

**METAL PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY**

F-RATING = 1-HR. OR 2-HR.

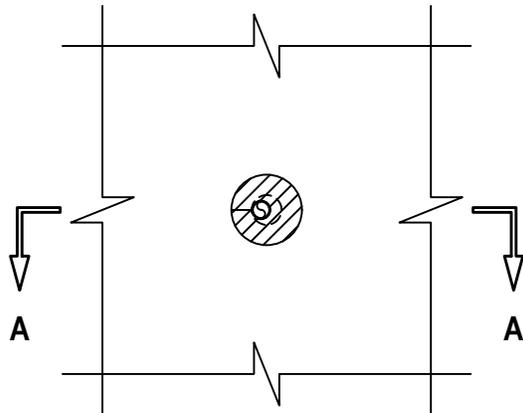
T-RATING = 1-HR. OR 2-HR.

L-RATING AT AMBIENT = LESS THAN 1 CFM / OPENING

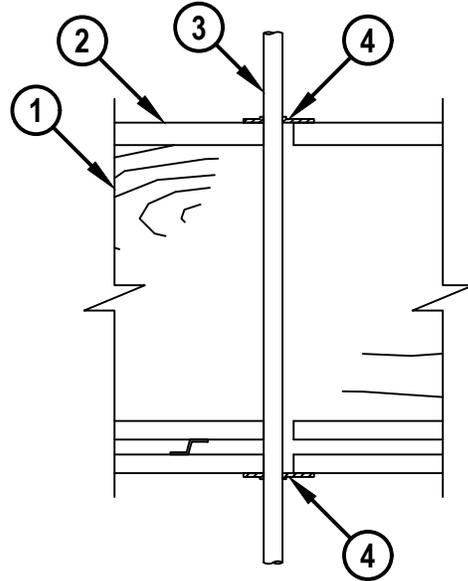
L-RATING AT 400°F = LESS THAN 1 CFM / OPENING

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**BOTTOM VIEW**



**SECTION A-A**



1. WOOD FLOOR/CEILING ASSEMBLY (UL/cUL CLASSIFIED L500 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
  - A. MAXIMUM 3/4" NOMINAL DIAMETER STEEL PIPE (SCH 40 OR HEAVIER).
  - B. MAXIMUM 3/4" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
  - C. MAXIMUM 1/2" NOMINAL DIAMETER COPPER PIPE OR TUBING (TYPE L AND TYPE K OR HEAVIER).
  - D. MAXIMUM 3/4" NOMINAL DIAMETER RIGID OR FLEXIBLE STEEL CONDUIT.
  - E. MAXIMUM 3/4" NOMINAL DIAMETER EMT.
4. HILTI CFS-D 1" FIRESTOP PUTTY DISC PRESSED FIRMLY AROUND THE PIPE LAPPING NOMINAL 5mm ONTO PIPE COMPLETELY COVERING OPENING AND FIRMLY PRESSED TO LAP ONTO THE FLOOR AND CEILING (OR PLATES). DISC SEAM TO BE FIRMLY PRESSED AND SEALED TIGHT.

**NOTES:** 1. OPENING MAY BE ROUND, RECTANGULAR, OR IRREGULAR WITH A MAXIMUM DIAMETER OF DIMENSION OF 1".  
 2. ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING = MINIMUM 0".  
 3. CHASE WALL [NOT SHOWN - OPTIONAL] - THE THROUGH PENETRANT MAY BE ROUTED THROUGH A NON-RATED OR RATED GYPSUM CHASE WALL.



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Sheet	1 of 1
Scale	5/32" = 1"
Date	Aug. 28, 2020

Drawing No.  
**FC  
 1168c**