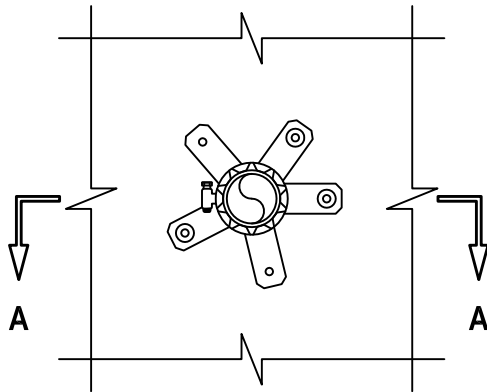
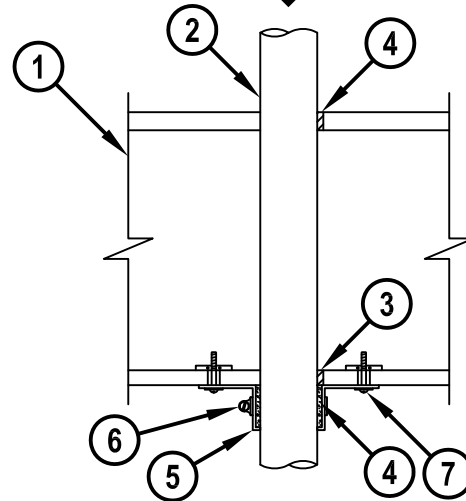


# PLASTIC PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY

F, FT, FH, AND FTH-RATINGS = 1-HR.

NOTE : TESTED WITH A 50 Pa PRESSURE DIFFERENTIAL

**BOTTOM VIEW**

**SECTION A-A**


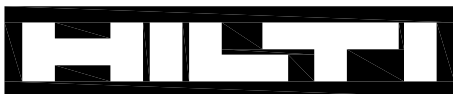
1. WOOD FLOOR/CEILING ASSEMBLY (UL/cUL CLASSIFIED L500 SERIES) (1-HR. FIRE-RATING).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 3 BELOW) :
  - A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR AND SOLID CORE).
  - B. MAXIMUM 2" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR AND SOLID CORE).
  - C. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY).
  - D. MAXIMUM 2" NOMINAL DIAMETER AQUARISE CPVC PLASTIC PIPE (SDR 11) MANUFACTURED BY IPEX, INC. (CLOSED PIPING SYSTEM ONLY).
3. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT AT CEILING.
4. MINIMUM 3/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT AT SUBFLOOR.
5. HILTI CP 648E WRAP STRIP CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE (SIZE OF WRAP STRIP AND NUMBER OF LAYERS ARE SHOWN IN THE TABLE BELOW) WITH ENDS BUTTED AND HELD IN PLACE WITH TAPE. WRAP STRIP TO BE BUTTED TIGHTLY AGAINST BOTTOM SURFACE OF GYPSUM CEILING.
6. HILTI RETAINING COLLAR (SIZED TO MATCH WRAP STRIP) WRAPPED OVER THE WRAP STRIPS, OVERLAPPING MINIMUM 1".
7. NOMINAL 1/2" WIDE STAINLESS STEEL HOSE CLAMP FASTENED AT MID-HEIGHT OF RETAINING COLLAR.
8. EVERY OTHER TAB OF RETAINING COLLAR SECURED TO GYPSUM CEILING WITH HILTI 1/4" x 1-1/2" LONG STEEL TOGGLER BOLTS IN CONJUNCTION WITH 3/4" DIAMETER STEEL WASHERS.

MAXIMUM PIPE SIZE	FIRESTOP PRODUCT	NUMBER OF LAYERS
2"	CP 648E W25/1"	2
2"	CP 648E W45/1-3/4"	1

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 2-5/8".

2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

3. CLOSED OR VENTED PIPING SYSTEM (PVC &amp; ABS = SCHEDULE 40; CPVC = SDR 11 OR 13.5).



Hilti Firestop Systems

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Sheet 1 of 1

Scale 1/8" = 1"

Date Jan. 17, 2015

Drawing No.

**cUL**  
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