

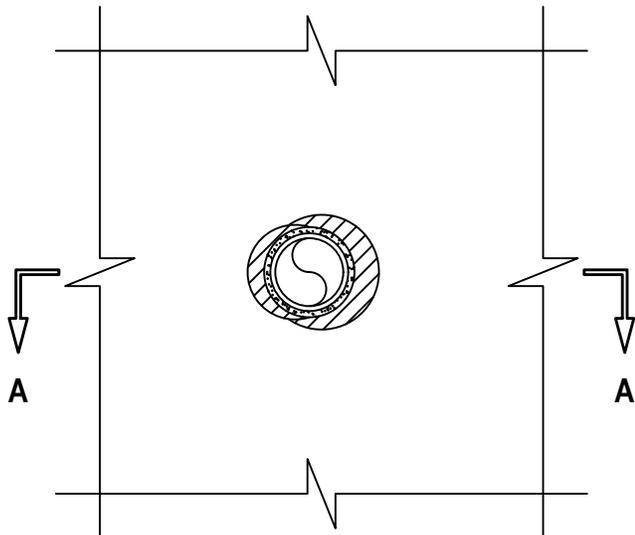
UL/cUL SYSTEM NO. F-C-2524

PLASTIC PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY

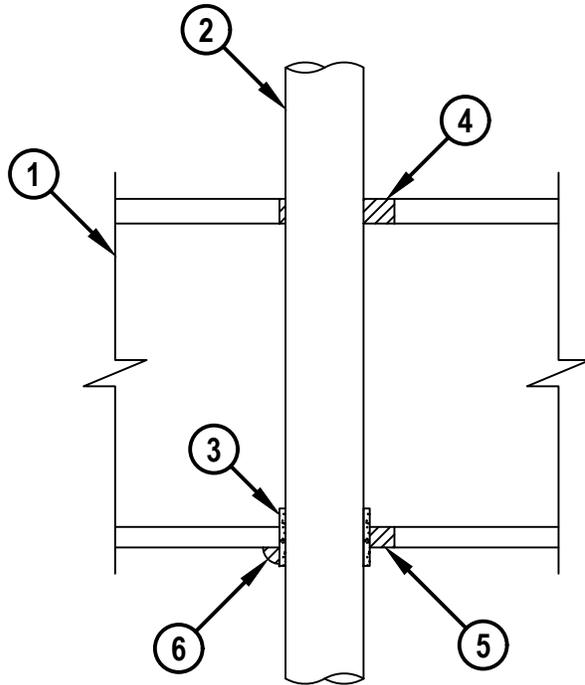
F-RATING = 1-HR.

T-RATING = 1/2-HR. OR 1-HR. (SEE TABLE BELOW)

BOTTOM VIEW



SECTION A-A



FC2524a.080423

1. WOOD FLOOR/CEILING ASSEMBLY (UL/cUL CLASSIFIED L500 SERIES) (1-HR. FIRE-RATING) :
 - A. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
 - B. [OPTIONAL - NOT SHOWN] GYPSUM WALL ASSEMBLY (FIRE-RATED OR NON FIRE-RATED) CONSISTING OF SINGLE NOMINAL 2" x 6" LUMBER PLATES AND STUDS OR DOUBLE NOMINAL 2" x 4" LUMBER PLATES AND STUDS WITH MINIMUM 1/2" THICK GYPSUM BOARD.



HILTI, Inc.
Plano, Texas USA (800) 879-8000

Sheet	1 of 2
Scale	1 1/64" = 1"
Date	Aug. 04, 2023

Drawing No.
**FC
2524a**

Saving Lives through Innovation and Education

PLASTIC PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY

F-RATING = 1-HR.

T-RATING = 1/2-HR. OR 1-HR. (SEE TABLE BELOW)

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2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
 - A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (SCHEDULE 80) (SOLID CORE) (CLOSED OR VENTED PIPING SYSTEM).
 - B. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (SCHEDULE 40) (CELLULAR OR SOLID CORE) (CLOSED OR VENTED PIPING SYSTEM).
 - C. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SCHEDULE 80) (CLOSED OR VENTED PIPING SYSTEM).
 - D. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SCHEDULE 40) (CLOSED OR VENTED PIPING SYSTEM).
 - E. MAXIMUM 2" NOMINAL DIAMETER RNC-PVC CONDUIT (SCHEDULE 80).
 - F. MAXIMUM 2" NOMINAL DIAMETER RNC-PVC CONDUIT (SCHEDULE 40).
3. HILTI CP 648E WRAP STRIP (NOMINAL 3/16" THICK x 1-3/4" WIDE) WRAPPED CONTINUOUSLY AROUND THE OUTER CIRCUMFERENCE OF THE PIPE ONE TIME. WRAP STRIP HELD IN PLACE WITH TAPE AND CENTERED IN THE GYPSUM BOARD CEILING OR, WHEN A CHASE WALL IS PRESENT, INSTALLED IN THE LOWER TOP PLATE SO THAT ONE-HALF OF THE WRAP STRIP LENGTH EXTENDS BELOW THE LOWER TOP PLATE.
4. MINIMUM 3/4" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT FLUSH WITH BOTTOM SURFACE OF CEILING OR LOWER TOP PLATE.
6. MINIMUM 1/2" BEAD HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT APPLIED AT WRAP STRIP/CEILING INTERFACE OR WRAP STRIP/TOP PLATE INTERFACE.

TYPE OF THROUGH PENETRANT	T-RATING, HR.
2A, 2C, 2E	1
2B, 2D, 2F	1/2

**NOTES : 1. MAXIMUM DIAMETER OF OPENING = 3-1/2".
2. ANNULAR SPACE = MINIMUM 3/16", MAXIMUM 15/16".**



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