

**ProSTUD® 20 / 18mil Head-of-Wall 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"

**Table Notes**

- Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2019.
- Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program were observed.
- 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" ( $\pm 3/4"$ ) 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.

