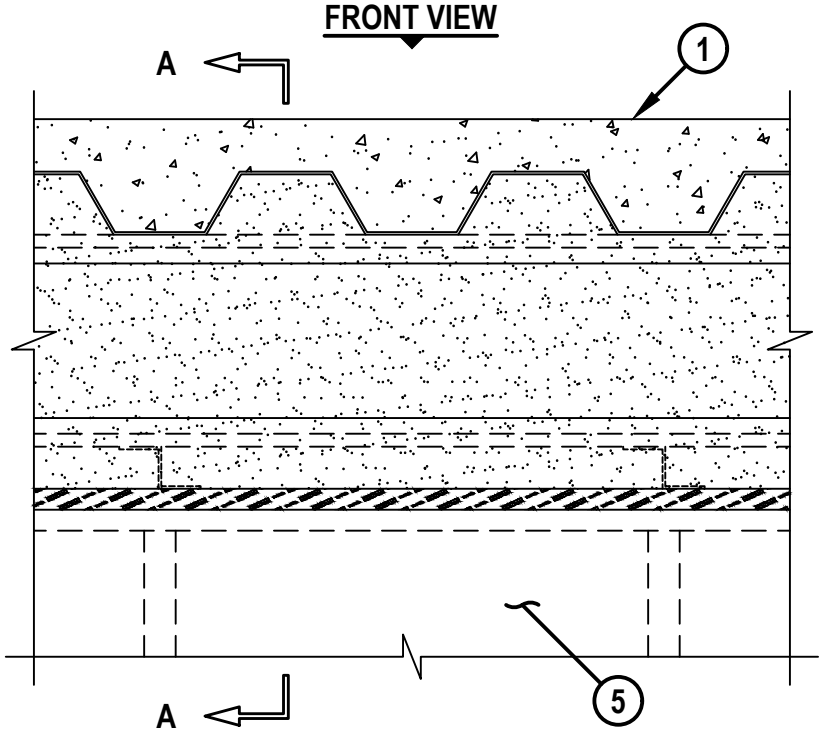
UL/cUL SYSTEM NO. HW-D-0875

TOP OF WALL JOINT : GYPSUM WALL ASSEMBLY

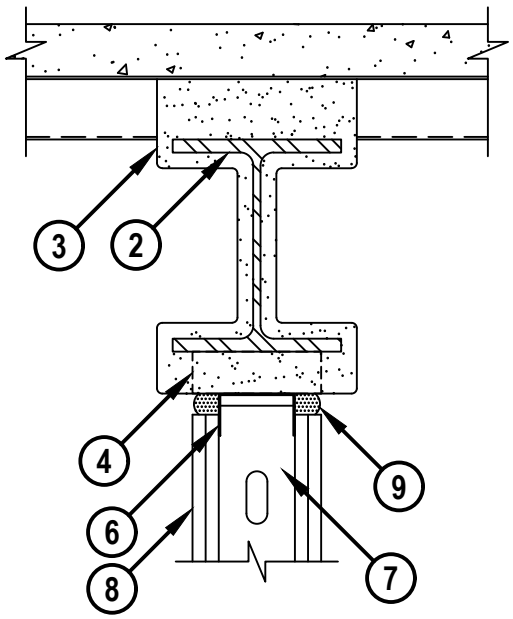
ASSEMBLY RATING = 1-HR. OR 2-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM / LIN FT
L-RATING AT 400°F = LESS THAN 1 CFM / LIN FT
CLASS II AND III MOVEMENT CAPABILITIES - 50% COMPRESSION OR EXTENSION OR 66% COMPRESSION ONLY

HWD0875d.032823

FRONT VIEW



SECTION A-A



Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet: 1 of 2 Scale: 7/64" = 1" Date: Mar. 28, 2023	Drawing No. HWD 0875d

Saving Lives through Innovation and Education

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HWD0875d.032823

1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 2-1/2" THICK) OVER METAL DECKING (UL/cUL CLASSIFIED D900 SERIES) (1-HR. OR 2-HR. FIRE-RATING).
2. STEEL BEAM ORIENTED PARALLEL TO WALL ASSEMBLY (SEE NOTE NO. 4 BELOW).
3. UL CLASSIFIED MONOKOTE TYPES MK-6/HY OR MK-10/HB (MANUFACTURED BY GCP APPLIED TECHNOLOGIES) OR TYPE 300 (MANUFACTURED BY ISOLATEK, INT.) FIREPROOFING SPRAYED TO THE THICKNESS SPECIFIED IN THE INDIVIDUAL D900 SERIES DESIGN (SEE NOTE NO. 4 BELOW).
4. Z-SHAPED CLIPS (MIN. 20 GA.) SIZED TO EXTEND THROUGH THE THICKNESS OF FIREPROOFING ON THE BOTTOM FLANGE OF BEAM WITH 2" LONG UPPER AND LOWER LEGS. SUPPORT CLIPS SECURED TO BEAM WITH STEEL FASTENERS SPACED MAXIMUM 24" OC.
5. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
6. CEILING RUNNER (MIN. 25 GA., FLANGE HEIGHT OF CEILING RUNNER SHALL BE MINIMUM 1/4" GREATER THAN MAXIMUM EXTENDED JOINT WIDTH) SECURED TO Z-SHAPED CLIPS WITH STEEL FASTENERS AT MAXIMUM 24" OC (SEE NOTE NO. 3 BELOW).
7. STEEL STUDS (MINIMUM 3-5/8" WIDE) CUT 1/2" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN CEILING RUNNER WITHOUT ATTACHMENT.
8. 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.
9. HILTI CFS-TTS MD OS OR CFS-TTS MD 600 TOP TRACK SEAL INSTALLED OVER CEILING RUNNER PRIOR TO ATTACHING TO Z-SHAPED CLIPS IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

NOTES : 1. TO ACCOMMODATE MAX 50% COMPRESSION OR EXTENSION, MAXIMUM WIDTH OF JOINT = 1".
2. TO ACCOMMODATE MAX 66% COMPRESSION ONLY, MAXIMUM WIDTH OF JOINT = 1-1/2".
3. AS AN ALTERNATE TO CEILING RUNNER IN ITEM 6, SLOTTED CEILING RUNNERS MAY BE USED. CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR APPROVED MANUFACTURERS.
4. THE TOTAL THICKNESS OF FIREPROOFING APPLIED TO EACH SIDE OF THE STEEL BEAM WEB SHALL BE MINIMUM 13/16" THICKNESS FOR 1-HR. ASSEMBLY RATING AND MINIMUM 1-3/8" THICKNESS FOR A 2-HR. ASSEMBLY RATING, WHEN USING MONOKOTE TYPE MK-6/HY, AND MINIMUM 11/16" THICKNESS FOR A 1-HR. ASSEMBLY RATING AND MINIMUM 1-1/2" THICKNESS FOR A 2-HR. ASSEMBLY RATING WHEN USING TYPE 300.