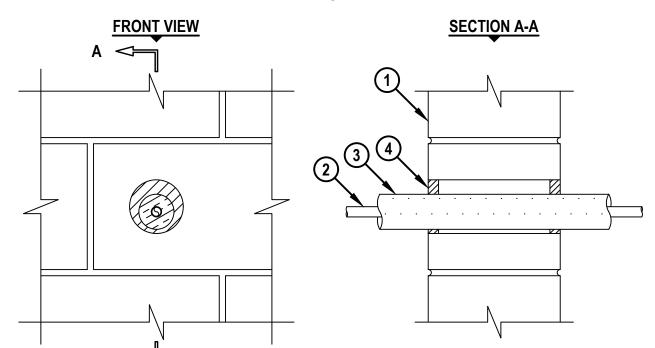
## **UL SYSTEM NO. W-J-5190**

## INSULATED PLASTIC PIPE THROUGH CONCRETE WALL OR CONCRETE BLOCK WALL ASSEMBLY

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



- 1. CONCRETE WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING) :
  - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
  - **B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.**
- 2. MAXIMUM 1/2" NOMINAL DIAMETER DIAMETER PEX TUBING (SDR 9) (CLOSED PIPING SYSTEM ONLY).
- 3. NOMINAL 3/4" THICK AB/PVC PIPE INSULATION.
- 4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 3-1/4".

2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 7/8".



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Sheet	1 of 1
Scale	11/64" = 1"
Date	Sep. 11, 2017

WJ 5190a

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