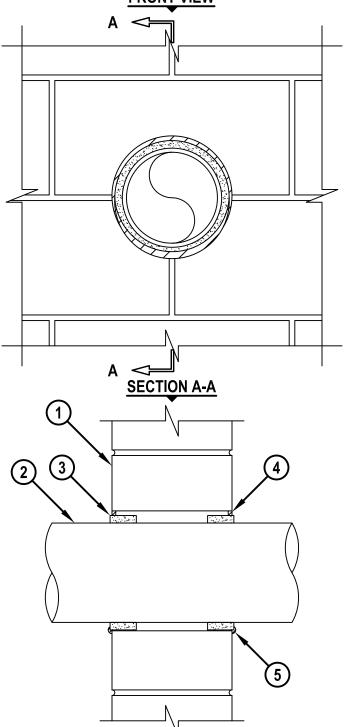
## **UL SYSTEM NO. W-J-2205**

## PLASTIC PIPE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR., 1/2-HR. OR 3/4-HR.
L-RATING AT AMBIENT = 1.2 CFM / SQ FT
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT
FRONT VIEW





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

Sheet	1 of 2
Scale	5/32" = 1"
Date	Jan. 09, 2015

WJ 2205b

WJ2205b.010915

Saving Lives through Innovation and Education

## **UL SYSTEM NO. W-J-2205**

## PLASTIC PIPE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

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NJ2205b.010915

- 1. CONCRETE WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING):
  - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
  - B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
  - A. MAXIMUM 6" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
  - B. MAXIMUM 4" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).
  - C. MAXIMUM 6" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM).
- 3. HILTI CP 648S FIRESTOP WRAP STRIP WRAPPED CONTINUOUSLY AROUND CIRCUMFERENCE OF PIPE AND SECURED IN PLACE WITH INTEGRATED FASTENING TAPE, SUCH THAT THE WRAP STRIP PROTRUDES 1/8" FROM WALL SURFACE.
- 4. MINIMUM 1/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT (OPTIONAL IN 1-HR. WALLS ON PIPES 4" OR SMALLER, AND IN 2-HR. WALLS ON PIPES 3" AND SMALLER).
- 5. MINIMUM 1/4" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT AT WRAP STRIP/CONCRETE WALL INTERFACE (OPTIONAL IN 1-HR. WALLS ON PIPES 4" OR SMALLER, AND IN 2-HR. WALLS ON PIPES 3" AND SMALLER).

NOMINAL PIPE		PRODUCT		ANNULAR SPACE	
DIAMETER		DESCRIPTION		MINIMUM	MAXIMUM
1-1/2"	ALL	CP 648S - 1.5"	2-3/8"	3/16"	5/16"
2"	ALL	CP 648S - 2"	3"	3/16"	5/16"
3"	ALL	CP 648S - 3"	4"	3/16"	5/16"
4"	ALL	CP 648S - 4"	5-3/8"	3/8"	1/2"
6"	PVC AND CPVC	CP 648S -6"	8"	9/16"	13/16"

NOTES: 1. CLOSED OR VENTED PIPING SYSTEM (PVC, ABS = SCHEDULE 40; CPVC = SDR 13.5).

2. L-RATINGS ONLY APPLY WHEN HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT IS USED.

Hilti Fire	stop Systems

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Scale	-
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