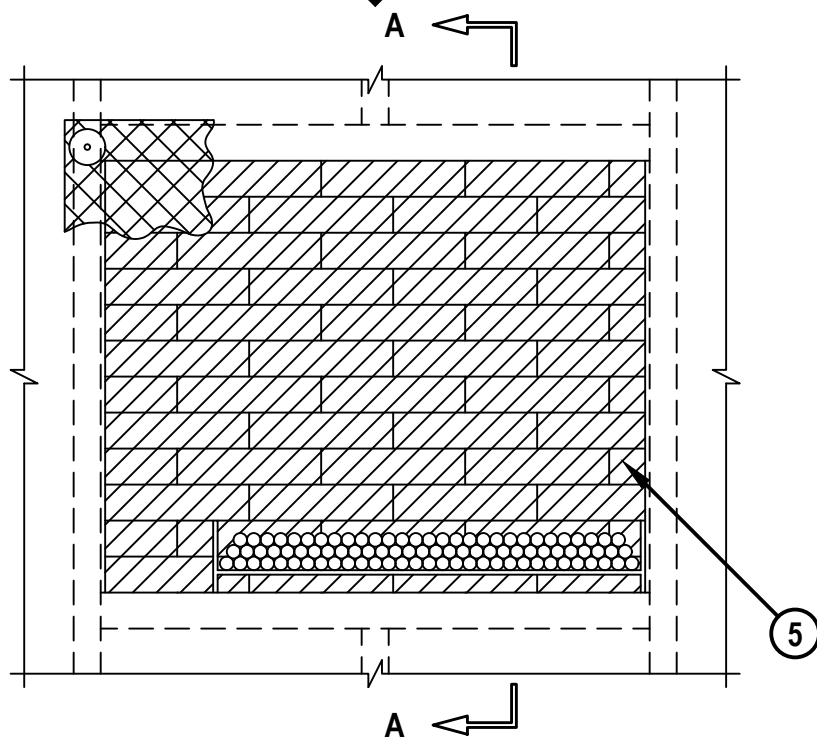


UL/cUL SYSTEM NO. W-L-4038
CABLE TRAY THROUGH GYPSUM WALL ASSEMBLY

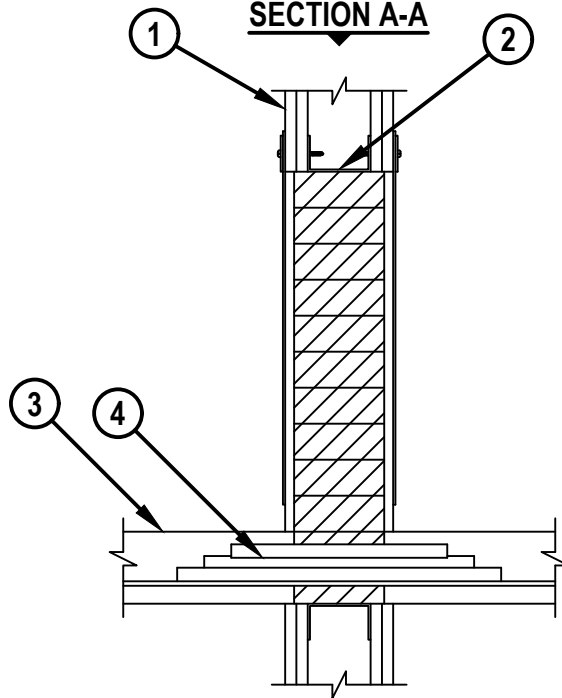
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.

WL4038g.020817

FRONT VIEW



SECTION A-A



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

Sheet 1 of 2
Scale 3/32" = 1"
Date Feb. 08, 2017

Drawing No.
**WL
4038g**

Saving Lives through Innovation and Education

CABLE TRAY THROUGH GYPSUM WALL ASSEMBLY

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

T-RATING = 0-HR.

WL4038g.020817

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE. OPENING TO BE COMPLETELY "FRAMED-OUT".
3. MAXIMUM 24" WIDE x 4" DEEP, ALUMINUM OR STEEL, OPEN LADDER OR SOLID BACK, CABLE TRAY.
4. CABLES TO BE ANY COMBINATION OF THE FOLLOWING :
 - A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE.
 - B. MAXIMUM 750 KCMIL SINGLE CONDUCTOR POWER CABLE.
 - C. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLE (24 FIBER).
 - D. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE.
5. HILTI CFS-BL FIRESTOP BLOCK (2" THICK x 8" WIDE x 5" DEEP, REFERENCE : FRONT VIEW) FIRMLY PACKED AND CENTERED WITHIN OPENING.

- NOTES :**
1. MAXIMUM AREA OF OPENING = 900 SQ. IN., WITH A MAXIMUM DIMENSION OF 30".
 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 26" (FOR STEEL STUD WALLS) OR MINIMUM 1", MAXIMUM 26" (FOR WOOD STUD WALLS).
 3. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF CABLE TRAY BASED ON A MAXIMUM 3" CABLE LOADING DEPTH.
 4. APPLY HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT, HILTI CP 618 FIRESTOP PUTTY STICK, HILTI CP 620 FIRE FOAM, OR HILTI CP 660 FIRESTOP FOAM IN ANY VOID THAT MAY EXIST (INTO INTERSTICES OF CABLES, BETWEEN CABLES AND CABLE TRAY, OR BETWEEN FIRESTOP BLOCKS), TO MAXIMUM EXTENT POSSIBLE.
 5. FOR WALLS CONSTRUCTED OF STEEL STUDS LARGER THAN 3-5/8", FIRESTOP BLOCKS SHOULD BE INSTALLED 8" DEEP, RECESSED UP TO A MAXIMUM 1/2" FROM OUTER WALL SURFACES.
 6. WHEN ANNULAR SPACE EXCEEDS 4", A NOMINAL 2" x 2" STEEL WIRE MESH (16 GA.) SHALL BE ATTACHED TO BOTH SIDES OF THE WALL BY MEANS OF 1/4" HILTI TOGGLER BOLTS WITH 1-1/2" DIAMETER FENDER WASHERS (SPACED MAX. 8" C/C) OR ATTACHED TO STEEL STUDS WITH STEEL SCREWS AND 1-7/16" DIAMETER FENDER WASHERS (SPACED MAX. 6" C/C).
 7. [NOT SHOWN] AS AN ALTERNATE TO WIRE MESH, STEEL PLATE (MIN. 22 GA.) MAY BE USED. STEEL PLATE SHALL BE SECURED TO BOTH SURFACES OF THE WALL ASSEMBLY WITH 1/4" DIAMETER LONG STEEL HOLLOW WALL ANCHORS OR ATTACHED TO STEEL STUDS WITH STEEL SCREWS (SPACED MAX. 12" C/C).
 8. STEEL WIRE MESH/STEEL PLATE SHALL BEGIN MAXIMUM 2-1/2" FROM THE PENETRANT AND OVERLAP MINIMUM 3" BEYOND THE PERIPHERY OF THE OPENING.



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

Sheet	2 of 2
Scale	-
Date	Feb. 08, 2017

Drawing No.

**WL
4038g**