

UL/cUL SYSTEM NO. HW-D-0881

TOP OF WALL JOINT: GYPSUM SHAFT WALL ASSEMBLY

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

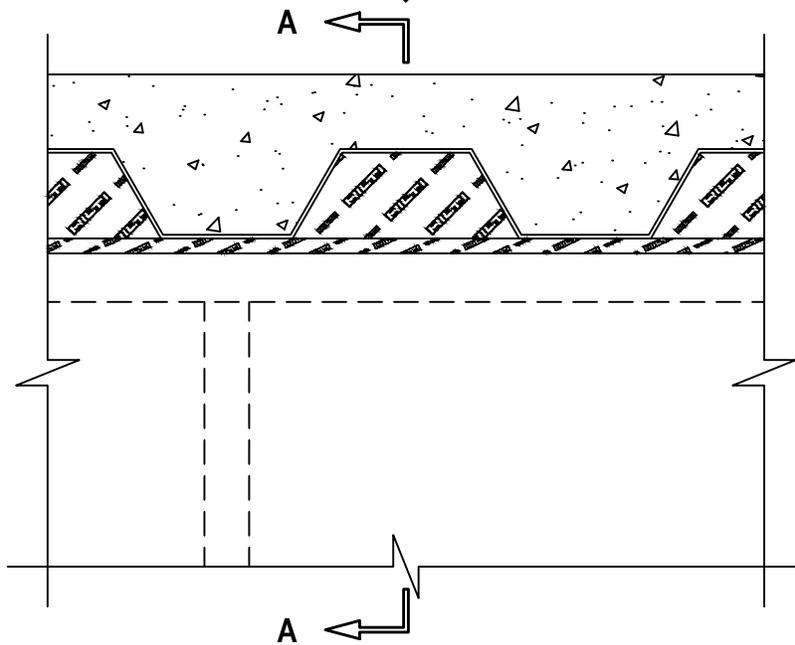
CLASS II OR III MOVEMENT CAPABILITIES - 50% COMPRESSION OR EXTENSION

L-RATING AT AMBIENT = LESS THAN 1 CFM / LIN FT (SEE NOTE NO. 2 BELOW)

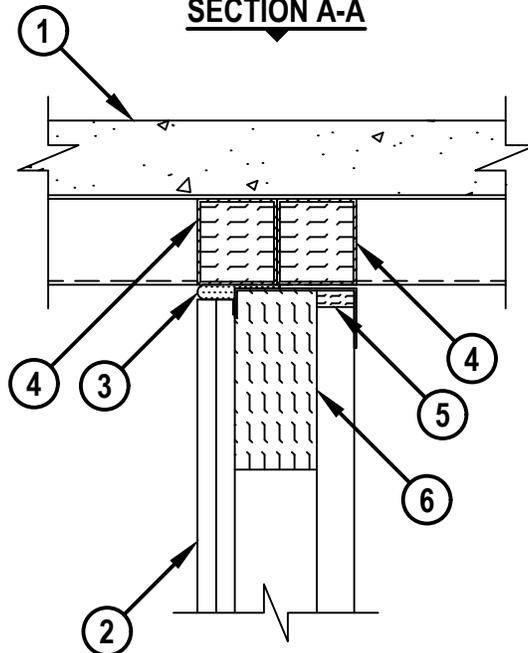
L-RATING AT 400°F = LESS THAN 1 CFM / LIN FT (SEE NOTE NO. 2 BELOW)

HW-D-0881a.120219

FRONT VIEW



SECTION A-A



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

Sheet	1 of 2
Scale	5/32" = 1"
Date	Dec. 02, 2019

Drawing No.
**HWD
0881a**

Saving Lives through Innovation and Education

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1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 2-1/2" THICK) OVER METAL DECKING ASSEMBLY (UL/cUL CLASSIFIED) (1-HR. OR 2-HR. FIRE-RATING).
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. "J" SHAPED CEILING RUNNER, MINIMUM 4" WIDE WITH LEGS OF 1" AND 2" (MINIMUM 20 GA.) FASTENED TO UNDERSIDE OF DECK OR FLOOR WITH STEEL FASTENERS OR ANCHORS SPACED MAXIMUM 24" O.C.
 - B. "C-H" OR "C-T" SHAPED STUDS (MINIMUM 4" WIDE, MINIMUM 20 GA.) CUT 1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT, NESTING IN CEILING RUNNER.
 - C. NOMINAL 1" THICK GYPSUM LINER PANEL CUT 3/4" LESS IN LENGTH THAN FLOOR TO CEILING HEIGHT. TYPE, AND SHEET ORIENTATION AS SPECIFIED IN THE INDIVIDUAL UL DESIGN.
 - D. NOMINAL 5/8" THICK "TYPE C" GYPSUM WALLBOARD APPLIED VERTICALLY OR HORIZONTALLY IN ONE OR TWO LAYERS FOR 1 OR 2 HOUR RATED WALLS RESPECTIVELY. SCREW ATTACHING THE GYPSUM BOARD TO THE STUDS SHALL BE LOCATED 3-1/2" TO 5-1/2" BELOW THE BOTTOM PLANE OF THE FLOOR.
3. HILTI CFS-TTS MD OS FIRESTOP TOP TRACK SEAL INSTALLED OVER CEILING RUNNER ON FINISHED SIDE OF WALL PRIOR TO ATTACHMENT TO UNDERSIDE OF STEEL FLOOR UNIT IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.
4. 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 BOTH SIDES OF WALL.
5. MINIMUM 1-1/4" THICK HILTI CP 767 SPEED STRIP OR 1" THICKNESS MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) COMPRESSED 50% TO FILL SPACE WITHIN CEILING RUNNER ABOVE GYPSUM LINER.
6. MINIMUM 6" WIDE MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) COMPRESSED 33% AND BUTTED TO UNDERSIDE OF CEILING RUNNER. DEPTH OF MINERAL WOOL TO EQUAL THE WIDTH OF CEILING RUNNER.

NOTES : 1. MAXIMUM WIDTH OF JOINT = 1/2".
 2. FOR L-RATING ONLY, WHEN GAPS ARE PRESENT ABOVE CEILING RUNNER AT STEEL DECK SEAMS OR EMBOSSEMENTS A SLIVER OF MINERAL WOOL SAFING OR HILTI SEALANT SHALL BE USED TO SEAL GAP ON FINISHED SIDE OF WALL.



Hilti Firestop Systems

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