWN] USE A RIGID BOARD MATERIAL TO SUPPORT HILTI CP 637 FIRESTOP MORTAR DURING ITS INITIAL CURE (MINIMUM 24 HOURS) (SEE NOTE NO. 5 BELOW).
- 4. MINIMUM 2-1/2" DEPTH HILTI CP 637 FIRESTOP MORTAR.

NOTES: 1. MAXIMUM AREA OF OPENING = 1024 SQ. IN. WITH A MAXIMUM DIMENSION OF 32".

- 2. MINIMUM CLEARANCE BETWEEN PIPES = 0".
- 3. MINIMUM CLEARANCE BETWEEN 4" PIPES (OR SMALLER) AND PERIPHERY OF OPENING = 0".
- 4. MINIMUM CLEARANCE BETWEEN PIPES LARGER THAN 4" AND PERIPHERY OF OPENING = 1".
- 5. AS AN ALTERNATE TO RIGID BOARD MATERIAL, MINERAL WOOL MAY BE USED IN FLOORS GREATER THAN 2-1/2" THICK, THE MINERAL WOOL IS TO BE TIGHTLY PACKED WITHIN THE OPENING AS TEMPORARY OR PERMANENT FORMING AND RECESSED FROM TOP SURFACE OF CONCRETE FLOOR TO ACCOMMODATE FIRESTOP MORTAR.



HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000

Sheet	1 of 1
Scale	3/32" = 1"
Date	June 16, 2008

Drawing No. 1140