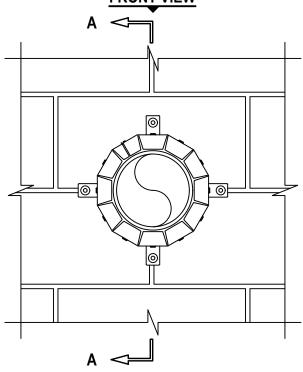
## **UL SYSTEM NO. W-J-2337**

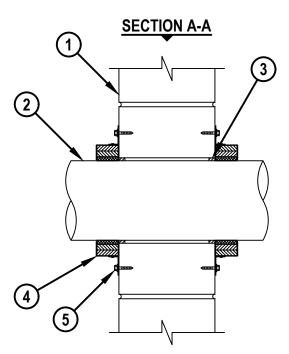
# PLASTIC PIPE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR.

T-RATING = 0-HR., 1-HR., OR 2-HR. L-RATING AT AMBIENT = 3 CFM / SQ FT L-RATING AT 400° F = LESS THAN 1 CFM / SQ FT

**FRONT VIEW** 







HILTI, Inc. Plano, Texas USA (800) 879-8000

| Sheet | 1 of 2        |
|-------|---------------|
| Scale | 1/8" = 1"     |
| Date  | Apr. 29, 2024 |

WJ 2337d

Saving Lives through Innovation and Education

# VJ2337d.042924

### **UL SYSTEM NO. W-J-2337**

# PLASTIC PIPE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR.

T-RATING = 0-HR., 1-HR., OR 2-HR. L-RATING AT AMBIENT = 3 CFM / SQ FT L-RATING AT 400° F = LESS THAN 1 CFM / SQ FT

- 1. CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING) :
  - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
  - **B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.**
- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 3 BELOW):
  - A. MAXIMUM 10" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
  - B. MAXIMUM 10" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
  - C. MAXIMUM 6" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).
  - D. MAXIMUM 6" NOMINAL DIAMETER FRPP PLASTIC PIPE.
  - E. MAXIMUM 4" NOMINAL DIAMETER PVDF PLASTIC PIPE.
  - F. MAXIMUM 4" NOMINAL DIAMETER CROSS-LINKED POLYETHYLENE (PEX) TUBING (SDR 9) (AQUAPEX OR WIRSBO HEPEX BY UPONOR) (CLOSED PIPING SYSTEM ONLY).
- 3. HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT:
  - A. [OPTIONAL] MINIMUM 1/4" DEPTH OF SEALANT INSTALLED ON PIPES NOMINAL 6" AND SMALLER. EXCEPTION: WHEN ITEM 3F IS INSTALLED, SEALANT IS REQUIRED.
  - B. MINIMUM 1/2" DEPTH OF SEALANT INSTALLED ON PIPES LARGER THAN NOMINAL 6".
- 4. HILTI CP 643N OR CP 644 FIRESTOP COLLAR WITH FASTENING HOOKS (SEE TABLE BELOW).
- 5. EACH FASTENING HOOK SECURED TO WALL ASSEMBLY WITH 1/4" x 1-3/4" LONG STEEL EXPANSION BOLTS IN CONJUNCTION WITH 3/4" DIAMETER STEEL WASHERS (EX. HILTI KWIK-BOLT 3).

| NOMINAL PIPE DIAMETER | PRODUCT DESCRIPITION | NO. OF FASTENING HOOKS | MAXIMUM HOLE SIZE |
|-----------------------|----------------------|------------------------|-------------------|
| 1-1/2"                | CP 643 50/1.5" N     | 2                      | 2-1/8"            |
| 2"                    | CP 643 63/2" N       | 2                      | 2-5/8"            |
| 3"                    | CP 643 90/3" N       | 3                      | 4"                |
| 4"                    | CP 643 110/4" N      | 3                      | 5"                |
| 6"                    | CP 643 160/6" N      | 4                      | 7"                |
| 8"                    | CP 644 200/8"        | 10                     | 9-1/2"            |
| 10"                   | CP 644 250/10"       | 12                     | 11-1/2"           |

NOTES: 1. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".

- 2. CLOSED OR VENTED PIPING SYSTEM (PVC, ABS, FRPP = SCHEDULE 40; CPVC = SDR 13.5; PVDF = SDR 32.5).
- 3. L-RATINGS ONLY APPLY ON PIPES NOMINAL 6" AND SMALLER, WHEN HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT IS USED.



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