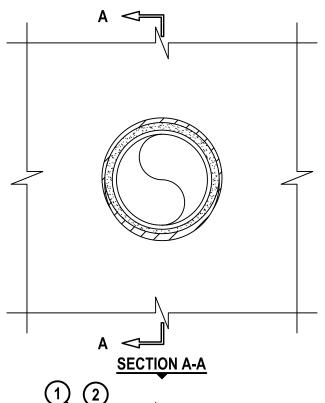
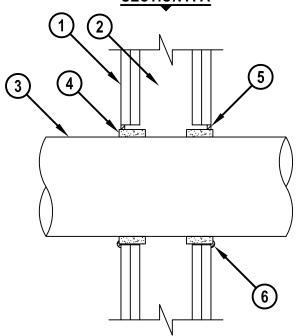
UL SYSTEM NO. W-L-2406

PLASTIC PIPE THROUGH GYPSUM 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. 12, 2015

WL 2406d

WL2406d 011215

Saving Lives through Innovation and Education

2406d 01121F

UL SYSTEM NO. W-L-2406

PLASTIC PIPE THROUGH GYPSUM 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

- 1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
- 2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" X 4" LUMBER. STEEL STUDS TO BE MINIMUM 3-1/2" WIDE.
- 3. 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).
- 4. 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.
- 5. 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).
- 6. MINIMUM 1/4" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT AT WRAP STRIP/GYPSUM WALL INTERFACE (OPTIONAL IN 1-HR. WALLS ON PIPES 4" OR SMALLER, AND IN 2-HR. WALLS ON PIPES 3" AND SMALLER).

NOMINAL PIPE	TYPE OF PIPE	PRODUCT MAXIMUM DIAMETER DESCRIPTION OF OPENING	ANNULAR SPACE		
DIAMETER	ETER TYPE OF PIPE		OF OPENING	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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Sheet	2 of 2
Scale	-
Date	Jan. 12, 2015

WL 2406d