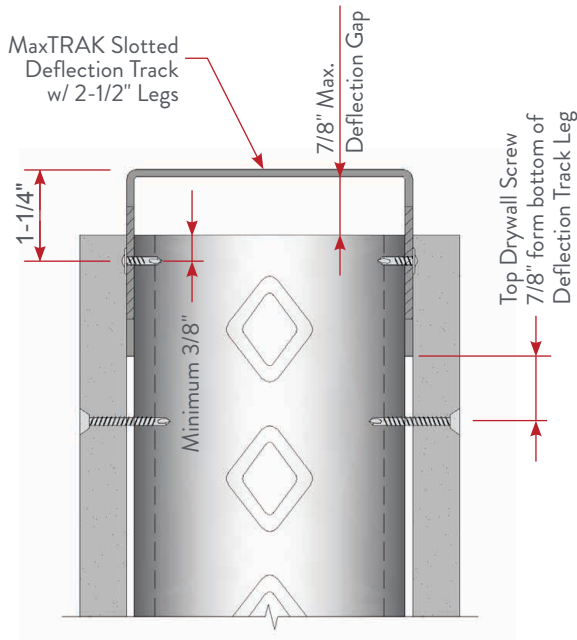


ProSTUD® 20 / 18mil Head-of-Wall (HOW) Composite Limiting Heights w/ 30mil 2-1/2" Leg MaxTRAK®				5/8" Type X Gypsum Board								
Width	Stud Member	Yield Strength	Spacing (in) o.c.	5psf			7.5psf			10psf		
				L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
2-1/2"	ProSTUD 20 / 18 mil 250PDS125-18	70 ksi	12	17'-5"	14'-8"	12'-10"	15'-3"	12'-10"	11'-2"	13'-10"	11'-8"	10'-2"
			16	16'-8"	14'-0"	12'-3"	14'-6"	12'-3"	10'-8"	13'-2"	11'-2" f	9'-6"
			24	15'-2"	12'-10"	11'-1"	13'-2" f	11'-2"	9'-6"	11'-5" f	10'-2"	8'-2"
3-5/8"	ProSTUD 20 / 18 mil 362PDS125-18	70 ksi	12	21'-2"	17'-8"	15'-5"	18'-6"	15'-6"	13'-5"	16'-10"	14'-1"	12'-3"
			16	19'-11"	16'-8"	14'-6"	17'-5"	14'-7"	12'-8"	15'-10"	13'-3"	11'-3"
			24	18'-0"	15'-0"	13'-0"	15'-9" f	13'-2"	11'-2"	13'-7" f	11'-11"	9'-9"
4"	ProSTUD 20 / 18 mil 400PDS125-18	70 ksi	12	22'-5"	18'-8"	16'-4"	19'-7"	16'-4"	14'-3"	17'-10"	14'-10"	13'-0"
			16	21'-0"	17'-7"	15'-4"	18'-4"	15'-4"	13'-5"	16'-8"	13'-11"	12'-2"
			24	18'-11"	15'-10"	13'-10"	16'-6"	13'-10"	12'-1"	14'-4" f	12'-6"	10'-6"
6"	ProSTUD 20 / 18 mil 600PDS125-18	70 ksi	12	30'-1"	25'-1"	21'-11"	26'-4"	21'-11"	19'-1"	23'-11"	19'-11"	17'-4"
			16	28'-1"	23'-4"	20'-5"	24'-6"	20'-5"	17'-10"	21'-6" f	18'-7"	16'-2"
			24	25'-1"	20'-11"	18'-3"	20'-9" f	18'-3"	15'-11"	18'-0" f	16'-7"	13'-8"

Notes:

- Allowable HOW composite limiting heights were tested in accordance with AISI S916 and ICC-ES AC86.
- The tests were modified from the standards with the tracks fastened to the test fixture such that the wall stiffness included the track deformation.
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- The composite limiting heights provided in the tables are based on a single layer of 5/8" Type X Gypsum Board from the following manufacturers: American, CertainTeed, Georgia Pacific, Continental, National, PABCO, and USG.
- The gypsum board must be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C754 using minimum No. 6 Type S Drywall screws spaced as listed below:
 - Sheathing screws spaced a maximum of 16 in on-center to framing members (including bottom track) when studs spaced at 16 in or 12 in on-center.
 - Sheathing screws spaced a maximum of 12 in on-center to framing members (including bottom track) when studs spaced at 24 in on-center.
- #8 wafer head screws shall be used for attaching the stud to 30mil 2-1/2" Leg MaxTRAK (as top track) adhering to details below:
 - Stud to track connection must be installed as depicted in figure with a maximum gap of 7/8" between the web of the MaxTRAK and end of stud.
 - Slots in the MaxTRAK Legs allows for a total vertical movement of 1-1/2" (± 3/4") with screw centered in slots
 - Screws shall be placed in each flange of the stud at a minimum of 3/8" from the end of the stud
 - To permit head of wall deflection, gypsum board must not be fastened directly to the MaxTRAK
- No fasteners are required for attaching the stud to the bottom track except as detailed in ASTM C754.
- f** Adjacent to the height value indicates that flexural stress controls the allowable wall height.



Complies with IBC 2024 • AISI S100 • AISI S220