UL/cUL SYSTEM NO. HW-D-0569

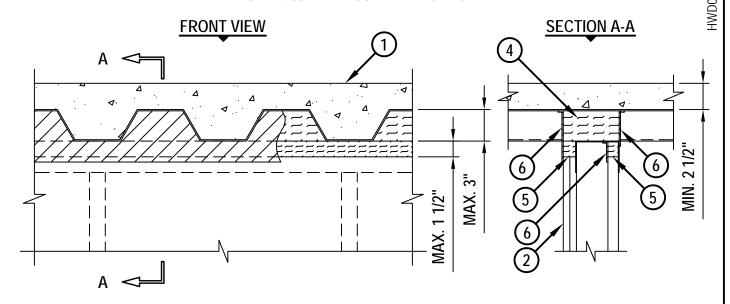
TOP OF WALL JOINT: GYPSUM SHAFT WALL ASSEMBLY

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

CLASS II MOVEMENT CAPABILITIES - 50% COMPRESSION OR EXTENSION

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

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



- 1. FLOOR OR ROOF ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING):
 - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MIN. 2-1/2" THICK) OVER METAL DECKING (UL/cul classified D700 or D900 Series).
 - B. INSULATING CONCRETE (MIN. 2-1/4" THICK) OVER METAL DECKING (UL/cul classified P900 Series).
 - C. [NOT SHOWN] FLUTED STEEL ROOF DECK WITH SPRAY-APPLIED FIREPROOFING (UL/cul classified P700 SERIES).
- 2. GYPSUM SHAFT WALL ASSEMBLY (UL/cUL CLASSIFIED U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN) TO INCLUDE THE FOLLOWING CONSTRUCTION FEATURES :
 - A. CEILING RUNNER, SIZED TO ACCOMMODATE STEEL STUDS. FLANGE HEIGHT OF CEILING RUNNER SHALL BE MINIMUM 1/4" GREATER THAN THE MAXIMUM EXTENDED JOINT WIDTH. RUNNER SECURED TO STEEL DECK VALLEYS WITH STEEL FASTENERS OR WELDS SPACED MAXIMUM 24" O/C (SEE NOTE NO. 4 BELOW).
 - B. "C-H" SHAPED STUDS (MINIMUM 4" WIDE, MINIMUM 25 GA.) CUT 3/4" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT, NESTING IN CEILING RUNNER WITHOUT ATTACHMENT.
 - C. NOMINAL 1" THICK GYPSUM LINER PANEL CUT 1-1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT. TYPE AND SHEET ORIENTATION AS SPECIFIED IN THE INDIVIDUAL UL DESIGN.
 - D. NOMINAL 5/8" THICK GYPSUM WALLBOARD CUT 1-1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH SCREW ATTACHMENT 1" TO 1-1/2" BELOW THE BOTTOM OF THE CEILING RUNNER OR SLOTTED CEILING TRACK. TYPE, NUMBER OF LAYERS, AND SHEET ORIENTATION AS SPECIFIED IN THE INDIVIDUAL UL DESIGN.



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Scale	7/64" = 1"
Date	Jan. 31, 2014

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UL/cUL SYSTEM NO. HW-D-0569

TOP OF WALL JOINT: GYPSUM SHAFT WALL ASSEMBLY

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

- 3. [OPTIONAL NOT SHOWN] WHEN SPRAY-APPLIED FIREPROOFING IS USED, CEILING RUNNER MAY BE SECURED TO DECK WITH Z-SHAPED CLIPS (MIN. 20 GA.) WITH THE FOLLOWING DIMENSIONS: MINIMUM 1" LONG, BUT NOT EXCEEDING THE WIDTH OF THE WALL, BY 1-1/2" OR 2" LONG UPPER AND LOWER LEGS. SUPPORT CLIPS SPACED MAXIMUM 24" OC.
- 4. HILTI CP 777 SPEED PLUG FRICTION FITTED TO COMPLETELY FILL FLUTE ABOVE CEILING RUNNER, FLUSH WITH WALL SURFACES (SEE NOTE NO. 5 BELOW).
- 5. HILTI CP 767 SPEED STRIPS OR MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) COMPRESSED 50%, FLUSH WITH GYPSUM BOARD SURFACES.
- 6. MINIMUM 1/8" (WET) THICKNESS HILTI CFS-SP WB FIRESTOP JOINT SPRAY TO COMPLETELY COVER MINERAL WOOL AND OVERLAPPING MINIMUM 1/2" ONTO GYPSUM BOARD, CEILING RUNNER, AND METAL DECK.

NOTES: 1. MAXIMUM WIDTH OF JOINT = 1-1/2".

- 2. STEEL FLOOR UNITS MAY BE SPRAYED WITH A MINIMUM 5/16" TO MAXIMUM 1-3/4" THICKNESS OF UL CLASSIFIED MONOKOTE TYPE MK-6/HY (MANUFACTURED BY W.R. GRACE) OR CAFCO TYPE 300 (MANUFACTURED BY ISOLATEK, INT.) FIREPROOFING, PRIOR TO OR AFTER INSTALLATION OF CEILING RUNNERS.
- 3. WHEN THE STEEL DECK IS COATED WITH FIREPROOFING, HILTI FIRESTOP JOINT SPRAY SHALL OVERLAP THE WALL A MINIMUM 1/2" AND OVERLAP THE FIREPROOFING A MINIMUM 2" ON BOTH SIDES OF GYPSUM WALL ASSEMBLY.
- 4. AS AN ALTERNATE TO CEILING RUNNER IN ITEM NO. 2A, SLOTTED CEILING RUNNERS MAY BE USED. CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR APPROVED MANUFACTURERS.
- 5. AS AN ALTERNATE TO HILTI CP 777 SPEED PLUGS, MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) COMPRESSED 50% MAY BE USED. ALTERNATELY, MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) CUT TO THE SHAPE OF FLUTE AND NOMINAL 1" LONGER THAN THICKNESS OF WALL, COMPRESSED FROM ENDS (APP. 14%) AND PACKED FLUSH WITH WALL SURFACE.



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