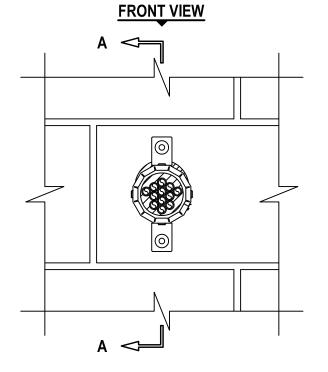
UL SYSTEM NO. W-J-2238

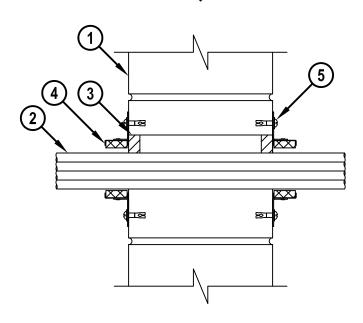
MULTIPLE PLASTIC PIPE THROUGH CONCRETE WALL OR CONCRETE BLOCK WALL ASSEMBLY

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

SECTION A-A

WJ2238a 051811





- 1. CONCRETE FLOOR ASSEMBLY (2-HR. FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
 - **B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.**
- 2. ONE OR MORE MAXIMUM 1/2" DIAMETER DURA-LINE MICRO DUCT (MINIMUM 0.057" WALL THICKNESS)
 MANUFACTURED BY A-D TECHNOLOGIES (CLOSED PIPING SYSTEM) (MAX. QTY. = 12, TIGHTLY BUNDLED).
- 3. MINIMUM 5/8" DEPTH HILTI CP 618 FIRESTOP PUTTY STICK.
- 4. HILTI CP 643N/2" FIRESTOP COLLAR WITH FASTENING HOOKS.
- 5. ATTACH EACH FASTENING HOOK TO WALL ASSEMBLY WITH MINIMUM 3/16" DIAMETER BY MINIMUM 1-1/4" LONG STEEL ANCHORS WITH MINIMUM 3/4" DIAMETER STEEL WASHERS.

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

- 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1".
- 3. [NOT SHOWN] MINIMUM 1/2" BEAD HILTI CP 618 FIRESTOP PUTTY STICK APPLIED AT POINT OF CONTACT. PRIOR TO INSTALLATION OF FIRESTOP COLLAR.



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

Sheet	1 of 1
Scale	3/16" = 1"
Date	May 18, 2011

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