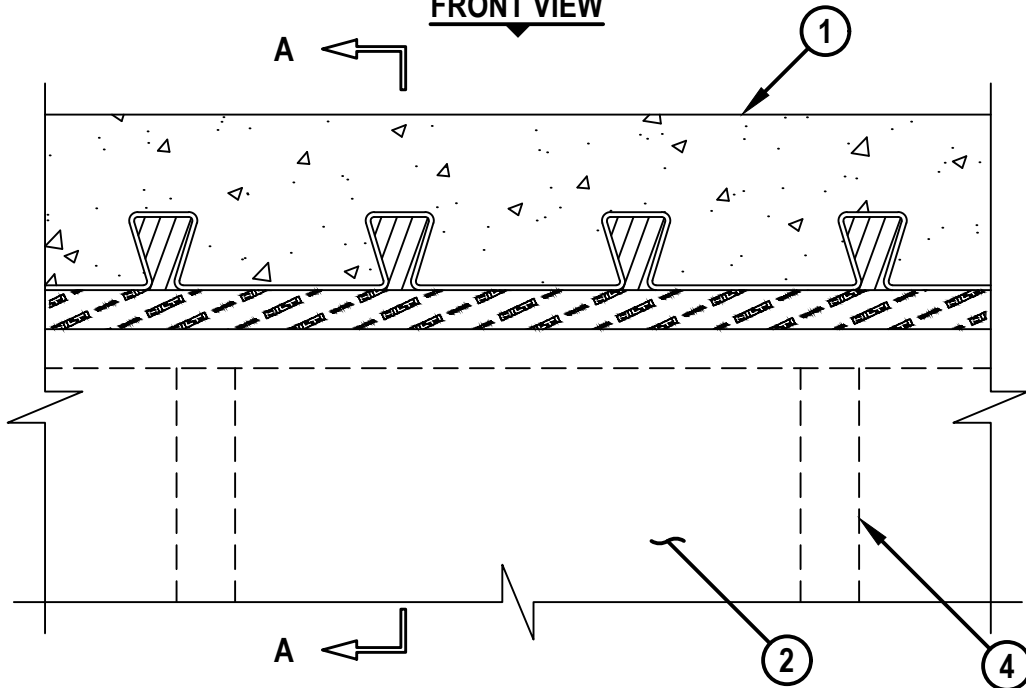


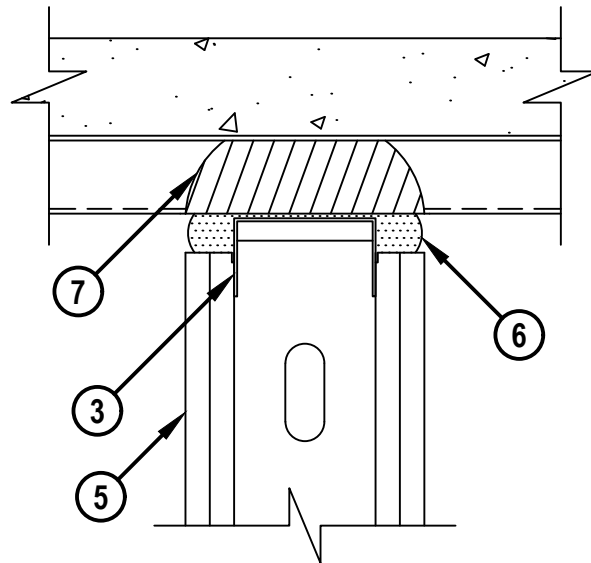
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L-RATING AT AMBIENT = LESS THAN 1 CFM / LIN FT
L-RATING AT 400°F = LESS THAN 1 CFM / LIN FT

FRONT VIEW



SECTION A-A



TOP OF WALL JOINT : GYPSUM WALL ASSEMBLY

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

CLASS II OR III MOVEMENT CAPABILITIES - 50% COMPRESSION OR EXTENSION, OR
66% COMPRESSION ONLY
(SEE NOTE NO. 1 BELOW)

L-RATING AT AMBIENT = LESS THAN 1 CFM / LIN FT

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

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1. FLOOR OR ROOF ASSEMBLY (THE HOURLY RATING OF THE FLOOR OR ROOF ASSEMBLY SHALL BE EQUAL TO OR GREATER THAN THE HOURLY RATING OF THE WALL ASSEMBLY) :
 - A. REINFORCED CONCRETE (MIN. 2-1/2" THICK) OVER COMPOSITE METAL DECK (MAX. 4" DEEP FLUTES) (BY EPIC METALS).
 - B. [NOT SHOWN] FLUTED STEEL ROOF DECK (UL/cUL CLASSIFIED P900 SERIES) CONSISTING OF INSULATING CONCRETE (MIN. 2-1/2" THICK) OVER COMPOSITE METAL DECK (MAX. 4" DEEP FLUTES) (BY EPIC METALS).
 - C. REINFORCED CONCRETE (MIN. 2-1/2" THICK) OVER COMPOSITE METAL DECK (MAX. 2" DEEP FLUTES VERSA-DEK® OR MAX. 3-1/2" DEEP FLUTES VERSA-DEK® 3.5 VLSC) (BY NEW MILLENNIUM BUILDING SYSTEMS).
2. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING). THE HOURLY RATING OF THE JOINT SYSTEM IS DEPENDENT UPON THE HOURLY RATING OF THE WALL ASSEMBLY.
3. CEILING RUNNER (MIN. 25 GA., FLANGE HEIGHT OF CEILING RUNNER SHALL BE MINIMUM 1" 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. 2 BELOW).
4. STEEL STUDS (MIN. 3-5/8" WIDE), CUT 3/4" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT, 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 STUDS 3-1/2" TO 5-1/2" BELOW THE BOTTOM 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 STEEL FLOOR UNIT IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.
7. HILTI CP 620 FIRE FOAM INSTALLED TO FILL FLUTES ABOVE WALL ASSEMBLY. FOR 1-HR. RATED WALLS, FIRE FOAM TO BE FLUSH WITH SURFACE OF WALL ON BOTH SIDES OF THE WALL. FOR 2-HR. RATED WALLS, FIRE FOAM TO BE FLUSH WITH OUTER WALL SURFACES AND MAY BE GRADUALLY RECESSED IN FROM FACE OF WALL BY 1/2" TO 1" AS IT RISES TO THE TOP OF THE FLUTES.

NOTES : 1. ALLOWABLE JOINT WIDTHS TO BE DETERMINED AS FOLLOWS :

- A. TO ACCOMMODATE 50% COMPRESSION OR EXTENSION, MAX WIDTH OF JOINT = 1".
- B. TO ACCOMMODATE 66% COMPRESSION ONLY, MAX WIDTH OF JOINT = 1-1/2".
2. AS AN ALTERNATE TO CEILING RUNNER IN ITEM 3, SLOTTED CEILING RUNNERS MAY BE USED. CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR APPROVED MANUFACTURERS. WHEN SLOTTED CEILING RUNNERS ARE USED, STUDS TO BE SECURED TO CEILING RUNNERS WITH NO. 8 x 1/2" LONG STEEL SCREWS AT MID-HEIGHT OF SLOT ON EACH SIDE OF WALL.

**Hilti Firestop Systems**

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

Sheet	2 of 2
Scale	-
Date	Oct. 12, 2021

Drawing No.

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