

TOP OF WALL JOINT : GYPSUM WALL ASSEMBLY

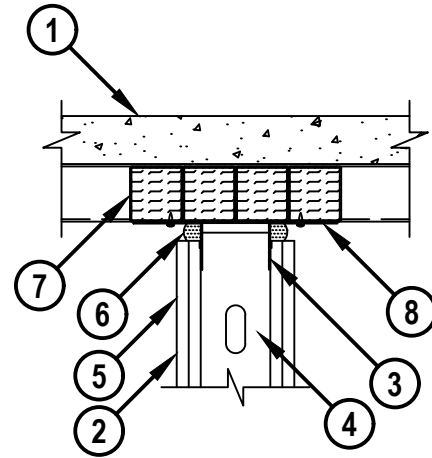
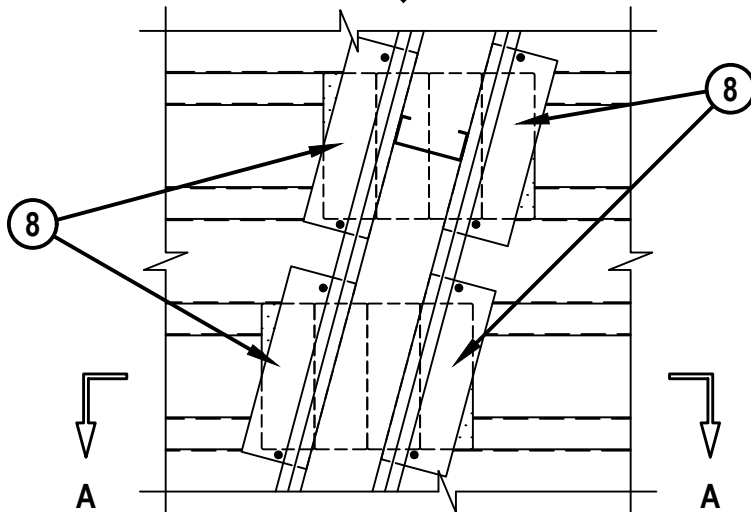
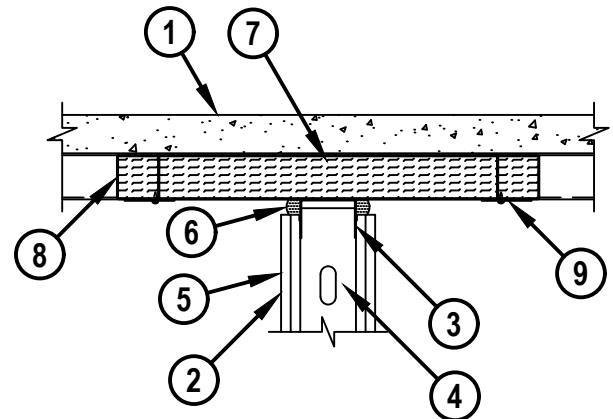
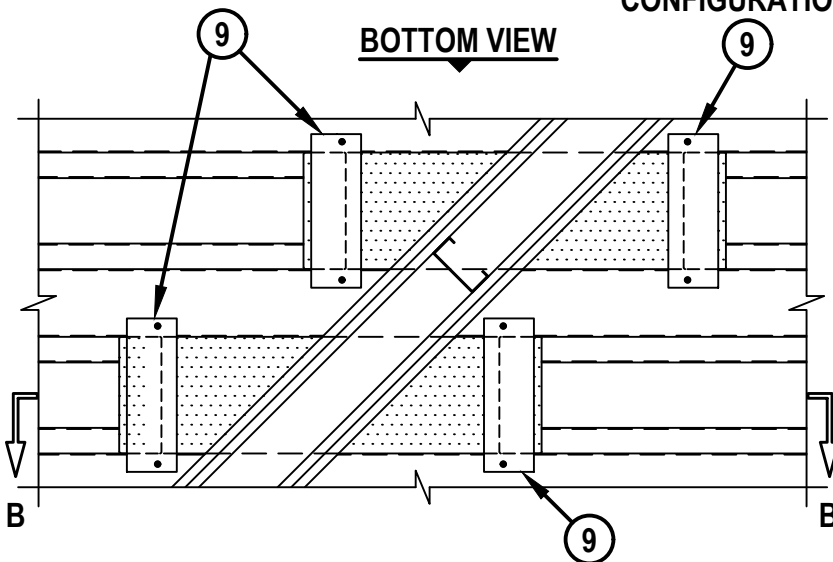
ASSEMBLY RATING = 1-HR. OR 2-HR.

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

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

CLASS II AND III MOVEMENT CAPABILITY - 50% COMPRESSION OR EXTENSION
OR 66% COMPRESSION ONLY

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BOTTOM VIEW**SECTION A-A****CONFIGURATION A****CONFIGURATION B****BOTTOM VIEW****SECTION B-B**

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

HILTI
Hilti Firestop Systems

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

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Scale -
Date June 03, 2021

Drawing No.

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3. CEILING RUNNER (MIN. 25 GA, FLANGE HEIGHT OF CEILING RUNNER SHALL BE MINIMUM 1/4" GREATER THAN MAXIMUM EXTENDED JOINT WIDTH) INSTALLED AT AN ANGLE TO THE FLUTED STEEL DECK AND FASTENED TO UNDERSIDE OF CONCRETE FLOOR WITH MASONRY ANCHORS OR STEEL FASTENERS (SPACED MAX. 24" OC) (SEE NOTE NO. 3 BELOW).
4. STEEL STUDS (MIN. 3-5/8" 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 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.

CONFIGURATION A

7. 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 AND COMPLETELY FILL FLUTES ABOVE THE CEILING RUNNER EXTENDING AT LEAST FLUSH WITH THE OUTER SURFACE OF THE CFS-TTS MD TOP TRACK SEAL ON BOTH SIDES OF WALL. FLUTE PLUGS TO EXTEND A MINIMUM 2-1/2" BEYOND THE CEILING RUNNER.
8. MIN 2" WIDE x 10" LONG (MIN 20 GA) STEEL STRAPS BUTTED AGAINST CEILING RUNNER ON BOTH SIDES OF WALL TO SPAN THE FLUTE AND SECURED TO FLUTED DECK WITH ONE STEEL FASTENER AT EACH END.

CONFIGURATION B

7. HILTI CFS-TTS MD C [1.5, 2, OR 3] FIRESTOP TOP TRACK COVER FRICTION FIT TO COMPLETELY FILL FLUTES IN ACCORDANCE WITH ACCOMPANYING INSTALLATION INSTRUCTIONS. TOP TRACK COVER SIZE TO MATCH DECK HEIGHT). TOP TRACK COVER TO EXTEND SUCH THAT THE STEEL STRAPS (ITEM 9) OVERLAP MINIMUM 1".
8. HILTI CFS-TTS MD P [1.5, 2, OR 3] FIRESTOP TOP TRACK PLUG (PLUG SIZE TO MATCH DECK HEIGHT) TO BE FRICTION FIT ABOVE THE STEEL STRAPS AND AT THE END OF TOP TRACK COVER ON BOTH SIDES OF WALL. FLUTE PLUGS TO EXTEND A MAXIMUM 1/2" BEYOND STEEL STRAPS (ITEM 9).
9. MIN 4" WIDE X 10" LONG (MIN 20 GA) STEEL STRAPS LOCATED A MAX 24" FROM CENTER OF CEILING RUNNER ON BOTH SIDES OF WALL AND SECURED TO STEEL DECK WITH MASONRY ANCHORS OF STEEL FASTENERS.

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 JOINT WIDTH = 1-1/2".

3. 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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