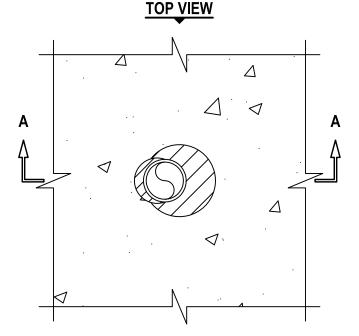
UL SYSTEM NO. C-AJ-2647

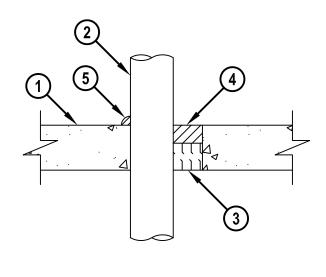
PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR. T-RATING = 1/2-HR.

L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

SECTION A-A





- 1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 2-1/2" THICK).
 - B. STEEL FLOOR UNIT/FLOOR ASSEMBLY LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 2-1/2" THICK) OVER METAL DECKING.
 - C. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 3-1/2" THICK).
 - D. ANY UL CLASSIFIED CONCRETE BLOCK WALL.
- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (CLOSED PIPING SYSTEMS ONLY):
 - A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE) (SCH 40).
 - B. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SDR 13.5).
 - C. MAXIMUM 2" NOMINAL DIAMETER RIGID NONMETALLIC PVC CONDUIT (RNC) (SCH 40).
 - D. MAXIMUM 2" NOMINAL DIAMETER ENT.
 - E. MAXIMUM 1" NOMINAL DIAMETER PEX TUBING (SDR 9).
- 3. MINIMUM 1-1/2" 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 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 4".

- 2. ANNULAR SPACE = MINIMUM 0". MAXIMUM 1-5/8".
- 3. MINIMUM 1" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON EACH SIDE OF A WALL ASSEMBLY.



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

Sheet	1 of 1
Scale	3/16" = 1"
Date	Jan. 05, 2015

CAJ 2647b