

ProSTUD® 33mil Head-of-Wall (HOW) Composite Limiting Heights
w/ 30mil 2-1/2" Leg Deflection Track

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 33 mil 250PDS125-33	33 ksi	12	18' - 9"	14' - 10"	13' - 0"	16' - 4"	13' - 0"	11' - 4"	14' - 10"	11' - 10"	10' - 4"
			16	17' - 4"	13' - 10"	12' - 1"	15' - 2"	12' - 1"	10' - 6"	13' - 9"	11' - 0"	9' - 5"
			24	15' - 5"	12' - 4"	10' - 9"	13' - 6"	10' - 9"	9' - 2"	12' - 3"	9' - 8"	8' - 1"
3-5/8"	ProSTUD 33 mil 362PDS125-33	33 ksi	12	24' - 2"	19' - 8"	17' - 2"	21' - 1"	17' - 2"	15' - 0"	19' - 2"	15' - 7"	13' - 8"
			16	22' - 6"	18' - 4"	16' - 1"	19' - 8"	16' - 1"	14' - 0"	17' - 10"	14' - 7"	12' - 8"
			24	20' - 1"	16' - 5"	14' - 4"	17' - 7"	14' - 4"	12' - 5"	15' - 11"	13' - 1"	11' - 1"
4"	ProSTUD 33 mil 400PDS125-33	33 ksi	12	25' - 7"	20' - 8"	18' - 1"	22' - 5"	18' - 1"	15' - 9"	20' - 4"	16' - 5"	14' - 4"
			16	23' - 10"	19' - 3"	16' - 10"	20' - 10"	16' - 10"	14' - 8"	18' - 11"	15' - 3"	13' - 4"
			24	21' - 4"	17' - 2"	15' - 0"	18' - 8"	15' - 0"	13' - 1"	16' - 11"	13' - 8"	11' - 8"
6"	ProSTUD 33 mil 600PDS125-33	33 ksi	12	34' - 5"	28' - 2"	24' - 11"	30' - 1"	24' - 7"	21' - 9"	27' - 4"	22' - 4"	19' - 9"
			16	32' - 1"	26' - 2"	23' - 2"	28' - 0"	22' - 11"	20' - 3"	25' - 5"	20' - 10"	18' - 5"
			24	28' - 8"	23' - 5"	20' - 8"	25' - 0"	20' - 6"	18' - 1"	22' - 9" f	18' - 7"	16' - 4"

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.
- No fasteners are required for attaching the stud to the Deflection track at the top except as detailed in ASTM C754.
 - Stud to track connection must be installed as depicted in figure with a maximum gap of 7/8" between the web of the Deflection track and end of stud.
 - To permit head of wall deflection, gypsum board must not be fastened directly to the Deflection track.
- No fasteners are required for attaching the stud to the bottom track except as detailed in ASTM C754.
- A spazer spacing bar shall be installed in the punchouts immediately adjacent to the top track (Deflection Track) to hold studs in place.
- f** Adjacent to the height value indicates that flexural stress controls the allowable wall height.

