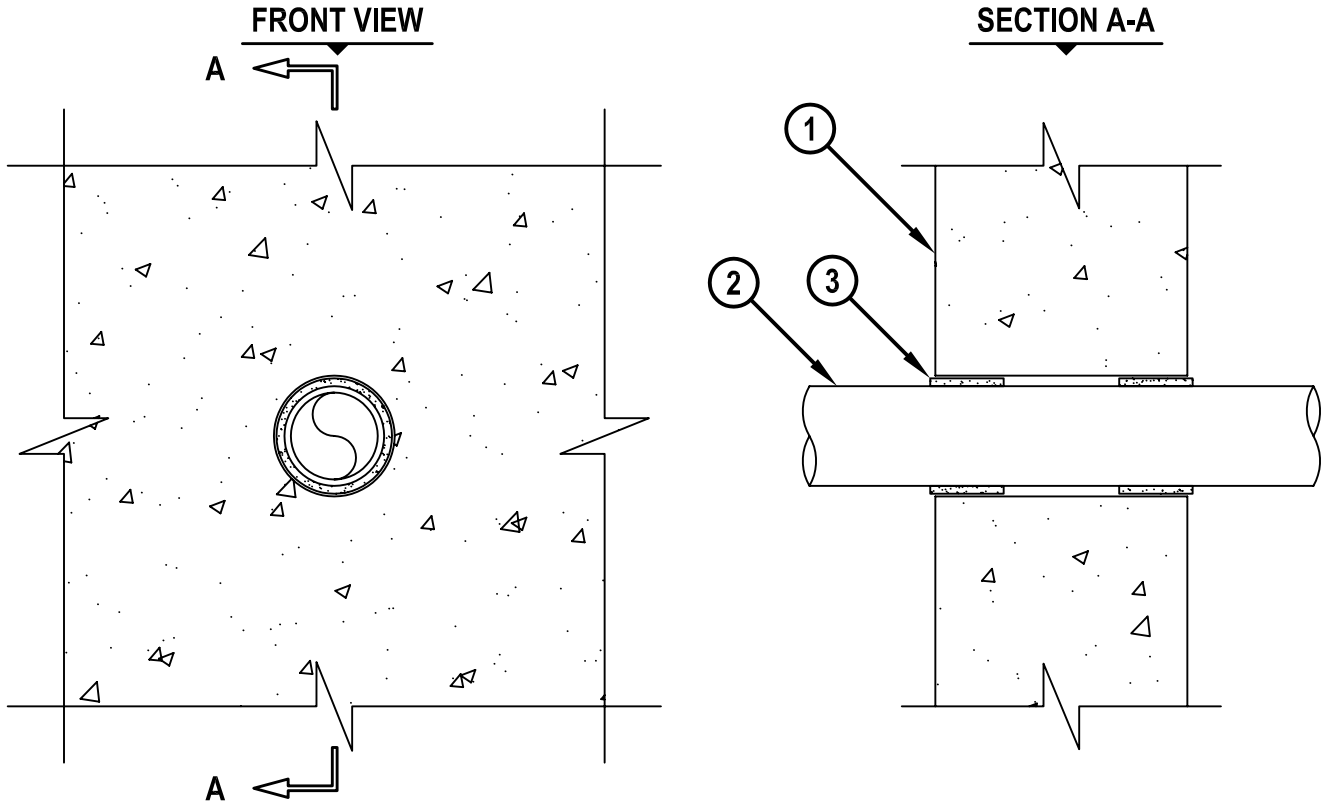


# PLASTIC PIPE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

F AND FH-RATING = 2-HR.  
 FT AND FTH-RATING = 1-HR.

NOTE : TESTED WITH A 50 Pa PRESSURE DIFFERENTIAL

cULWJ2012b.052705



1. CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING) :
  - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
  - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (SOLID CORE).
3. HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK x 1-3/4" WIDE) CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE, COVERING ONE TIME, WITH ENDS BUTTED AND HELD IN PLACE WITH TAPE. WRAP STRIP TO BE SLID INTO ANNULAR SPACE, SUCH THAT 1/8" OF THE WRAP STRIP PROTRUDES FROM THE WALL SURFACE. WRAP STRIPS REQUIRED ON BOTH SIDES OF THE WALL.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 3-1/4".  
 2. AS AN ALTERNATE TO ITEM NO. 3 ABOVE, TWO LAYERS OF HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK x 1" WIDE) MAY BE INSTALLED.  
 3. ANNULAR SPACE = NOMINAL 1/4" FOR ONE WRAP, NOMINAL 1/2" FOR TWO WRAPS.  
 4. VENTED PIPING SYSTEM (PVC = SCHEDULE 40).



HILTI, Inc.  
 Tulsa, Oklahoma USA (918) 252-6000

Sheet	1 of 1
Scale	7/32" = 1"
Date	MAY 27, 2005

Drawing No.  
**cUL**  
**WJ2012b**