

TOP OF WALL JOINT : GYPSUM WALL AND MASS TIMBER FLOOR ASSEMBLY

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

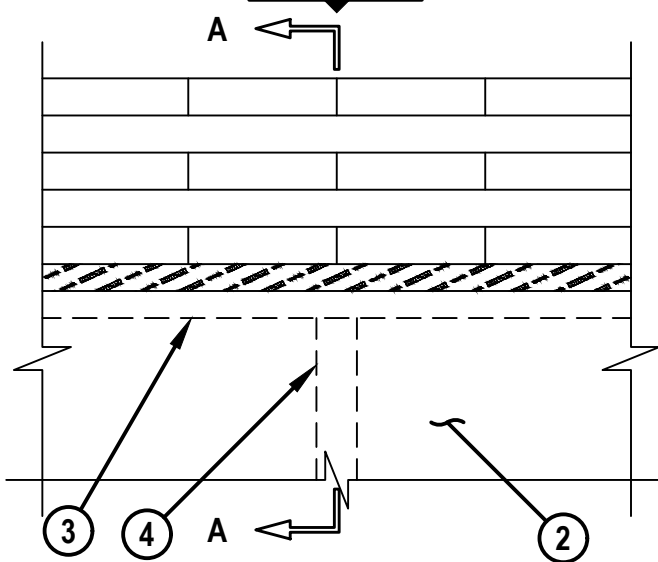
L-RATING AT AMBIENT = LESS THAN 1 CFM / LIN FT

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

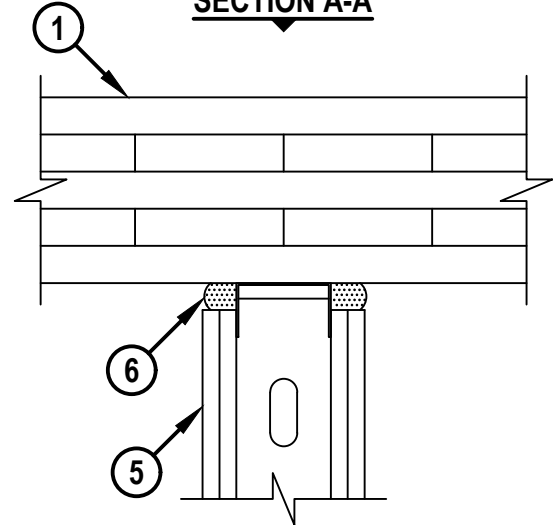
CLASS II MOVEMENT CAPABILITIES - 50% COMPRESSION OR 25% EXTENSION
OR 40% COMPRESSION ONLY (SEE NOTES NO. 2 AND 3 BELOW)

HW-D-0969a.110923

FRONT VIEW



SECTION A-A



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1. CROSS-LAMINATED TIMBER (CLT) PANEL, MINIMUM 6-7/8" THICK, 5 PLY CROSS, LABELED GRADE CV3 IN ACCORDANCE WITH ANSI/APA PRG 320 AS REQUIRED BY CHAPTER 6 OF INTERNATIONAL BUILDING CODE (IBC) FOR TYPE IVA, IVB, OR IVC CONSTRUCTION. THE REQUIRED HOURLY RATING OF THE CLT FLOOR SHALL BE DETERMINED IN ACCORDANCE WITH CHAPTER 16 OF THE NATIONAL DESIGN SPECIFICATION (NDS). ADDITIONAL INFORMATION REGARDING THE USE OF CLT AS PERMITTED IN THE IBC IS LOCATED IN THE UL XHEZ GUIDE INFORMATION.
2. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
3. 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 FLOOR WITH MINIMUM NO. 10 x 1-1/2" STEEL FASTENERS (SPACED MAX. 24" OC) (SEE NOTE NO. 1 BELOW).
4. STEEL STUDS (MINIMUM 3-1/2" 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 1" TO 5" BELOW THE BOTTOM EDGE OF THE CEILING RUNNER.
6. HILTI CFS-TTS MD OS OR CFS-TTS MD 600 TOP TRACK SEAL INSTALLED OVER CEILING RUNNER PRIOR TO ATTACHMENT TO UNDERSIDE OF FLOOR IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

NOTES : 1. AS AN ALTERNATE TO CEILING RUNNER IN ITEM 3, SLOTTED CEILING RUNNERS MAY BE USED. CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR APPROVED MANUFACTURERS.
 2. TO ACCOMMODATE MAX. 50% COMPRESSION OR 25% EXTENSION MAX. WIDTH OF JOINT = 1".
 3. TO ACCOMMODATE MAX. 40% COMPRESSION ONLY MAX. WIDTH OF JOINT = 1-1/4".

**Hilti Firestop Systems**

HILTI, Inc.
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Scale	-
Date	Nov. 09, 2023

Drawing No.

**HWD
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