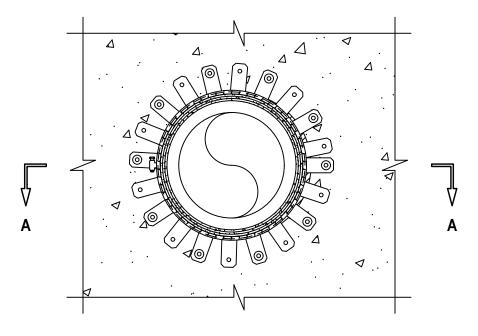
## UL SYSTEM NO. C-AJ-2937

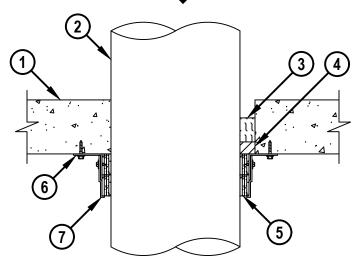
# PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL ASSEMBLY

F-RATING = 2-HR. T-RATING = 2-HR. BOTTOM VIEW





## **SECTION A-A**





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Scale	1/8" = 1"
Date	Nov. 21, 2022

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#### **UL SYSTEM NO. C-AJ-2937**

### PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL ASSEMBLY

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

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- 1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING):
  - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
  - **B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.**
- 2. MAXIMUM 10" NOMINAL DIAMETER HIGH DENSITY POLYETHYLENE (HDPE) PLASTIC PIPE (SDR 11) (CLOSED PIPING SYSTEM).
- 3. MINIMUM 2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED, RECESSED TO ACCOMMODATE SEALANT.
- 4. MINIMUM 1" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
- 5. HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK X 1-3/4" WIDE) CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE, COVERING FOUR TIMES, WITH ENDS BUTTED AND HELD IN PLACE WITH TAPE. BUTTED ENDS IN SUCCESSIVE LAYER SHALL BE OFFSET. TWO STACKS OF 4 LAYERS SHALL BE INSTALLED AND BUTTED TIGHTLY TO BOTTOM SURFACE OF FLOOR.
- 6. FIRST HILTI RETAINING COLLAR SHALL BE WRAPPED AROUND TOP LAYER OF WRAP STRIPS WITH ENDS OVERLAPPING 2" AND SECURED WITH TWO NO. 8 SHEET METAL SCREWS. SECURE EVERY OTHER TAB TO BOTTOM SURFACE OF FLOOR WITH 1-1/4" LONG CONCRETE SCREW ANCHORS AND 1-1/4" WASHERS OR 1/4 IN. DIAMETER BY 1-7/8 IN. LONG STEEL CONCRETE SCREWS.
- 7. SECOND HILTI RETAINING COLLAR SHALL BE WRAPPED AROUND BOTTOM LAYER OF WRAP STRIPS WITH ENDS OVERLAPPING 2" AND SECURED WITH FOUR NO. 8 SHEET METAL SCREWS. SECURE EVERY OTHER TAB TO FIRST RETAINING COLLAR WITH ONE NO. 8 SHEET METAL SCREW. (SEE NOTE NO. 4 BELOW).

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 12".

- 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-1/4".
- 3. HILTI CP 648E WRAP STRIP WITH RETAINING COLLAR AND HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT ARE REQUIRED ON EACH SIDE OF A WALL.
- 4. [OPTIONAL] SECUREMENT OF ANCHOR TABS ON THE SECOND COLLAR MAY BE ACCOMPLISHED WITH ONE NOMINAL 1/2" WIDE STAINLESS STEEL HOSE CLAMP SECURED OVER ANCHOR TABS AT MID-HEIGHT OF FIRST COLLAR IN PLACE OF SHEET METAL SCREWS.



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 Scale

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