



	UL/cUL SYSTEM NO. W-J-8078		
	ATING ITEMS THROUGH GYPSUM W	ALL ASSEMBLY	Y
	F-RATING = 1-HR. OR 2-HR.		_
	T-RATING = 0-HR.		WJ8078a.100119
			a.10
			078
			WJ8
SYSTEM TESTED WITH A PRESSUR	E DIFFERENTIAL OF 2.5 Pa BETWEEN THE	ΕΧΡΩΘΕΊ ΔΝΠ ΤΗΕ	
	HIGHER PRESSURE ON THE EXPOSED SID		
1. CONCRETE WALL ASSEMBLY ( 2	-HR. FIRE-RATING) :		
	VEIGHT CONCRETE WALL (MINIMUM 6" THI	CK).	
B. ANY UL/cUL CLASSIFIED CO			
2. MAXIMUM 24" x 4" ALUMINUM OF	PEN LADDER CABLE TRAY (MAX QTY. OF T	NO PER OPENING).	
	BE ANY COMBINATION OF THE FOLLOWIN		0 BELOW).
	WG TELEPHONE CABLE WITH PVC INSULA		
	ULTICONDUCTOR POWER AND CONTROL C		
•	mm) DIAMETER (OR SMALLER) FIBER OPTIC	CAL COMMUNICATIO	ON CABLE.
D. MAXIMUM 3/C NO. 12 AWG M E. MAXIMUM 4/0 AWG TYPE RHI			
F. MAXIMUM 4/0 AWG TYPE RH			
G. MAXIMUM RG6/U COAXIAL C			
	TER FIBER OPTIC CABLE (24 FIBER) WITH	PVC OR PE JACKET	
INSULATION.			
	G METAL CLAD OR ARMORED CABLE WITH	I STEEL OR ALUMIN	UM
	UNDER THE THROUGH PENETRATING PRO		
4. ONE OR MORE CABLE BUNDLES	CONSISTING OF THE CABLE TYPES LISTE	D IN ITEM 3 ABOVE	MAY BE
INSTALLED WITHIN THE OPENING	6. A MAXIMUM OF FOUR MAXIMUM 2" DIAMI	ETER CABLE BUND	LES OR A
	DIAMETER CABLE BUNDLES MAY BE INSTA		
	2" THICK x 8" WIDE x 5" DEEP) WITH 5" DIM	IENSION PROJECTI	NG
	CKED AND CENTERED IN OPENING.		
	STUD INSTALLED OVER TOP ROW OF FIRE		
	JPWARDS ON BOTH ENDS TO ALLOW ATTA		
SIDES OF THE OPENING WITH	I ONE MINIMUM 3/16" X 1-1/4" LONG STEEL		
_	E HILTLES-ONE MAX INTUMESCENT FIRES	ΤΟΡ SEALANT ΔΡΡΙ	IFD
<ol> <li>MINIMUM 1/4" DIAMETER BEAD OF HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT APPLIED UNDER COMPOSITE SHEET AROUND PERIMETER OF OPENING IN WALL.</li> </ol>			
7. HILTI CFS-COS FIRESTOP COMPOSITE SHEET CUT TO OVERLAP WALL A MINIMUM OF 2". COMPOSITE			
	JMINUM FOIL FACING AGAINST THE WALL		
3/16" DIAMETER X 1-1/4" LONG S	FEEL SCREW ANCHORS WITH MIN 1" DIAME	ETER WASHERS. AT	MAXIMUM
2" FROM ENDS AND MAXIMUM 6"	C/C. COMPOSITE SHEET CUT TO TIGHTLY	FOLLOW THE CONT	OUR OF
THE PENETRANTS. THE COMPOSITE SHEET IS NOT ATTACHED ALONG BOTTOM OF SHEET EXCEPT AT			
OVERLAPPING SECTIONS ON THE WALL. A MAXIMUM OF ONE BUTT SEAM OR SLIT IS PERMITTED IN			
COMPOSITE SHEET.			
		Sheet 3 of 4	Drawing No.
	HILTI, Inc.	Scale -	WJ
Hilti Firestop Systems	Plano, Texas USA (800) 879-8000	Date Oct. 01, 2019	8078a
This Frestop Systems		061. 01, 2019	00100

Saving Lives through Innovation and Education

UL/cUL SYSTEM NO. W-J-8078 MULTIPLE PENETRATING ITEMS THROUGH GYPSUM WALL ASSEMBLY			
T-RATING = 1-HR. OR 2-HR. T-RATING = 0-HR.			
8. MINIMUM 2" WIDE STAINLESS STEEL COVER STRIP (MIN. 26 GA.) CENTERED OVER ENTIRE LENGTH OF			
BUTTED SEAM OR SLIT MADE IN THE COMPOSITE SHEET. STEEL COVER STRIP SECURED TO COMPOSITE SHEET WITH 3/4" SHEET METAL SCREWS SPACED MAXIMUM 3" OC ALTERNATING ON EACH SIDE OF			
SEAM OR SLIT.			
9. HILTI CFS-CC FIRESTOP CABLE COLLAR INSTALLED AROUND CABLE BUNDLE AND MOUNTED TO FACE OF COMPOSITE SHEET ON BOTH SIDES OF THE WALL WITH 3/4" LONG SHEET METAL SCREWS WITH 3/4"			
WASHERS THROUGH EACH TAB OF DEVICE. MAXIMUM DIAMETER OPENING IN COMPOSITE SHEET FOR			
CABLE COLLAR IS 4". FOR OPENINGS IN COMPOSITE SHEET WITH CABLES, PLUG WITHIN COLLAR CUT TO TIGHTLY FIT AROUND THE CABLE BUNDLE.			
10. HILTI CP 653 (BA) SPEED SLEEVE [2" OR 4"] OR HILTI CFS-SL GA L SPEED SLEEVE [4"] SLID INTO AND			
CENTERED IN WALL. MAXIMUM DIAMETER OF OPENINGS IN COMPOSITE SHEET IS 3" FOR THE 2" DEVICE, AND 4-1/2" FOR THE 4" DEVICE. SPEED SLEEVE SECURED TO FACE OF COMPOSITE SHEET ON BOTH			
SIDES OF THE WALL WITH TWO NO. 8 SELF-DRILLING SCREWS THROUGH PRE-MADE HOLES IN DEVICE			
FLANGES. A MAXIMUM OF TWO SPEED SLEEVES MAY BE INSTALLED. (SEE NOTE NO. 6 BELOW).			
NOTES : 1. MAXIMUM AREA OF OPENING = 1200 SQ. IN., WITH A MAXIMUM DIMENSION OF 40". 2. ANNULAR SPACE BETWEEN CABLE TRAYS AND PERIPHERY OF OPENING =			
MINIMUM 0" OR GREATER AT BOTTOM OF CABLE TRAY, AND MINIMUM 2" AT SIDES AND TOP OF CABLE TRAY.			
3. ANNULAR SPACE BETWEEN CABLE TRAYS = MINIMUM 6".			
4. ANNULAR SPACE BETWEEN CABLE BUNDLES AND PERIPHERY OF OPENING = MINIMUM 0" OR GREATER.			
5. ANNULAR SPACE BETWEEN CABLE BUNDLES = MINIMUM 4".			
6. HILTI CP 653 (BA) OR HILTI CFS-SL GA L MAY BE INSTALLED WITH POINT OF CONTACT TO THE OPENING.			
7. CABLE FILL THROUGH OPENINGS IN COMPOSITE SHEET WHERE HILTI CFS-CC			
FIRESTOP CABLE COLLAR IS INSTALLED MAY BE 0% TO 100% VISUAL FILL OF OPENING AREA.			
8. CABLES MAY REPRESENT 0% TO 100% VISUAL FILL OF HILTI CP 653 (BA) OR HILTI			
CFS-SL GA L SPEED SLEEVE DEVICE. 9. APPLY HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT INTO INTERSTICES			
OF CABLES, BETWEEN CABLES AND CABLE TRAYS, AND INTO VOIDS TO			
MAXIMUM EXTENT POSSIBLE. 10. MAXIMUM AREA OF CABLES SHALL BE 45% OF CROSS-SECTIONAL AREA OF			
CABLE TRAY BASED ON A MAXIMUM 3" CABLE LOADING DEPTH.			
Sheet 4 of 4 Drawing No.			
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Hilti Firestop Systems Date Oct. 01, 2019 80786			

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