



Limiting Heights for NITROSTUD 25 mil (0.0179 in.), $F_y = 33$ ksi, Studs with 5/8" Type X Gypsum Board

Member Size	Spacing (in.)	5 (psf)						7.5 (psf)						10 (psf)					
		L/120		L/240		L/360		L/120		L/240		L/360		L/120		L/240		L/360	
		ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in
1-5/8"	12	12	- 10f	11	- 11	10	- 8	10	- 5f	10	- 5	9	- 3	9	- 1f	9	- 1f	8	- 3
	16	11	- 1f	10	- 10	9	- 8	9	- 1f	9	- 1f	8	- 3	7	- 10f	7	- 10f		
	24	9	- 1f	9	- 1f	8	- 3												
2-1/2"	12	14	- 9f	14	- 9f	13	- 2	12	- 0f	12	- 0f	11	- 6	10	- 5f	10	- 5f	10	- 5f
	16	12	- 9f	12	- 9f	11	- 11	10	- 5f	10	- 5f	10	- 5f	9	- 0f	9	- 0f	9	- 0f
	24	10	- 5f	10	- 5f	10	- 5f	8	- 6f	8	- 6f	8	- 6f						
3-5/8"	12	16	- 11f	16	- 11f	14	- 11	13	- 10f	13	- 10f	13	- 0	12	- 0f	12	- 0f	11	- 10
	16	14	- 8f	14	- 8f	13	- 6	12	- 0f	12	- 0f	11	- 10	10	- 5f	10	- 5f	10	- 5f
	24	12	- 0f	12	- 0f	11	- 10	9	- 9f	9	- 9f	9	- 9f	8	- 6f	8	- 6f	8	- 6f
4"	12	17	- 8f	17	- 8f	15	- 10	14	- 5f	14	- 5f	13	- 10	12	- 6f	12	- 6f	12	- 6f
	16	15	- 4f	15	- 4f	14	- 4	12	- 6f	12	- 6f	12	- 6f	10	- 10f	10	- 10f	10	- 10f
	24	12	- 6f	12	- 6f	12	- 6f	10	- 3f	10	- 3f	10	- 3f	8	- 10f	8	- 10f	8	- 10f
6"	12	21	- 11f	21	- 11f	21	- 10	17	- 11f	17	- 11f	17	- 11f	15	- 6f	15	- 6f	15	- 6f
	16	19	- 0f	19	- 0f	19	- 0f	15	- 6f	15	- 6f	15	- 6f	13	- 5f	13	- 5f	13	- 5f
	24	15	- 6f	15	- 6f	15	- 6f	12	- 8f	12	- 8f	12	- 8f						

NOTES:

- Allowable composite limiting heights are calculated using ICC-ES AC86-2010.
- Minimum safety factor for strength = 1.508 for 5 to 10 psf
- The gypsum board must be applied full height to each stud flange and installed using minimum No. 6 Type S Drywall screws spaced a maximum of 12 in. on-center for studs at 24-in spacing, and 16 in. on-center for studs at 16 and 12 in. spacing.
- No fasteners are required for attaching the stud to the track.
- Stud end bearing must be a minimum of 1 inch.
- Minimum material yield strength equals 33 ksi.
- 'f' adjacent to the height value indicates that flexural stress controls the allowable wall height.
- 's' adjacent to the height value indicates that shear/end reaction controls the allowable wall height.