

UL/cUL SYSTEM NO. HW-D-0990

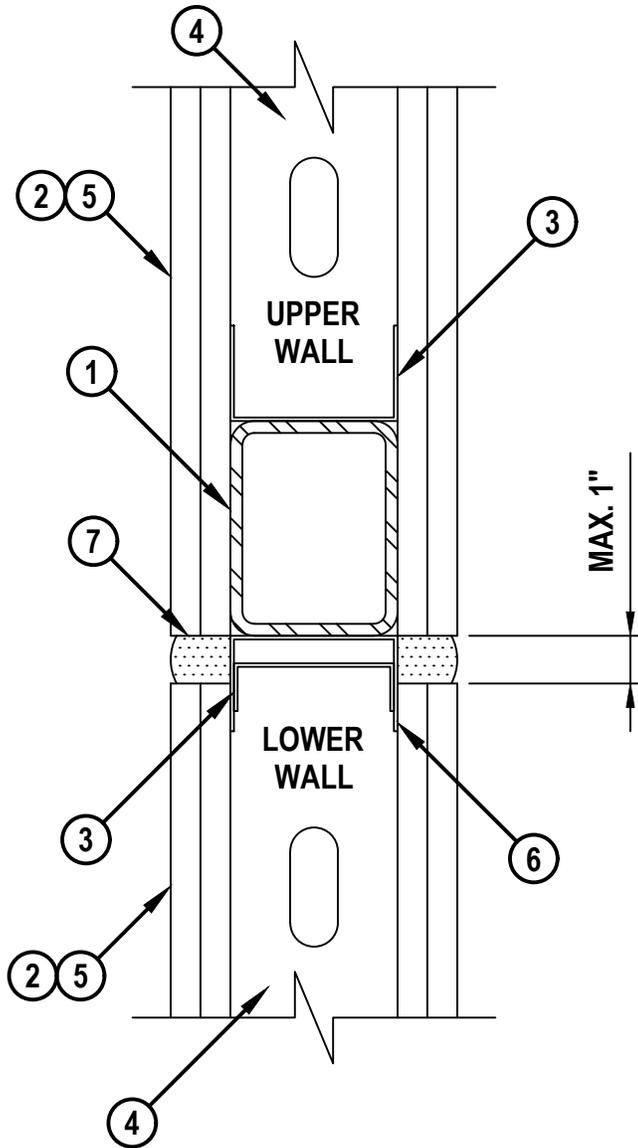
HEAD OF WALL JOINT : GYPSUM WALL ASSEMBLY

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

CLASS II MOVEMENT CAPABILITIES - 50% COMPRESSION OR EXTENSION

HW-D-0990a.030926

CROSS-SECTIONAL VIEW



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

Sheet	1 of 2
Scale	1/4" = 1"
Date	Mar. 09, 2026

Drawing No.
**HWD
0990a**

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1. STRUCTURAL STEEL SUPPORT (MAXIMUM SIZE 4" x 8") STEEL SUPPORT NOT EVALUATED AS A LOAD-BEARING MEMBER.
2. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
3. FLOOR AND CEILING RUNNERS (MIN. 25 GA., FLANGE SHALL BE MINIMUM 1/4" GREATER THAN MAXIMUM EXTENDED JOINT WIDTH) FLOOR RUNNER SECURED TO STRUCTURAL STEEL SUPPORT WITH STEEL FASTENERS OR WELDS AT MAXIMUM 24" OC.
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. STEEL STUDS SECURED TO SLOTTED CEILING RUNNER (ITEM 6) WITH NO. 8 BY 1/2" LONG WAFER HEAD STEEL SCREWS AT MID-HEIGHT OF SLOT ON EACH SIDE OF WALL.
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. SLOTTED DEFLECTION TRACK (MINIMUM 20 GA., SIZED TO ACCOMMODATE CEILING RUNNER (ITEM 3)) WITH 2-1/2". LEGS POSITIONED OVER THE LOWER WALL CEILING RUNNER TO CREATE A NOMINAL 3/4" GAP BETWEEN THE TRACKS. INSTALL SCREWS THROUGH THE SLOTS OF THE DEFLECTION TRACK INTO THE LOWER WALL STEEL CEILING RUNNER AT MID-HEIGHT OF SLOT WITH STEEL FASTENERS.
7. HILTI CFS-TTS MD OS OR CFS-TTS MD 600 TOP TRACK SEAL INSTALLED OVER SLOTTED DEFLECTION TRACK (ITEM 6) PRIOR TO ATTACHMENT TO THE UNDERSIDE OF THE STRUCTURAL STEEL SUPPORT IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.

NOTE : MAXIMUM WIDTH OF JOINT = 1".



Hilti Firestop Systems

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Sheet 2 of 2

Scale -

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