

UL/cUL SYSTEM NO. W-L-1054

## METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

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

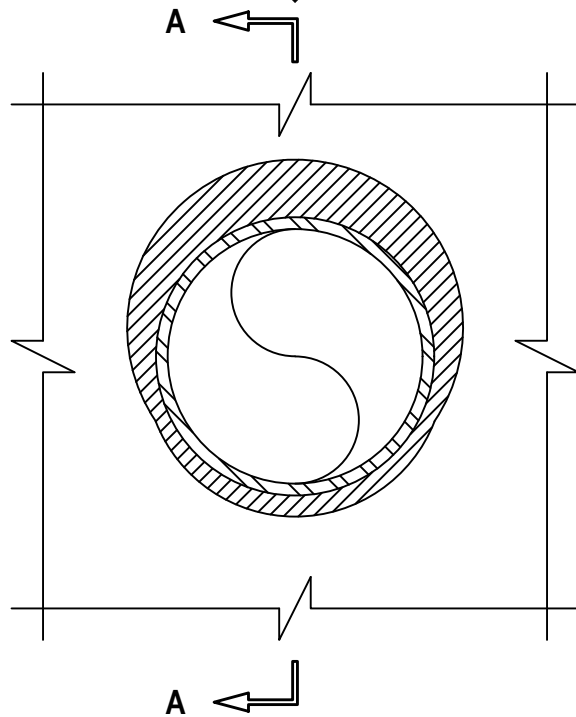
T-RATING = 0-HR. OR 1/2-HR. (SEE NOTES BELOW)

L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT

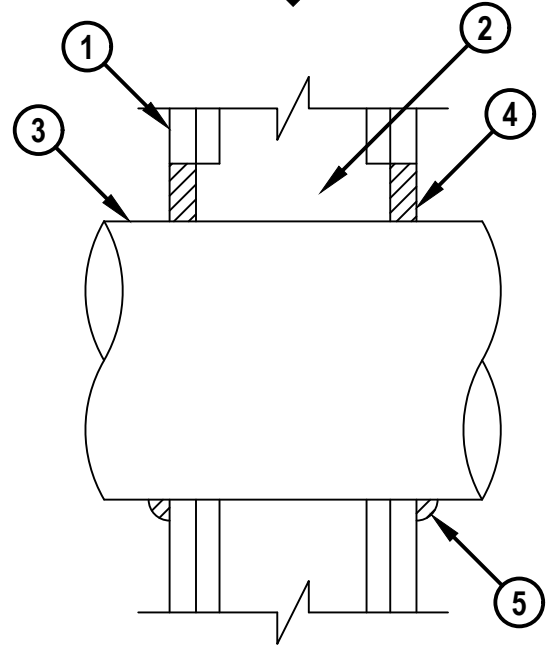
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

WL1054w.030725

FRONT VIEW



SECTION A-A



**HILTI**  
Hilti Firestop Systems

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

Sheet	1 of 2
Scale	7/32" = 1"
Date	Mar. 07, 2025

Drawing No.

**WL**  
**1054w**

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T-RATING = 0-HR. OR 1/2-HR. (SEE NOTES BELOW)

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

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1. GYPSUM WALL ASSEMBLY (UL/cUL 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 2-1/2" WIDE (SEE NOTE BELOW).
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
  - A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
  - B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
  - C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
  - D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
  - E. MAXIMUM 4" NOMINAL DIAMETER STEEL EMT.
  - F. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM EMT.
  - G. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM CONDUIT.
  - H. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM PIPE (SCH. 5 OR HEAVIER)
4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

**NOTES : 1. MAXIMUM DIAMETER OF OPENING :**

A. 32-1/4" FOR STEEL STUD WALLS.

B. 14-1/2" FOR WOOD STUD WALLS.

2. ANNULAR SPACE (PENETRATIONS 3A THROUGH 3E) = MINIMUM 0", MAXIMUM 2-1/4".

3. ANNULAR SPACE (PENETRATIONS 3F THROUGH 3H) = MINIMUM 0", MAXIMUM 1-1/2".

4. PENETRATIONS 3A THROUGH 3E MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.

5. WHEN PENETRATIONS 3F THROUGH 3H ARE INSTALLED, STEEL STUDS TO BE MINIMUM 3-5/8" WIDE.

6. WHEN PENETRATIONS 3F THROUGH 3H ARE INSTALLED, T-RATING IS 1/2-HR.

7. WHEN PENETRATIONS 3F THROUGH 3H ARE INSTALLED, THE F-RATING IS 0-HR. UNDER THE CAN/ULC-S115 TESTING STANDARD.

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Sheet 2 of 2

Scale -

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