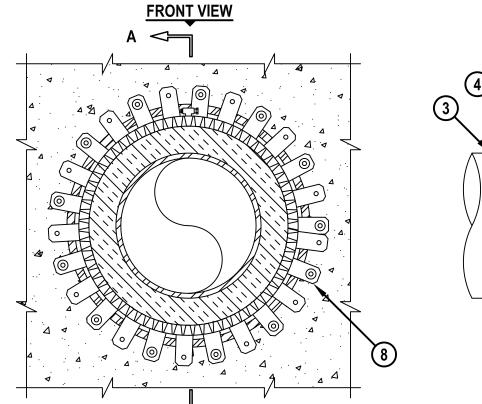
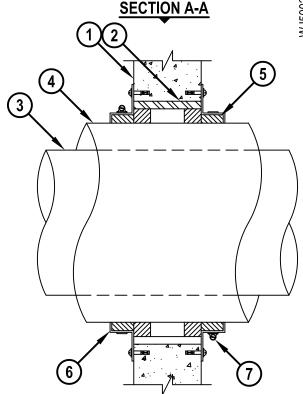
UL/cUL SYSTEM NO. W-J-5003

INSULATED METAL PIPE THROUGH CONCRETE WALL OR BLOCK WALL

F-RATING = 2-HR. T-RATING = 1-3/4-HR.





- 1. CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING) :
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
 - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
- 2. [OPTIONAL] MAXIMUM 18" NOMINAL DIAMETER STEEL SLEEVE (SCHEDULE 40).
- 3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
 - A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR COPPER TUBING.
- 4. NOMINAL 2" THICKNESS GLASS-FIBER PIPE INSULATION.
- 5. MINIMUM 1-1/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- 6. HILTI RETAINING COLLAR COMPLETELY FILLED WITH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- 7. NOMINAL 1/2" WIDE STAINLESS STEEL HOSE CLAMP FASTENED TO MID-HEIGHT OF RETAINING COLLAR.
- 8. ATTACH EVERY OTHER TAB WITH APPROPRIATE HILTI FASTENERS (SEE NOTE NO. 3 BELOW).

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 18".

- 2. ANNULAR SPACE = MINIMUM 1", MAXIMUM 1-1/8".
- 3. FASTENERS: FOR CONCRETE WALLS USE EITHER 1/4" HILTI KWIK-BOLT II OR POWDER ACTUATED FASTENERS (X-ZF 27 PINS WITH STEEL WASHERS). FOR CONCRETE BLOCK WALLS, USE HILTI SLEEVE ANCHORS.



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

Sheet	1 of 1
Scale	9/64" = 1"
Date	Jan. 09, 2015

WJ 5003f