ClarkDietrich

Technical Product Sheet

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ProSTUD® 25 / 15mil Head-of-Wall 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
3-5/8"	ProSTUD 25 / 15 mil 362PDS125-15	50 ksi	12	19' - 9"	16' - 6"	14' - 6"	16' - 10" f	14' - 5"	12' - 8"	14' - 7" f	13' - 1"	11' - 3"
			16	18' - 7"	15' - 6"	13' - 7"	15' - 4" f	13' - 7"	11' - 10"	13' - 3" f	12' - 4"	10' - 3"
			24	15' - 10" f	13' - 7"	11' - 10"	12' - 11" f	11' - 10"	10' - 1"	11' - 2" f	10' - 7"	8' - 10"
4"	ProSTUD 25 / 15 mil 400PDS125-15	50 ksi	12	20' - 11"	17' - 6"	15' - 3"	18' - 0" f	15' - 3"	13' - 4"	15' - 7" f	13' - 11"	12' - 1"
			16	19' - 9"	16' - 4"	14' - 4"	16' - 4" f	14' - 4"	12' - 6"	14' - 2" f	13' - 0"	11' - 2"
			24	16' - 6" f	14' - 4"	12' - 6"	13' - 6" f	12' - 6"	10' - 8"	11' - 8" f	11' - 3"	9' - 6"
6"	ProSTUD 25 / 15 mil 600PDS125-15	50 ksi	12	27' - 10" f	23' - 8"	20' - 8"	22' - 9" f	20' - 8"	18' - 1"	19' - 8" f	18' - 9"	16' - 5"
			16	24' - 1" f	21' - 11"	19' - 5"	19' - 8" f	19' - 2"	17' - 0"	17' - 1" f	17' - 1" f	15' - 2"
			24	19' - 8" f	19' - 2"	17' - 0"	16' - 1" f	16' - 1" f	14' - 9"	13' - 11" f	13' - 11" f	13' - 2"

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.
- 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 spazzer spacing bar shall be installed in the punchouts immedaitely 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.