

UL SYSTEM NO. W-J-8047		
MULTIPLE PENETRATIONS THROUGH CONCRETE WALL OR B F-RATING = 2-HR. T-RATING = 0-HR. L-RATING AT AMBIENT = 5 CFM / SQ FT L-RATING AT 400°F = 2 CFM / SQ FT	LOCK WALL AS	WJ8047f.082522
 CONCRETE WALL ASSEMBLY (2-HR. FIRE-RATING) : A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THI B. ANY UL/CUL CLASSIFIED CONCRETE BLOCK WALL. ONE OR MORE OF THE FOLLOWING PIPES, CONDUITS, OR TUBING (IN ANY INSTALLED WITHIN OPENING :	COMBINATION) MAY MINAL DIAMETER E SED PIPING SYSTEM) (SCH 40). STALLED WITH THE ENSITY). D. 5 BELOW). A 2" AND SMALLER OWING (MAX. QTY.	MT.). PIPES). = 8) :
HILTI, Inc. Plano, Texas USA (800) 879-8000 Hilti Firestop Systems	Sheet 2 of 3 Scale - Date Aug. 25, 2022	Drawing No. WJ 8047f

Saving Lives through Innovation and Education

UL SYSTEM NO. W-J-8047 MULTIPLE PENETRATIONS THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY

F-RATING = 2-HR. T-RATING = 0-HR. L-RATING AT AMBIENT = 5 CFM / SQ FT L-RATING AT 400°F = 2 CFM / SQ FT

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ANNULAR SPACE	MINIMUM	MAXIMUM
BETWEEN METALLIC PIPES AND PERIPHERY OF OPENING	1"	26"
BETWEEN METALLIC PIPES	0"	26"
BETWEEN NON-METALLIC PIPES OR RIGID NON-METALLIC CONDUITS	1-1/2"	26"
BETWEEN NON-METALLIC PIPES OR CONDUITS AND PERIPHERY OF OPENING	1-1/2"	26"
BETWEEN FIBER OPTIC RACEWAY AND OTHER PENETRANTS	3-1/2"	-
BETWEEN FIBER OPTIC RACEWAY AND PERIPHERY OF OPENING	2"	26"
BETWEEN INSULATED PIPES	1-1/2"	-
BETWEEN INSULATED PIPES AND PERIPHERY OF OPENING	1"	-
BETWEEN CABLE BUNDLES	1-1/2"	26"
BETWEEN CABLE BUNDLES AND PERIPHERY OF OPENING	1-13/16"	26"

NOTES : 1. MAXIMUM AREA OF OPENING = 1152 SQ. IN., WITH A MAXIMUM DIMENSION OF 48". 2. 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 INTO ANY VOID THAT MAY EXIST (AROUND PENETRANTS, INTO INTERSTICES OF CABLES, OR BETWEEN FIRESTOP BLOCKS), TO MAXIMUM EXTENT POSSIBLE. HILTI CP 618, HILTI CP20, AND HILTI CP 660 ARE NOT SUITABLE FOR CPVC.

3. L-RATINGS APPLY ONLY WHEN HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT IS USED.

4. IF THE ANNULAR SPACE IS GREATER THAN 4", THEN ATTACH A STEEL WIRE MESH (NOMINAL 2" SQUARES, NO. 16 SWG) WITH 1/4" DIAMETER x 1" LONG STEEL CONCRETE ANCHORS AND 1-1/2" DIAMETER FENDER WASHERS (SPACED MAXIMUM 8" C/C) ON BOTH SIDES OF WALL ASSEMBLY. STEEL WIRE MESH SHALL OVERLAP MINIMUM 3" BEYOND THE PERIPHERY OF THE OPENING. THE JOINTS WITHIN WIRE MESH SHALL OVERLAP A MINIMUM OF 2" AND BE SECURED TOGETHER BY 16 AWG STEEL WIRE SPACED 8" O.C.

5. CALCIUM SILICATE PIPE INSULATION TO BE SECURED WITH STAINLESS STEEL BANDS OR WITH 18 AWG STAINLESS STEEL WIRE LOCATED MAXIMUM 6" FROM EACH FACE OF WALL AND SPACED 12" O.C.

6. FOR BLOCK WALLS, FIRESTOP BLOCKS TO FILL ENTIRE THICKNESS OF WALL UNLESS WALL IS SOLID FILLED.

