

UL/cUL SYSTEM NO. HW-D-0886

TOP OF WALL JOINT : GYPSUM WALL ASSEMBLY

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

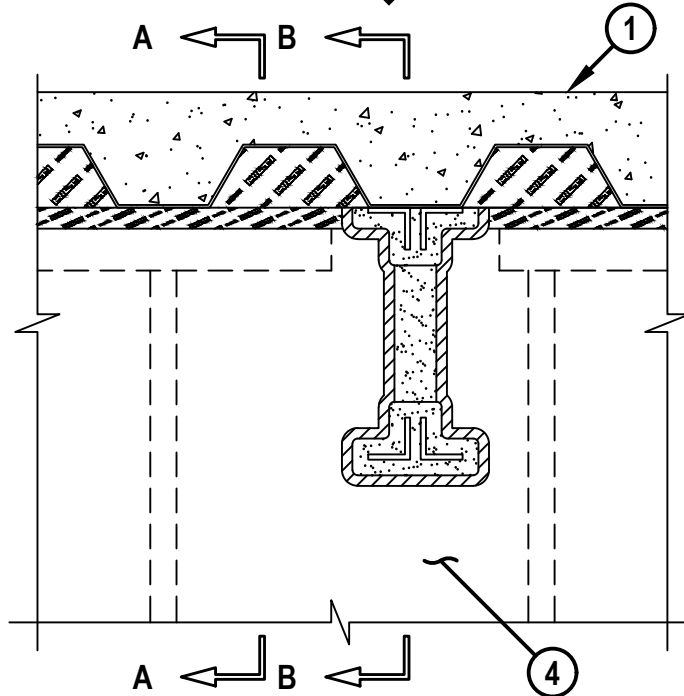
CLASS II MOVEMENT CAPABILITY - 12.5% COMPRESSION ONLY

L-RATING AT AMBIENT = 1.1 CFM / LIN FT

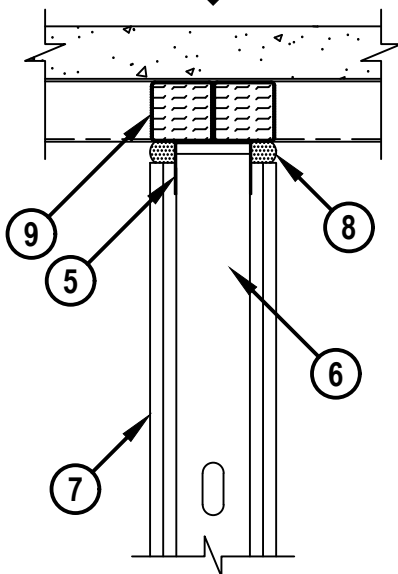
L-RATING AT 400F - LESS THAN 1 CFM / LIN FT

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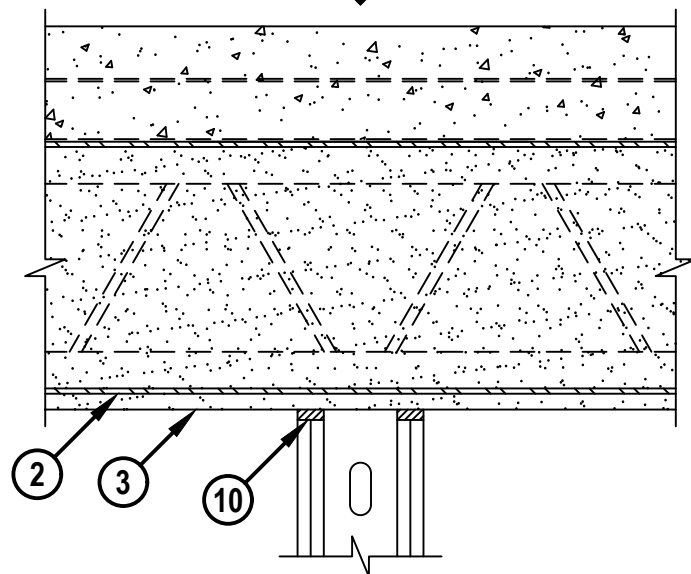
FRONT VIEW



SECTION A-A



SECTION B-B



1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MIN. 2-1/2" THICK) OVER METAL DECKING ASSEMBLY (UL/cUL CLASSIFIED D900 SERIES). THE HOURLY FIRE RATING OF THE FLOOR ASSEMBLY SHALL BE EQUAL TO OR GREATER THAN THE HOURLY RATING OF THE WALL ASSEMBLY.



Hilti Firestop Systems

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

Sheet	1 of 2
Scale	7/64" = 1"
Date	Apr. 03, 2024

Drawing No.

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0886c**

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2. (OPTIONAL) STEEL BEAM OR OPEN WEB STEEL JOIST, ORIENTED PERPENDICULAR TO WALL ASSEMBLY (SEE NOTE NO 2 BELOW).
3. UL CLASSIFIED MONOKOTE TYPES MK-6/HY OR MK-10HB (MANUFACTURED BY GCP APPLIED TECHNOLOGIES) OR TYPE 300 (MANUFACTURED BY ISOLATEK, INT) FIREPROOFING SPRAYED TO THE THICKNESS SPECIFIED IN THE INDIVIDUAL D900 SERIES DESIGN.
4. GYPSUM WALL ASSEMBLY (UL/CUL CLASSIFIED U400, V400 OR W400 SERIES) (1-HR. OR 2-HR FIRE-RATING) (2-HR. SHOWN). THE HOURLY RATING OF THE JOINT SYSTEM IS DEPENDENT UPON THE HOURLY RATING OF THE WALL ASSEMBLY.
5. 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) AND WITHIN 1" OF ENDS AT THE STRUCTURAL STEEL SUPPORT (SEE NOTE NO 5 BELOW). CEILING RUNNER INSTALLED CENTERED BENEATH AND PARALLEL WITH VALLEY OF FLUTED STEEL DECK OR PERPENDICULAR TO DIRECTION OF FLUTED STEEL DECK.
6. STEEL STUDS (MIN. 3-5/8" WIDE) CUT 1/2" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN CEILING RUNNER WITHOUT ATTACHMENT.
7. 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.
8. HILTI CFS-TTS MD OS OR CFS-TTS MD 600 FIRESTOP TOP TRACK SEAL INSTALLED OVER CEILING RUNNER PRIOR TO ATTACHMENT TO UNDERSIDE OF STEEL FLOOR UNIT IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.
9. WHEN WALL IS ORIENTED PERPENDICULAR TO THE FLUTED DECK HILTI CFS-TTS MD P [1.5, 2, OR 3] FIRESTOP TOP TRACK PLUG (PLUG SIZE TO MATCH DECK HEIGHT) TO BE FRICTION FIT IN FLUTES ABOVE THE CEILING RUNNER FLUSH WITH THE OUTER SURFACE OF THE CFS-TTS MD TOP TRACK SEAL ON BOTH SIDES OF WALL.
10. HILTI CFS-S SIL GG APPLIED AROUND FIREPROOFED BEAM FLUSH WITH EACH SIDE OF WALL. IN ADDITION, SEALANT SHALL BE APPLIED OVER THE TOP TRACK SEAL AND FIREPROOFING INTERFACE, EXTENDING 1" ALONG JOINT OVER TOP TRACK SEAL AT EACH SIDE OF BEAM.
 - A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
 - B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.

NOTES : 1. MAXIMUM WIDTH OF JOINT = 1".

2. ANNULAR SPACE BETWEEN GYPSUM AND FIREPROOFING ON STRUCTURAL STEEL SUPPORT = NOMINAL 1/2" TO 3/4".

3. WHERE OPEN-WEB STEEL JOISTS PASS THROUGH THE WALL, 3/8" DIAMOND MESH EXPANDED STEEL LATH (NOMINAL WEIGHT = 1.7 TO 3.4 LB PER YARD) SHALL BE SECURED TO ONE SIDE OF EACH JOIST WITH STEEL TIE WIRE.

4. AS AN ALTERNATE TO CEILING RUNNER IN ITEM 5, SLOTTED CEILING RUNNERS MAY BE USED. CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR APPROVED MANUFACTURERS.

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Scale -

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