

-	IL/cUL SYSTEM NO. HW-D-0947 L JOINT:GYPSUM WALL ASSE		
CLASS II MOVEMENT CAPABILIT L-RATING AT AMBIENT	ASSEMBLY RATING = 1-HR. IES - 50% COMPRESSION OR EXTENSION OR EXTENSION, 66% COMPRE COMPRESSION ONLY (SEE NOT T CFM / LIN FT OR LESS (SEE NOTE 1 CFM / LIN FT OR LESS (SEE NOTE NO	ON, 19% COMPRES ESSION ONLY, OR 1 ES NO. 1 AND 2 BEI NO. 4 BELOW)	9% <sup>0.</sup> 2
GREATER THAN MAXIMUM EXTEN FLOOR WITH STEEL MASONRY AN NO. 3 BELOW). B. STEEL STUDS (MIN. 3-1/2" WIDE) ( BOTTOM NESTING IN CEILING RUN C. 5/8" THICK GYPSUM WALLBOARD SCREWS SHALL BE INSTALLED IN RUNNER. D. ADDITIONAL LAYER OF 5/8" THICK	LASSIFIED U400, V400, OR W400 SERIE ANGE HEIGHT OF CEILING RUNNER SI DED JOINT WIDTH) FASTENED TO UND CHORS OR STEEL FASTENERS (SPAC CUT 3/4" TO 1" LESS IN LENGTH THAN INER WITHOUT ATTACHMENT. AS SPECIFIED IN THE INDIVIDUAL UL TO STUD 1" TO 1-1/2" BELOW THE BOT K GYPSUM WALLBOARD, MEETING TH	ES) (1-HR. FIRE-RAT HALL BE MINIMUM ERSIDE OF CONCR ED MAX 24" OC) (SE ASSEMBLY HEIGHT DESIGN. TOP ROW ITOM EDGE OF THE E SAME REQUIREM	1/4" ETE EE NOTE WITH OF E CEILING ENTS AS
INSTALLED INTO STUD 1" TO 1-1/2 3. HILTI CFS-TTS 212, CFS-TTS 358, CFS INSTALLED IN JOINT AS BACKER ROD TEAR STRIP. ON EACH SIDE OF THE W PUSHED INTO THE JOINT TO BE FRICT	NONE SIDE OF WALL ASSEMBLY. TOP "BELOW THE BOTTOM EDGE OF THE -TTS 600, CFS-TTS R OS, OR CFS-TTS ( ). TOP TRACK SEAL CUT IN HALF LEN( VALL, ONE HALF OF THE TOP TRACK S FION FIT AND TO BE FLUSH AGAINST T E COMPRESSED TOGETHER A MIN 1/4	CEILING RUNNER. DS TOP TRACK SEA GTHWISE AT DOTTE GEAL IS TO BE FOLI THE CEILING RUNNE	l 5d line or 5ed and
<ol> <li>4. HILTI CFS-TTS 212, CFS-TTS 358, CFS-TTS 600, CFS-TTS OS, OR CFS-TTS R OS FIRESTOP TOP TRACK SEAL INSTALLED OVER CEILING RUNNER PRIOR TO ATTACHMENT TO UNDERSIDE OF CONCRETE FLOOR IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.</li> <li>5. MINIMUM 5/8" DEPTH HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, OR HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT.</li> </ol>			
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## Saving Lives through Innovation and Education

UL/cUL SYSTEM NO. HW-D-0947			
<u>TOP OF WALL JOINT : GYPSUM WALL ASSEMBLY</u> ASSEMBLY RATING = 1-HR. CLASS II MOVEMENT CAPABILITIES - 50% COMPRESSION OR EXTENSION, 66% COMPRESSION ONLY, OR 19% OR EXTENSION, 66% COMPRESSION ONLY, OR 19% COMPRESSION ONLY (SEE NOTES NO. 1 AND 2 BELOW) L-RATING AT AMBIENT = 1 CFM / LIN FT OR LESS (SEE NOTE NO. 4 BELOW) L-RATING AT 400°F = 1 CFM / LIN FT OR LESS (SEE NOTE NO. 4 BELOW)			
<ul> <li>NOTES : 1. ALLOWABLE JOINT WIDTHS TO BE DETERMINED AS FOLLOWS FOR CONFIGURATION A :         <ul> <li>A. FOR UNBALANCED WALLS TO ACCOMMODATE MAX 50% COMPRESSION OR EXTENSION, MAX WIDTH OF JOINT = 1/2".</li> <li>B. FOR UNBALANCED WALLS TO ACCOMMODATE MAX 66% COMPRESSION ONLY, MAX WIDTH OF JOINT = 3/4".</li> </ul> </li> <li>ALLOWABLE JOINT WIDTHS TO BE DETERMINED AS FOLLOWS FOR CONFIGURATION B :         <ul> <li>A. FOR UNBALANCED WALLS TO ACCOMMODATE MAX 19% COMPRESSION OR EXTENSION, MAX WIDTH OF JOINT = 1/2".</li> <li>B. FOR UNBALANCED WALLS TO ACCOMMODATE MAX 19% COMPRESSION ONLY, MAX WIDTH OF JOINT = 1/2".</li> <li>B. FOR UNBALANCED WALLS TO ACCOMMODATE MAX 19% COMPRESSION ONLY, MAX WIDTH OF JOINT = 3/4".</li> </ul> </li> <li>AS AN ALTERNATE TO CEILING RUNNER IN ITEM 2C, SLOTTED CEILING RUNNERS MAY BE USED. CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR APPROVED MANUFACTURERS.</li> <li>FOR CONFIGURATION B, L-RATING ONLY APPLIES WHEN HILTI CP 606 FLEXIBLE FIRESTOP SEALANT OR HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT IS USED.</li> </ul>			
HILTI, Inc. Plano, Texas USA (800) 879-8000 <i>Date</i> Mar. 23, 2023 <i>Saving Lives through Innovation and Education</i>			