

UL/cUL SYSTEM NO. HW-D-0042			
TOP OF WALL JOINT : GYPSUM WALL ASSE	MBLY		
ASSEMBLY RATING = 1-HR. OR 2-HR.		-+	
		HWD0042x.082624	
CLASS II MOVEMENT CAPABILITIES - 50% COMPRESSION OR		082	
L-RATING AT AMBIENT = LESS THAN 1 CFM / LIN F		,2X	
L-RATING AT 400°F = LESS THAN 1 CFM / LIN FT		004	
		MD	
		I	
1. FLOOR OR ROOF ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING) :			
A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MIN. 2-1/2" THICK) OVER METAL DECKING			
(UL/cUL CLASSIFIED D700 OR D900 SERIES).			
A1. REINFORCED CONCRETE (MIN. 2-1/2" THICK) OVER COMPOSITE METAL DECK (MAX. 2-1/2" DEEP			
FLUTES) (BY EPIC METALS).			
A2. REINFORCED CONCRETE (MIN. 2-1/2" THICK) OVER COMPOSITE METAL DECK (MAX. 2" DEEP FLUTES			
VERSA-DEK®) (BY NEW MILLENNIUM BUILDING SYSTEMS).			
A3. STEEL FLOOR AND FORM UNITS (CONFIGURATION B) – COMPOSITE MAX 2 IN. (51 MM) DEEP GALV			
STEEL FLUTED UNITS. (VERCO DECKING INC – A NUCOR CO – TYPE 2.0D FORMLOK).			
A4. STEEL FLOOR AND FORM UNITS (CONFIGURATION B) – COMPOSITE MAX 2 IN. (51 MM) DEEP GALV			
STEEL FLUTED UNITS. (VULCRAFT, DIV OF NUCOR CORP – TYPE 2.0D FOI			
B. INSULATING CONCRETE (MIN. 2-1/2" THICK) OVER METAL DECKING (UL/c		00 SERIES).	
C. [NOT SHOWN] FLUTED STEEL ROOF DECK (UL/cUL CLASSIFIED P700 OR			
2. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING).			
3. CEILING RUNNER (MIN. 25 GA., FLANGE HEIGHT OF CEILING RUNNER SHALL BE MINIMUM 1/4" GREATER			
THAN MAXIMUM EXTENDED JOINT WIDTH) FASTENED TO UNDERSIDE OF DECK WITH STEEL MASONRY			
ANCHORS, STEEL FASTENERS, OR WELDS (SPACED MAX. 24" O.C.) (SEE NOTE NO. 4 BELOW).			
4. [OPTIONAL - NOT SHOWN] WHEN SPRAY-APPLIED FIREPROOFING IS USED,		IAY BE	
SECURED TO DECK WITH Z-SHAPED CLIPS (MIN. 20 GA.) WITH THE FOLLOWI			
LONG, BUT NOT EXCEEDING THE WIDTH OF THE WALL, BY 1-1/2" OR 2" LONG UPPER AND LOWER LEGS.			
SUPPORT CLIPS SPACED MAXIMUM 24" OC.			
5. STEEL STUDS (MIN. 2-1/2" WIDE), CUT 1/2" TO 3/4" LESS IN LENGTH THAN ASSEMBLY HEIGHT, NESTING IN			
CEILING RUNNER WITHOUT ATTACHMENT.			
6. 5/8" OR 1-1/4" THICKNESS GYPSUM WALLBOARD AS SPECIFIED IN THE INDIV			
OF SCREWS SHALL BE INSTALLED INTO STUDS 1-1/2" TO 2" BELOW THE BO	TTOM OF THE CEIL	NG	
RUNNER.			
7. HILTI CP 777 SPEED PLUGS FRICTION FITTED TO COMPLETELY FILL FLUTE FLUSH WITH BOTH SIDES OF			
WALL (SEE NOTES NO. 5 AND 6 BELOW).			
8. HILTI CP 767 SPEED STRIPS OR MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) COMPRESSED 50% AND			
INSERTED INTO JOINT, FLUSH WITH BOTH SIDES OF WALL.			
9. MINIMUM 1/8" (WET) THICKNESS HILTI CFS-SP WB FIRESTOP JOINT SPRAY TO COMPLETELY COVER			
MINERAL WOOL AND TO OVERLAP A MINIMUM 1/2" ONTO GYPSUM WALL AND METAL DECK, ON BOTH			
SIDES OF GYPSUM WALL ASSEMBLY.			
	Sheet 2 of 3	Drawing No.	
HILTI, Inc.	Scale _	HWD	
Plano, Texas USA (800) 879-8000	•		
Hilti Firestop Systems	Date Aug. 26, 2024	0042x	
Saving Lives through Innovation and Educa	tion		

A CLASS II MOVEMEN L-RATING	UL/cUL SYSTEM NO. HW-D-0042 ALL JOINT : GYPSUM WALL ASSI ASSEMBLY RATING = 1-HR. OR 2-HR. IT CAPABILITIES - 50% COMPRESSION O G AT AMBIENT = LESS THAN 1 CFM / LIN NG AT 400°F = LESS THAN 1 CFM / LIN F	R EXTENSION FT	HWD0042x.082624
OF UL CLASSIFIED MONO TYPE 300 (MANUFACTUR INSTALLATION OF CEILIN	Y BE SPRAYED WITH A MINIMUM 5/16" T OKOTE TYPE MK-6/HY (MANUFACTURED ED BY ISOLATEK, INT.) FIREPROOFING,	BY W.R. GRACE) OR PRIOR TO OR AFTER	R CAFCO
SHALL OVERLAP THE WA ON BOTH SIDES OF GYPS 4. AS AN ALTERNATE TO C USED. CONSULT THE UL 5. AS AN ALTERNATE TO H DENSITY) COMPRESSED PCF DENSITY) CUT TO TH WALL, COMPRESSED FRO 6. WHEN EPIC METALS DEC INVERTED FLUTES, FLUS	ALL A MINIMUM 1/2" AND OVERLAP THE SUM WALL ASSEMBLY. EILING RUNNER IN ITEM NO. 3, SLOTTEL FIRE RESISTANCE DIRECTORY FOR APP ILTI CP 777 SPEED PLUGS, MINERAL WO 25% MAY BE USED. ALTERNATELY, MINI IE SHAPE OF FLUTE AND NOMINAL 1" LO OM ENDS (APP. 14%) AND PACKED FLUS CK IS USED, MINERAL WOOL IS TO BE TI H WITH BOTH SIDES OF WALL. ADDITION MINERAL WOOL IS TO BE COMPRESSE	FIREPROOFING A MI O CEILING RUNNERS PROVED MANUFACT OOL SAFING (MIN. 4 F ERAL WOOL SAFING ONGER THAN THICK SH WITH WALL SURF GHTLY PACKED INT NALLY, WHEN EPIC I	INIMUM 2" MAY BE URERS. PCF (MIN. 4 NESS OF FACE. O THE METALS
Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000 ves through Innovation and Educ	Sheet 3 of 3 Scale - Date Aug. 26, 2024	Drawing No. HWD 0042x