

	UL/cUL SYSTEM NO. W-L-8095				
MULTIPLE PENET	RATIONS THROUGH GYPSUM WAI	<u>LL ASSEMBLY</u>			
	F-RATING = 1-HR. OR 2-HR.		5		
	T-RATING = 0-HR.		VL8095f.082522		
L	-RATING AT AMBIENT = 5 CFM / SQ FT		5f.08		
	L-RATING AT 400°F = 2 CFM / SQ FT		809		
NOTE : T	ESTED TO A 2.5 Pa PRESSURE DIFFEREN	ΓIAL	WL		
	NG NON-METALLIC PIPES MAY BE INSTALI				
	ETER CPVC PLASTIC PIPE (SDR 13.5) (CLOS		-		
	RGER THAN 2", PIPE MUST BE INSTALLED				
			AND TO		
	TER RIGID NON-METALLIC CONDUIT (RNC				
•	RGER THAN 2", PIPE MUST BE INSTALLED	WIITIIEWS OUR 9	AND TU		
	TER FIBER OPTIC RACEWAY (PVC).				
	TER FRPP PLASTIC PIPE (SCH 40) (CLOSE				
N	RGER THAN 2", PIPE MUST BE INSTALLED		,		
	TER PVC PLASTIC PIPE (SCH 40) (CLOSED				
	RGER THAN 2", PIPE MUST BE INSTALLED				
	TER ABS PLASTIC PIPE (SCH 40) (CLOSED				
	RGER THAN 2", PIPE MUST BE INSTALLED		AND 10)		
	RANTS (ITEMS 3A, 3B, AND 3D) MAY BE INS	STALLED WITH THE			
FOLLOWING TYPES OF INSULATIO					
	S-FIBER PIPE INSULATION (MIN. 3.5 PCF D				
	SILICATE PIPE INSULATION (SEE NOTE NO				
	PIPE INSULATION (MAY BE INSTALLED ON				
	UNDLE TO CONSIST OF ANY OF THE FOLL	OWING (MAX. QIY.	= 8) :		
A. MAXIMUM 750 KCMIL POWER					
	VG TELEPHONE CABLE WITH PVC JACKET				
C. MAXIMUM 24 FIBER OPTIC CA					
D. MAXIMUM 3/C NO. 12 AWG ME					
E. MAXIMUM 7/C NO. 12 POWER					
F. RGU/59 COAXIAL CABLE WITH					
G. MAXIMUM 4 PAIR NO. 22 AWG					
	2" THICK x 8" WIDE x 5" DEEP, REFERENCI		MLY		
	WALL ASSEMBLY (SEE NOTE NO. 2 BELOW				
	R INSTALLED PER ACCOMPANYING INSTAL				
	ARE TO BE SECURED TOGETHER THROUG	SH THE OPENING W	IH 1/4"		
DIAMETER THREADED STEEL ROI					
	INAL 3/16" THICK x 1-3/4" WIDE) CONTINUC				
	PIPE, COVERING TWO TIMES, WITH ENDS				
	ED FLUSH WITH BOTH ENDS OF SHEET M	•			
10. SHEET METAL SLEEVE (MIN. 30 GA.) HAVING A MINIMUM 2" LAP ALONG THE LONGITUDINAL SEAM.					
	ACH SURFACE OF WALL. THE SLEEVE SH				
AROUND PIPE AND WRAP STRIP (ITEM 9) AND SECURED TOGETHER WITH TWO NO. 8 SHEET METAL					
SCREWS ON EACH END OF SLEE	/E.				
		Sheet 2 of 3	Drawing No.		
▏▋╶╍╸▎▕▏▝▀╌▆╶▆▆▎▋▏	HILTI, Inc.	Scale _	WL		
	Plano, Texas USA (800) 879-8000	Date of open			
Hilti Firestop Systems		Aug. 25, 2022	8095f		
Saving L	lives through Innovation and Educa	ation			

UL/cUL SYSTEM NO. W-L-8095 MULTIPLE PENETRATIONS THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR. T-RATING = 0-HR. L-RATING AT AMBIENT = 5 CFM / SQ FT L-RATING AT 400°F = 2 CFM / SQ FT NOTE : TESTED TO A 2.5 Pa PRESSURE DIFFERENTIAL

NL8095f.082522

ANNULAR SPACE	MINIMUM	MAXIMUM
BETWEEN METALLIC PIPES AND PERIPHERY OF OPENING		26"
BETWEEN METALLIC PIPES		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. FOR WALLS CONSTRUCTED OF STEEL STUDS LARGER THAN 3-5/8", FIRESTOP BLOCKS SHOULD BE INSTALLED 8" DEEP. FIRESTOP BLOCKS MAY BE RECESSED MAXIMUM 1/2" FROM SURFACE OF WALL.

3. 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 CP 620, AND HILTI CP 660 ARE NOT SUITABLE FOR CPVC.

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

5. IF THE ANNULAR SPACE IS GREATER THAN 12", THEN ATTACH A STEEL WIRE MESH (NOMINAL 1" HEXAGONAL [20 GA. OR HEAVIER] OR NOMINAL 2" SQUARES [NO. 16 SWG]) WITH 1/4" HILTI TOGGLER BOLTS WITH 1-1/2" DIAMETER FENDER WASHERS (SPACED MAXIMUM 8" C/C) OR ATTACHED TO STEEL STUDS WITH STEEL SCREWS AND 1-7/16" FENDER WASHERS (SPACED MAXIMUM 6" C/C) ON BOTH SIDES OF WALL OR STEEL WIRE MESH CUT TO FIT WITHIN 2" OF PENETRANT AND 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.

6. 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.

	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet Scale	3 of 3	Drawing No.		
		Date	-	WL 8095f		
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