

UL/cUL SYSTEM NO. W-L-1506

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

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

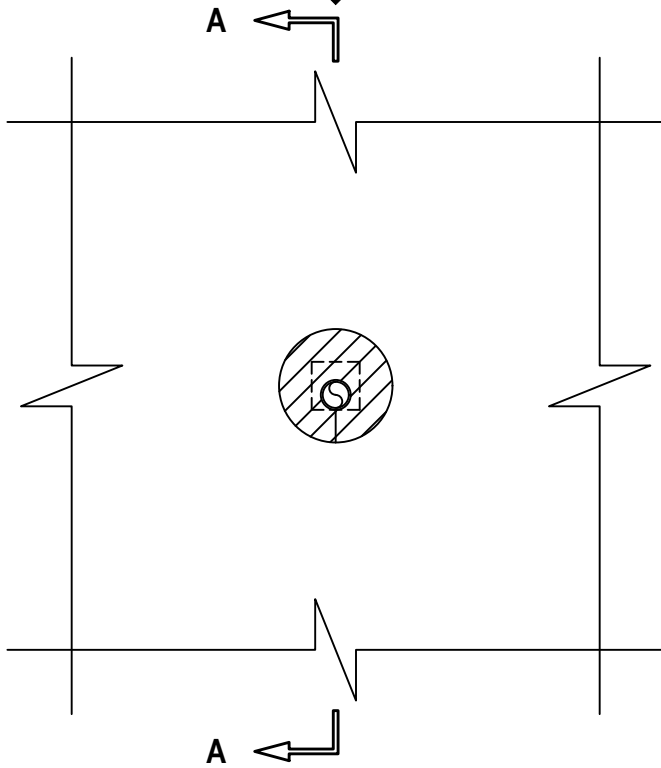
T-RATING = 0-HR., 1/2-HR., 1-HR., OR 2-HR. (SEE NOTES BELOW)

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

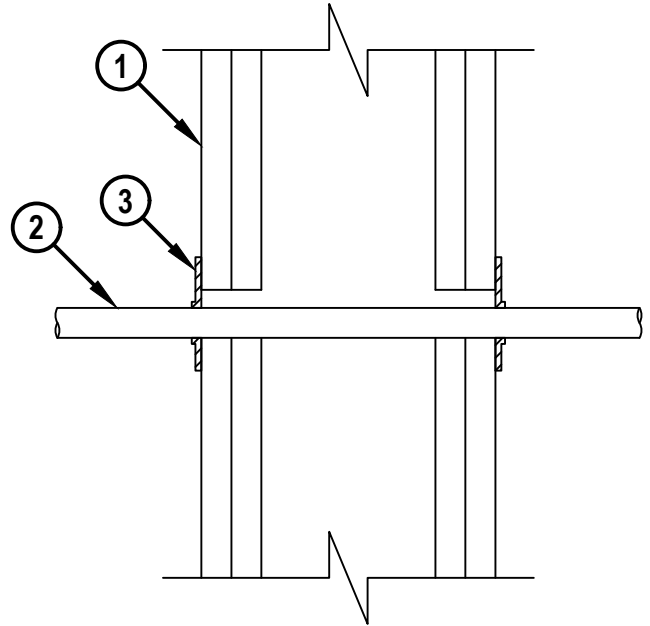
L-RATING AT 400°F = LESS THAN 1 CFM / OPENING

WL 1506d.020525

FRONT VIEW



SECTION A-A



HILTI
Hilti Firestop Systems

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

Sheet	1 of 2
Scale	1/4" = 1"
Date	Feb. 05, 2025

Drawing No.
WL
1506d

Saving Lives through Innovation and Education

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1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN) TO INCLUDE THE FOLLOWING CONSTRUCTION FEATURES :
 - A. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER (SPACED MAXIMUM 16" OC). STEEL STUDS TO BE MINIMUM 3-5/8" WIDE (SPACED MAXIMUM 24" OC).
 - B. NOMINAL 5/8" THICK GYPSUM WALLBOARD. TYPE, NUMBER OF LAYERS, AND SHEET ORIENTATION AS SPECIFIED IN THE INDIVIDUAL UL DESIGN.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
 - A. MAXIMUM 1/2" NOMINAL DIAMETER COPPER PIPE OR TUBING (TYPE L AND TYPE K OR HEAVIER).
 - B. MAXIMUM 1" NOMINAL DIAMETER STEEL PIPE (SCH 40 OR HEAVIER).
 - C. MAXIMUM 1" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
 - D. MAXIMUM 1" NOMINAL DIAMETER RIGID OR FLEXIBLE STEEL CONDUIT.
 - E. MAXIMUM 1" NOMINAL DIAMETER STEEL EMT.
 - F. MAXIMUM 1" NOMINAL DIAMETER ALUMINUM EMT.
 - G. MAXIMUM 1" NOMINAL DIAMETER ALUMINUM CONDUIT.
 - H. MAXIMUM 1" NOMINAL DIAMETER ALUMINUM PIPE (SCH. 5 OR HEAVIER).
3. 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 WALL. 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 1-1/4".
2. ANNULAR SPACE (PENETRATIONS 2A THROUGH 2E) = MINIMUM 0".
 3. ANNULAR SPACE (PENETRATIONS 2F THROUGH 2H) = MINIMUM 0", MAXIMUM 1/8".
 4. WHEN PENETRATIONS 2A THROUGH 2E ARE INSTALLED, AND THE OPENING EXCEEDS 1", MAXIMUM ANNULAR SPACE = 3/8".
 5. WHEN PENETRATION 2A IS INSTALLED, T-RATING IS 1-HR. FOR 1-HR. RATED WALL ASSEMBLIES, AND T-RATING IS 2-HR. FOR 2-HR. RATED WALL ASSEMBLIES RESPECTIVELY.
 6. WHEN PENETRATIONS 2B THROUGH 2H ARE INSTALLED, T-RATING IS 0-HR. FOR 1-HR. RATED WALL ASSEMBLIES AND T-RATING IS 1/2-HR. FOR 2-HR. RATED WALL ASSEMBLIES RESPECTIVELY.
 7. WHEN PENETRATIONS 2F THROUGH 2H ARE INSTALLED, THE F-RATING IS 0-HR. UNDER THE CAN/ULC-S115 TESTING STANDARD.

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