cUL SYSTEM NO. C-AJ-2023



SUL CAJ2023e.011715

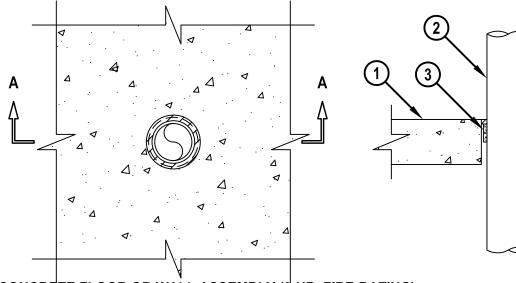
PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR.

FT, FH AND FTH-RATING = 0-HR.

NOTE: TESTED WITH A 50 Pa PRESSURE DIFFERENTIAL

TOP VIEW SECTION A-A



- 1. CONCRETE FLOOR OR WALL ASSEMBLY (2-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. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
 - A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
 - B. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY).
 - C. MAXIMUM 2" NOMINAL DIAMETER AQUARISE CPVC PLASTIC PIPE (SDR 11) MANUFACTURED BY IPEX, INC. (CLOSED PIPING SYSTEM ONLY).
- 3. HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK x 1" WIDE) WRAPPED CONTINUOUSLY AROUND THE OUTER CIRCUMFERENCE OF THE PIPE, COVERING ONE TIME, WITH WITH ENDS BUTTED AND HELD IN PLACE WITH TAPE. WRAP STRIP TO BE INSERTED INTO ANNULAR SPACE AND RECESSED TO ACCOMMODATE FIRESTOP SEALANT.
- 4. MINIMUM 1/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 3".

- 2. ANNULAR SPACE = 5/16".
- 3. HILTI CP 648E WRAP STRIP(S) AND HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT ARE REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.
- 4. CLOSED OR VENTED PIPING SYSTEM (PVC = SCHEDULE 40, CPVC = SDR 11 OR 13.5).
- 5. AS AN ALTERNATE TO HILTI CP 648E WRAP STRIP, HILTI CP 648S/1.5" OR CP 648S/2" WRAP STRIP MAY BE USED ON 1-1/2" AND 2" PIPES, RESPECTIVELY. WRAP HILTI CP 648S WRAP STRIP AROUND THE CIRCUMFERENCE OF THE PIPE AND HOLD IN PLACE WITH INTEGRATED TAPE. WRAP STRIP TO BE SLID INTO ANNULAR SPACE AND RECESSED TO ACCOMMODATE FIRESTOP SEALANT.



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| Sheet | 1 of 1 |
|-------|---------------|
| Scale | 3/16" = 1" |
| Date | Jan. 17, 2015 |

CUL CAJ2023e