

UL/cUL SYSTEM NO. HW-D-0880

## TOP OF WALL JOINT : GYPSUM WALL ASSEMBLY

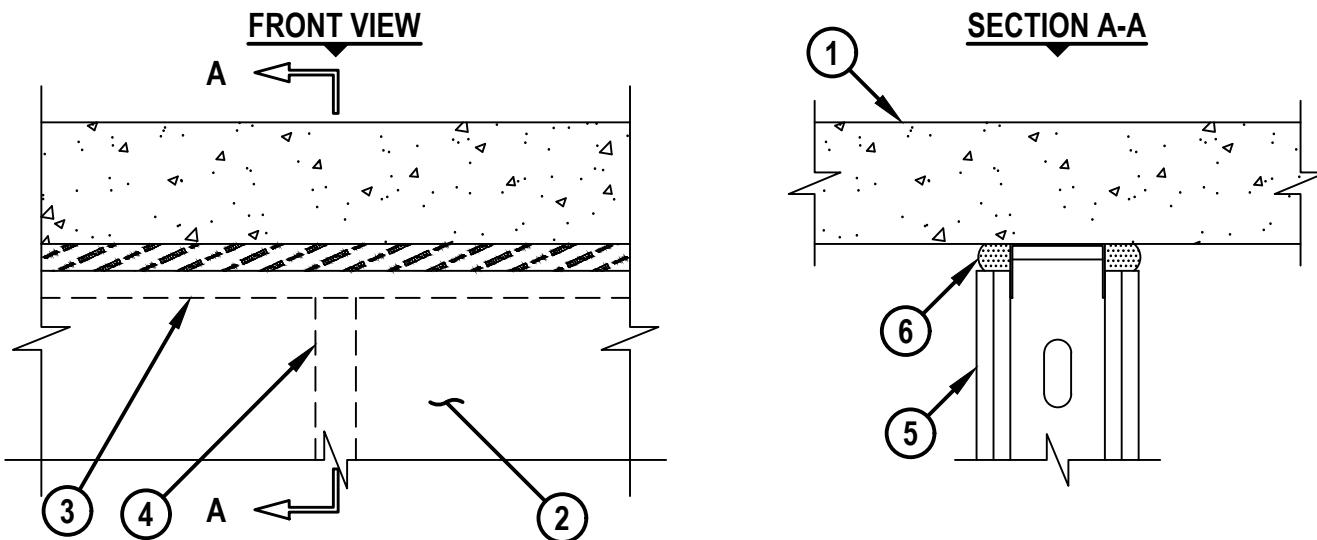
ASSEMBLY RATING = 1-HR. OR 2-HR.

L-RATING AT AMBIENT = 1 CFM / LIN FT

L-RATING AT 400°F = LESS THAN 1 CFM / LIN FT

CLASS II AND III MOVEMENT CAPABILITIES - 62% OR 86% COMPRESSION OR EXTENSION OR  
92% COMPRESSION ONLY (SEE TABLE BELOW)

HW-D0880c.100424



HILTI, Inc.  
Plano, Texas USA (800) 879-8000

Sheet	1 of 2	Drawing No.
Scale	9/64" = 1"	HWD
Date	Oct. 04, 2024	0880c

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1. CONCRETE FLOOR ASSEMBLY (2-HR. FIRE-RATING) :
  - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
  - B. ANY UL/cUL CLASSIFIED PRECAST (HOLLOW-CORE) CONCRETE FLOOR (MINIMUM 6" THICK).
2. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
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 CONCRETE FLOOR WITH MASONRY ANCHORS OR STEEL FASTENERS (SPACED MAX. 24" OC) (SEE NOTE BELOW).
4. STEEL STUDS (MINIMUM 3-1/2" WIDE) CUT 3/4" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN CEILING RUNNER WITHOUT ATTACHMENT.
5. 5/8" OR 1-1/4" THICKNESS GYPSUM WALLBOARD AS SPECIFIED IN THE INDIVIDUAL UL DESIGN. TOP ROW OF SCREWS SHALL BE INSTALLED INTO STUD 3-1/2" TO 5-1/2" BELOW THE BOTTOM EDGE OF THE CEILING RUNNER.
6. HILTI CFS-TTS MD OS OR CFS-TTS MD 600 TOP TRACK SEAL INSTALLED OVER CEILING RUNNER PRIOR TO ATTACHMENT TO UNDERSIDE OF CONCRETE FLOOR IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

MAX NOM JOINT WIDTH	MAX MOVEMENT CAPABILITIES		MAX MOVEMENT
7/8"	COMPRESSION	86%	3/4"
	EXTENSION	86%	3/4"
1"	COMPRESSION	62%	5/8"
	EXTENSION	62%	5/8"
1-5/8"	COMPRESSION	92%	1-1/2"
	EXTENSION	0%	0"

AS AN ALTERNATIVE TO THE MOVEMENT PERCENTAGES ABOVE, THE JOINT SYSTEM MAY MOVE FREELY WITHOUT RESTRICTION TO THE PERCENTAGE OF MOVEMENT WITHIN THE RANGE OF A MIN 1/8" TO MAX 1-5/8" JOINT WIDTH.

**NOTE : AS AN ALTERNATE TO CEILING RUNNER IN ITEM 3, SLOTTED CEILING RUNNERS MAY BE USED.  
CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR APPROVED MANUFACTURERS.**



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