

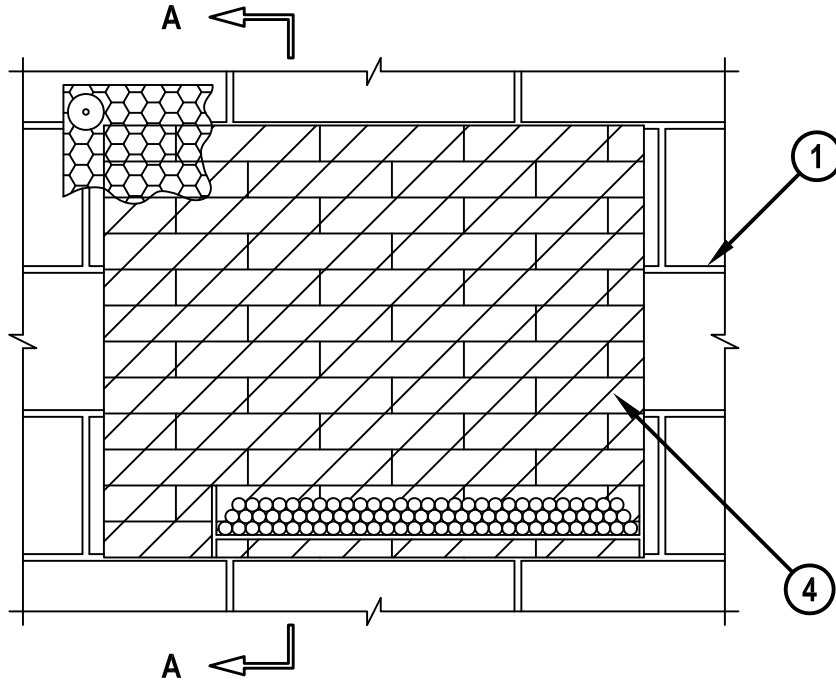
UL/cUL SYSTEM NO. W-J-4072

CABLE TRAY THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

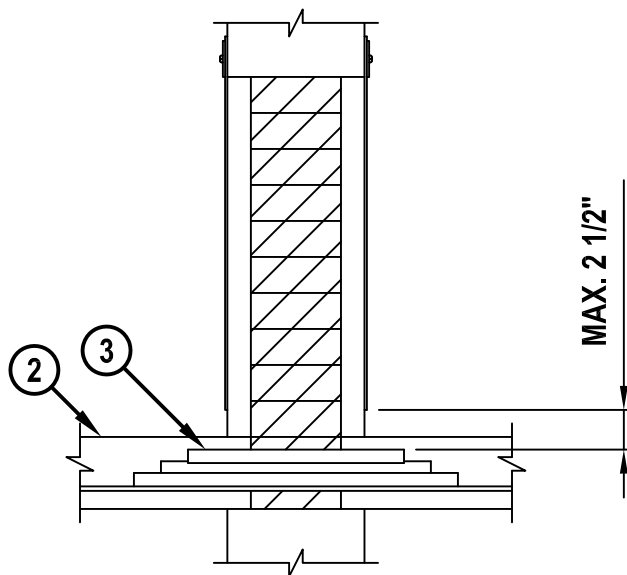
F-RATING = 2-HR.

T-RATING = 0-HR.

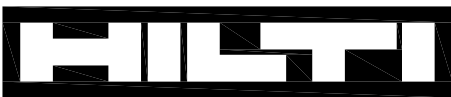
FRONT VIEW



SECTION A-A



WJ4072d.020916



Hilti Firestop Systems

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

Sheet 1 of 2

Scale 1/8" = 1"

Date Feb. 09, 2016

Drawing No.

WJ
4072d

Saving Lives through Innovation and Education

CABLE TRAY THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

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

WJ4072d.020916

1. CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING) :
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
 - B. ANY UL/cUL CLASSIFIED SOLID OR FILLED CONCRETE BLOCK WALL.
2. MAXIMUM 24" WIDE x 4" DEEP, ALUMINUM OR STEEL, OPEN LADDER OR SOLID BACK CABLE TRAY.
3. 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.
4. HILTI CFS-BL FIRESTOP BLOCK (2" THICK x 8" WIDE x 5" DEEP, REFERENCE : FRONT VIEW) FIRMLY PACKED AND CENTERED WITHIN OPENING OR FLUSH WITH ONE SIDE (SEE NOTE NO. 7 BELOW).

NOTES :

1. MAXIMUM AREA OF OPENING = 900 SQ. IN., WITH A MAXIMUM DIMENSION OF 30".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 26".
3. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF CABLE TRAY.
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) TO MAXIMUM EXTENT POSSIBLE.
5. WHEN ANNULAR SPACE EXCEEDS 12", ABOVE , BELOW, OR TO THE SIDES OF THE CABLE TRAY, A NOMINAL 1" HEXAGONAL STEEL WIRE MESH (20 GA. OR HEAVIER) OR NOMINAL 2" x 2" STEEL WIRE MESH (16 GA.) SHALL BEGIN MAXIMUM 2-1/2" FROM PENETRATING ITEM AND OVERLAP MINIMUM 3" BEYOND THE PERIPHERY OF THE OPENING. WIRE MESH SHALL BE ATTACHED TO BOTH SIDES OF THE WALL WITH 1/4" DIAMETER x 1" LONG STEEL CONCRETE ANCHORS AND 1-1/2" DIA. FENDER WASHERS (SPACED MAX. 8" C/C).
6. [NOT SHOWN] AS AN ALTERNATE TO WIRE MESH, STEEL PLATE (MIN. 22 GA.) MAY BE USED. STEEL PLATE SHALL BE ATTACHED TO STEEL STRUTS (13/16" DEEP x 12 GA.) WITH 1/4" DIA. STEEL NUTS (SPACED 8" C/C). STRUT SHALL BE SECURED TO BOTH SURFACES OF THE WALL ASSEMBLY WITH 1/4" DIA. x 1" LG. STEEL CONCRETE ANCHORS WITH STEEL NUTS (SPACED MAX. 12" C/C).
7. FOR BLOCK WALLS, FIRESTOP BLOCKS TO FILL ENTIRE THICKNESS OF WALL UNLESS WALL IS SOLID FILLED.



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Scale	-
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