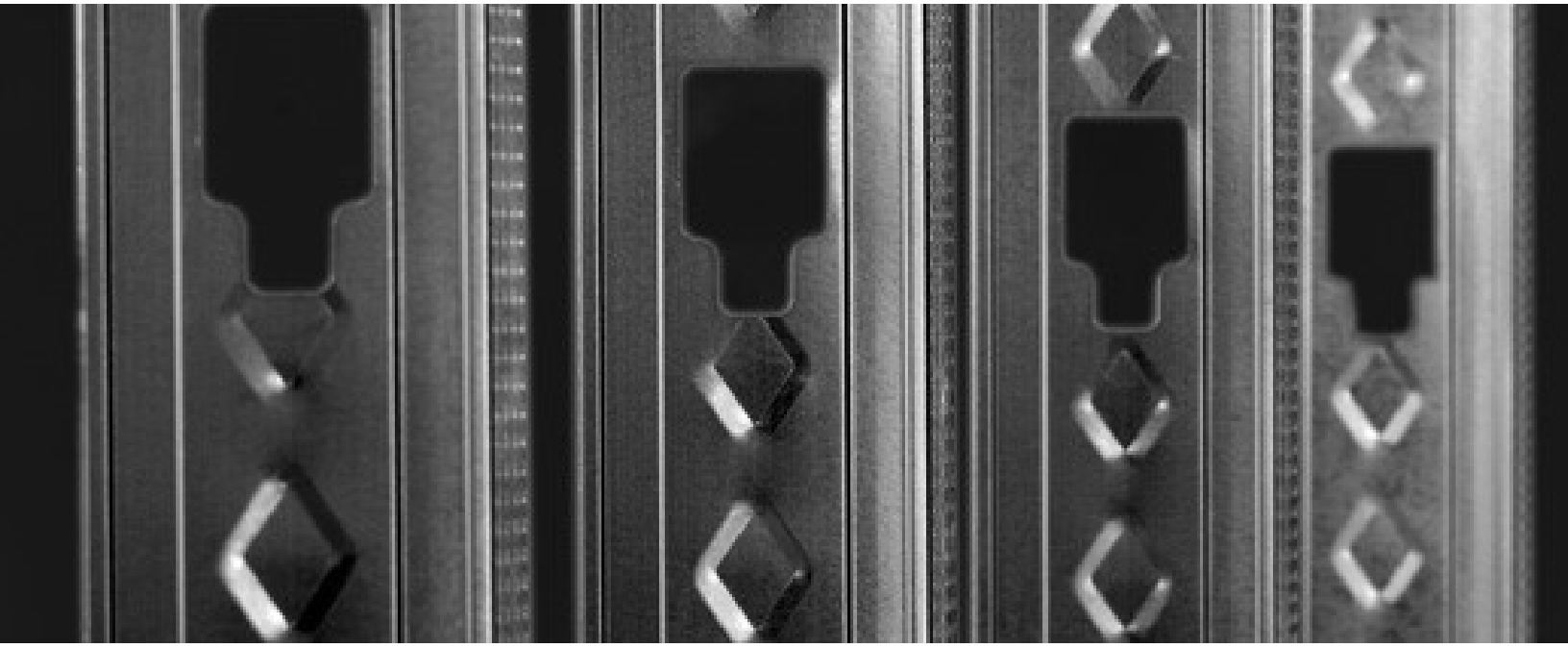
ProSTUD® Drywall Framing System



RAM STEEL FRAMING
SUPERIOR ROLL FORMING & STEEL MANUFACTURING

ProSTUD & ProTRAK Catalog

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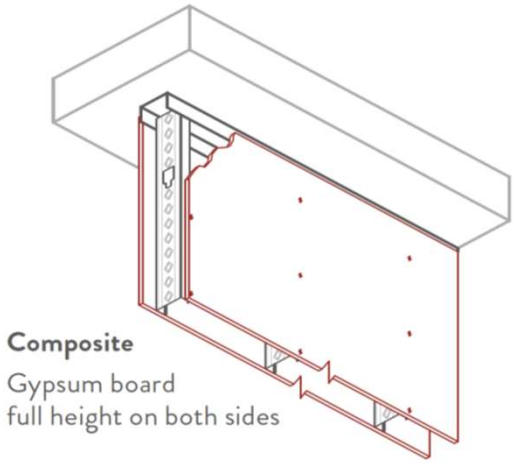
ProSTUD & ProTRAK Catalog

WALL TYPE SELECTION

Composite Assemblies

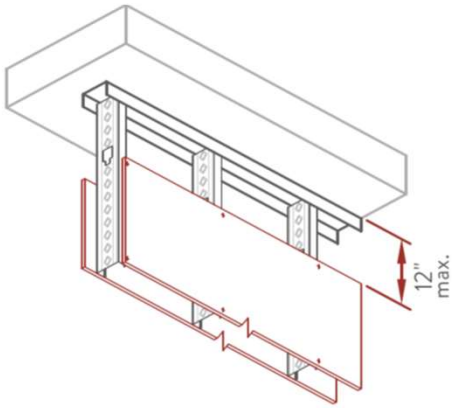
Composite limiting height data can be applied to walls where gypsum board is installed on both flanges of the stud for the full height of the wall. ProSTUD composite data is based on the 2015 International Building Code and was tested and analyzed in accordance with the most recent version of AC86 (2015).



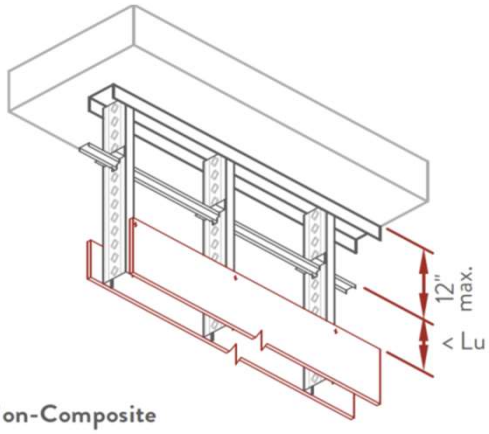
Composite
Gypsum board
full height on both sides

Noncomposite Fully Braced Walls

Non-Composite conditions are common in all structures. These assemblies occur when the gypsum board stops at the ceiling level, but the stud continues to the deck. The pictures below show some variations of braced non-composite walls.



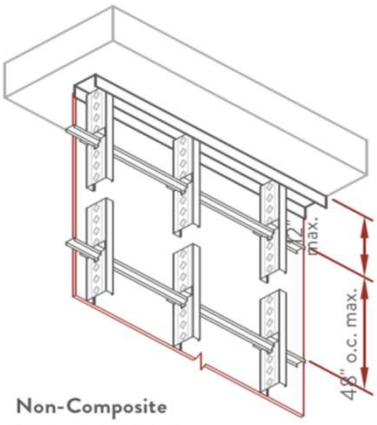
Non-Composite
FULLY BRACED



Non-Composite
FULLY BRACED
Bracing spacing above
gypsum is less than Lu

Noncomposite Walls Braced at 48"o.c.

When walls do not have sheathing or discrete bracing that satisfy either of the above requirements, walls may be constructed with bracing / bridging members installed at 48" on center vertically.



Non-Composite
BRACED AT 48" o.c.
Gypsum board placed on only one side

Other Assemblies

For assemblies not listed above, the conditions may vary greatly depending on the building requirements. While the provided non-composite tables may be used conservatively, please consult an architecture before performing any work.

RAM ProSTUD® Composite Wall Spans

5/8" Type X Gypsum Board - 1 Layer Full Ht. Ea. Side

Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf			15 psf[1]		
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
1-5/8"	ProSTUD 25 162PDS125-15	12	14' 1"	11' 7"	10' 1"	12' 3"	10' 1"	8' 7"	11' 2"	9' 1"	---	8' 2" f	---	---
		16	12' 9"	10' 6"	9' 0"	11' 2"	9' 1"	---	10' 2"	8' 1"	---	---	---	---
		24	11' 2"	9' 1"	---	9' 9"	---	---	8' 5"	---	---	---	---	---
	ProSTUD 20 162PDS125-18	12	13' 2"	11' 5"	10' 0"	11' 6"	10' 0"	8' 5"	10' 6"	8' 9"	---	7' 10" f	---	---
		16	12' 10"	11' 1"	9' 9"	11' 2"	9' 8"	7' 11"	10' 2"	8' 4"	---	---	---	---
		24	11' 10"	10' 3"	8' 6"	10' 4"	8' 5"	---	9' 2"	---	---	---	---	---
	ProSTUD 20LTD 162PDS125-19[2]	12	14' 10"	12' 11"	11' 2"	12' 11"	11' 3"	9' 9"	11' 9"	10' 3"	8' 8"	9' 3" f	8' 7"	---
		16	13' 5"	11' 8"	10' 1"	11' 9"	10' 3"	8' 8"	10' 8"	9' 2"	---	8' 0" f	---	---
		24	11' 9"	10' 3"	8' 8"	10' 3"	8' 8"	---	9' 2"	---	---	---	---	---
	ProSTUD 30 162PDS125-30	12	16' 3"	12' 11"	11' 3"	14' 3"	11' 3"	9' 10"	12' 11"	10' 3"	8' 8"	11' 3"	8' 8"	---
		16	14' 9"	11' 9"	10' 3"	12' 11"	10' 3"	8' 8"	11' 9"	9' 2"	---	10' 3" f	---	---
		24	12' 11"	10' 3"	8' 8"	11' 3"	8' 8"	---	10' 3"	---	---	8' 4" f	---	---
	ProSTUD 33 162PDS125-33	12	17' 0"	13' 6"	11' 10"	14' 10"	11' 10"	10' 4"	13' 6"	10' 9"	9' 3"	11' 10"	9' 3"	---
		16	15' 6"	12' 3"	10' 9"	13' 6"	10' 9"	9' 3"	12' 3"	9' 9"	---	10' 7" f	8' 2"	---
		24	13' 6"	10' 9"	9' 3"	11' 10"	9' 3"	---	10' 9"	---	---	8' 8" f	---	---
2-1/2"	ProSTUD 25 250PDS125-15	12	17' 2"	14' 8"	13' 0"	15' 0"	12' 10"	11' 4"	13' 3" f	11' 8"	10' 4"	8' 8" f	8' 8" f	8' 6"
		16	15' 7"	13' 4"	11' 9"	13' 3" f	11' 8"	10' 4"	11' 5" f	10' 7"	9' 1"	---	---	---
		24	13' 3" f	11' 8"	10' 4"	10' 10" f	10' 2"	8' 6"	9' 4" f	8' 11"	---	---	---	---
	ProSTUD 20 250PDS125-18	12	17' 5"	14' 8"	12' 11"	15' 3"	12' 10"	11' 3"	13' 10"	11' 8"	10' 3"	9' 11" f	9' 11" f	8' 7"
		16	16' 8"	14' 0"	12' 4"	14' 6"	12' 3"	10' 9"	13' 2"	11' 2" f	9' 9"	8' 11" f	8' 11" f	7' 11"
		24	15' 2"	12' 10"	11' 3"	13' 2" f	11' 2"	9' 10"	11' 5" f	10' 2"	8' 5"	---	---	---
	ProSTUD 20LTD 250PDS125-19[2]	12	18' 1"	15' 9"	14' 0"	15' 9"	13' 9"	12' 3"	14' 4"	12' 6"	11' 1"	10' 9" f	10' 9" f	9' 8"
		16	16' 5"	14' 4"	12' 8"	14' 4"	12' 6"	11' 1"	13' 0"	11' 4"	10' 1"	9' 4" f	9' 4" f	8' 7"
		24	14' 4"	12' 6"	11' 1"	12' 6" f	10' 11"	9' 8"	11' 5"	9' 11"	8' 7"	---	---	---
	ProSTUD 30 250PDS125-30	12	19' 9"	16' 3"	14' 4"	17' 3"	14' 2"	12' 6"	15' 8"	12' 11"	11' 4"	13' 4" f	11' 3"	9' 11"
		16	17' 11"	14' 9"	13' 0"	15' 8"	12' 11"	11' 4"	14' 3"	11' 9"	10' 4"	11' 7" f	10' 3"	8' 8"
		24	15' 8"	12' 11"	11' 4"	13' 8" f	11' 3"	9' 11"	12' 5"	10' 3"	8' 8"	9' 5" f	8' 8"	---
	ProSTUD 33 250PDS125-33	12	20' 4"	16' 9"	14' 9"	17' 9"	14' 7"	12' 10"	16' 2"	13' 3"	11' 8"	13' 10" f	11' 7"	10' 3"
		16	18' 6"	15' 2"	13' 5"	16' 2"	13' 3"	11' 8"	14' 8"	12' 1"	10' 7"	12' 0"	10' 7"	9' 1"
		24	16' 2"	13' 3"	11' 8"	14' 1"	11' 7"	10' 3"	12' 10"	10' 7"	9' 1"	9' 9" f	9' 0"	---

Table Notes

[1] Provided for information only, AISI S220 limits nonstructural framing to less than 10psf

[2] Check availability prior to specification

- Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2015.
- Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program was 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 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 shall be spaced at 16"o.c. for studs spaced at 16"o.c. & 12"o.c., and spaced at 12"o.c. for studs spaced at 24"o.c.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.

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.

RAM ProSTUD® Composite Wall Spans

5/8" Type X Gypsum Board - 1 Layer Full Ht. Ea. Side

Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf			15 psf[1]		
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
3-5/8"	ProSTUD 25 362PDS125-15	12	21' 6"	17' 1"	14' 11"	18' 4" f	14' 11"	13' 0"	15' 10" f	13' 7"	11' 10"	10' 5" f	10' 5" f	10' 1"
		16	19' 5" f	15' 6"	13' 7"	15' 10" f	13' 7"	11' 10"	13' 9" f	12' 4"	10' 7"	9' 0" f	9' 0" f	9' 0" f
		24	15' 10" f	13' 7"	11' 10"	12' 11" f	11' 10"	10' 1"	11' 2" f	10' 7"	9' 0"	---	---	---
	ProSTUD 20 362PDS125-18	12	22' 0"	18' 2"	15' 8"	19' 3"	15' 10"	13' 8"	17' 6"	14' 5"	12' 5"	12' 0" f	12' 0" f	10' 8"
		16	20' 6"	16' 10"	14' 7"	17' 11"	14' 9"	12' 9"	16' 3"	13' 5"	11' 6"	10' 9" f	10' 9" f	9' 10"
		24	18' 4"	15' 1"	13' 0"	15' 11" f	13' 2"	11' 4"	13' 9" f	12' 0"	10' 1"	9' 1" f	9' 1" f	8' 8"
	ProSTUD 20LTD 362PDS125-19[2]	12	23' 3"	18' 5"	16' 1"	20' 4"	16' 1"	14' 1"	18' 5"	14' 8"	12' 10"	12' 7" f	12' 7" f	11' 1"
		16	21' 1"	16' 9"	14' 8"	18' 5"	14' 8"	12' 10"	16' 7" f	13' 4"	11' 7"	10' 11" f	10' 11" f	9' 11"
		24	18' 5"	14' 8"	12' 10"	15' 8" f	12' 10"	11' 1"	13' 7" f	11' 7"	9' 11"	8' 11" f	8' 11" f	8' 6"
	ProSTUD 30 362PDS125-30	12	25' 8"	20' 5"	17' 10"	22' 5"	17' 10"	15' 7"	20' 5"	16' 2"	14' 2"	16' 1" f	14' 2"	12' 3"
		16	23' 4"	18' 6"	16' 2"	20' 5"	16' 2"	14' 2"	18' 6"	14' 8"	12' 10"	14' 0" f	12' 10"	11' 0"
		24	20' 5"	16' 2"	14' 2"	17' 10"	14' 2"	12' 3"	16' 2"	12' 10"	11' 0"	11' 5" f	11' 0"	---
	ProSTUD 33 362PDS125-33	12	26' 7"	21' 2"	18' 5"	23' 3"	18' 5"	16' 1"	21' 2"	16' 9"	14' 8"	16' 9" f	14' 8"	12' 10"
		16	24' 2"	19' 2"	16' 9"	21' 2"	16' 9"	14' 8"	19' 2"	15' 3"	13' 4"	14' 6" f	13' 4"	11' 6"
		24	21' 2"	16' 9"	14' 8"	18' 5"	14' 8"	12' 10"	16' 9"	13' 4"	11' 6"	11' 10" f	11' 6"	---
6"	ProSTUD 25 600PDS125-15	12	27' 10" f	24' 2"	21' 5"	22' 9" f	21' 1"	18' 8"	19' 8" f	19' 2"	17' 0"	12' 11" f	12' 11" f	12' 11" f
		16	24' 1" f	21' 11"	19' 5"	19' 8" f	19' 2"	17' 0"	17' 1" f	17' 1" f	15' 5"	---	---	---
		24	19' 8" f	19' 2"	17' 0"	16' 1" f	16' 1" f	14' 9"	13' 11" f	13' 11" f	13' 4"	---	---	---
	ProSTUD 20 600PDS125-18	12	32' 1"	25' 6"	22' 3"	28' 1"	22' 3"	19' 5"	24' 4" f	20' 3"	17' 8"	16' 0" f	16' 0" f	15' 5"
		16	29' 10"	23' 8"	20' 8"	24' 10" f	20' 8"	18' 1"	21' 6" f	18' 9"	16' 5"	14' 2" f	14' 2" f	14' 2" f
		24	25' 5" f	21' 1"	18' 5"	20' 9" f	18' 5"	16' 1"	18' 0" f	16' 9"	14' 6"	11' 10" f	11' 10" f	11' 10" f
	ProSTUD 20LTD 600PDS125-19[2]	12	32' 0"	26' 5"	23' 2"	28' 0"	23' 1"	20' 3"	24' 9" f	21' 0"	18' 5"	16' 3" f	16' 3" f	16' 1"
		16	29' 1"	24' 0"	21' 1"	24' 9" f	21' 0"	18' 5"	21' 5" f	19' 1"	16' 9"	14' 1" f	14' 1" f	14' 1" f
		24	24' 9" f	21' 0"	18' 5"	20' 3" f	18' 4"	16' 1"	17' 6" f	16' 8"	14' 4"	---	---	---
	ProSTUD 30 600PDS125-30	12	36' 7"	29' 1"	25' 5"	32' 0"	25' 5"	22' 2"	29' 1"	23' 1"	20' 2"	20' 11" f	20' 2"	17' 7"
		16	33' 3"	26' 5"	23' 1"	29' 1"	23' 1"	20' 2"	26' 5"	20' 11"	18' 4"	18' 2" f	18' 2" f	---
		24	29' 1"	23' 1"	20' 2"	25' 5"	20' 2"	17' 7"	22' 6" f	18' 4"	---	---	---	---
	ProSTUD 33 600PDS125-33	12	36' 8"	30' 1"	26' 6"	32' 0"	26' 3"	23' 2"	29' 1"	23' 10"	21' 0"	21' 9" f	20' 10"	18' 4"
		16	33' 3"	27' 4"	24' 1"	29' 1"	23' 10"	21' 0"	26' 5"	21' 8"	19' 1"	18' 10" f	18' 10" f	---
		24	29' 1"	23' 10"	21' 0"	25' 5"	20' 10"	18' 4"	23' 1"	18' 11"	---	---	---	---

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Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf			15 psf[1]		
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
3-1/2"	ProSTUD 25 350PDS125-15	12	21' 4" f	16' 11"	15' 0"	17' 5" f	14' 9"	13' 1"	15' 1" f	13' 5"	11' 10"	9' 11" f	9' 11" f	9' 11" f
		16	18' 6" f	15' 4"	13' 7"	15' 1" f	13' 5"	11' 10"	13' 1" f	12' 2"	10' 8"	8' 7" f	8' 7" f	8' 7" f
		24	15' 1" f	13' 5"	11' 10"	12' 4" f	11' 8"	10' 2"	10' 8" f	10' 5"	9' 1"	---	---	---
	ProSTUD 20 350PDS125-18[3]	12	22' 6"	17' 10"	15' 7"	19' 4"	15' 7"	13' 8"	17' 5"	14' 2"	12' 5"	11' 9" f	11' 9" f	10' 8"
		16	20' 2"	16' 2"	14' 2"	17' 5"	14' 2"	12' 5"	15' 5" f	12' 10"	11' 2"	10' 2" f	10' 2" f	9' 6"
		24	17' 5"	14' 2"	12' 5"	14' 7" f	12' 4"	10' 9"	12' 7" f	11' 2"	9' 8"	8' 4" f	8' 4" f	8' 1"
	ProSTUD 20LTD 350PDS125-19[2]	12	22' 10"	18' 1"	15' 10"	19' 11"	15' 10"	13' 10"	18' 1"	14' 4"	12' 7"	12' 4" f	12' 4" f	10' 11"
		16	20' 9"	16' 5"	14' 4"	18' 1"	14' 4"	12' 7"	16' 2" f	13' 1"	11' 4"	10' 8" f	10' 8" f	9' 10"
		24	18' 1"	14' 4"	12' 7"	15' 3" f	12' 7"	10' 11"	13' 3" f	11' 4"	9' 10"	8' 8" f	8' 8" f	8' 6"
	ProSTUD 30 350PDS125-30	12	25' 4"	20' 2"	17' 7"	22' 2"	17' 7"	15' 4"	20' 2"	16' 0"	13' 11"	16' 0" f	13' 11"	12' 2"
		16	23' 0"	18' 3"	16' 0"	20' 2"	16' 0"	13' 11"	18' 3"	14' 6"	12' 8"	13' 10" f	12' 8"	10' 11"
		24	20' 2"	16' 0"	13' 11"	17' 7"	13' 11"	12' 2"	16' 0"	12' 8"	10' 11"	11' 4" f	10' 11"	---
	ProSTUD 33 350PDS125-33	12	26' 3"	20' 10"	18' 2"	22' 11"	18' 2"	15' 11"	20' 10"	16' 6"	14' 5"	16' 6" f	14' 5"	12' 7"
		16	23' 10"	18' 11"	16' 6"	20' 10"	16' 6"	14' 5"	18' 11"	15' 0"	13' 1"	14' 4" f	13' 1"	11' 3"
		24	20' 10"	16' 6"	14' 5"	18' 2"	14' 5"	12' 7"	16' 6"	13' 1"	11' 3"	11' 8" f	11' 3"	---
4"	ProSTUD 25 400PDS125-15	12	22' 8"	18' 0"	15' 9"	19' 1" f	15' 9"	13' 9"	16' 6" f	14' 4"	12' 6"	10' 10" f	10' 10" f	10' 8"
		16	20' 3" f	16' 4"	14' 4"	16' 6" f	14' 4"	12' 6"	14' 4" f	13' 0"	11' 3"	9' 5" f	9' 5" f	9' 5" f
		24	16' 6" f	14' 4"	12' 6"	13' 6" f	12' 6"	10' 8"	11' 8" f	11' 3"	9' 6"	---	---	---
	ProSTUD 20 400PDS125-18	12	22' 9"	18' 8"	16' 4"	19' 11"	16' 4"	14' 3"	18' 1"	14' 10"	13' 0"	12' 6" f	12' 6" f	11' 3"
		16	21' 4"	17' 7"	15' 4"	18' 8"	15' 4"	13' 5"	16' 11"	13' 11"	12' 2"	11' 2" f	11' 2" f	10' 5"
		24	19' 3"	15' 10"	13' 10"	16' 7" f	13' 10"	12' 1"	14' 4" f	12' 6"	10' 9"	9' 5" f	9' 5" f	9' 1"
	ProSTUD 20LTD 400PDS125-19[2]	12	24' 4"	20' 2"	17' 9"	21' 3"	17' 8"	15' 6"	19' 4"	16' 0"	14' 1"	13' 4" f	13' 4" f	12' 4"
		16	22' 2"	18' 4"	16' 1"	19' 4"	16' 0"	14' 1"	17' 7" f	14' 7"	12' 9"	11' 6" f	11' 6" f	11' 0"
		24	19' 4"	16' 0"	14' 1"	16' 6" f	14' 0"	12' 4"	14' 4" f	12' 9"	11' 0"	9' 5" f	9' 5" f	9' 3"
	ProSTUD 30 400PDS125-30	12	27' 5"	21' 9"	19' 0"	24' 0"	19' 0"	16' 8"	21' 9"	17' 4"	15' 1"	16' 11" f	15' 1"	13' 2"
		16	24' 11"	19' 10"	17' 4"	21' 9"	17' 4"	15' 1"	19' 10"	15' 9"	13' 9"	14' 8" f	13' 9"	11' 10"
		24	21' 9"	17' 4"	15' 1"	19' 0"	15' 1"	13' 2"	17' 4"	13' 9"	11' 10"	12' 0" f	11' 10"	10' 2"
	ProSTUD 33 400PDS125-33	12	27' 10"	22' 9"	20' 1"	24' 3"	19' 11"	17' 7"	22' 1"	18' 1"	15' 11"	17' 10" f	15' 10"	13' 11"
		16	25' 3"	20' 8"	18' 3"	22' 1"	18' 1"	15' 11"	20' 1"	16' 5"	14' 6"	15' 5" f	14' 4"	12' 8"
		24	22' 1"	18' 1"	15' 11"	19' 3"	15' 10"	13' 11"	17' 6"	14' 4"	12' 8"	12' 7" f	12' 6"	10' 8"

Table Notes

[1] Provided for information only, AISI S220 limits nonstructural framing to less than 10psf

[2] Check availability prior to specification

[3] Values are linerally interpolated between 15mil and 19mil products

- Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2015.
- Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program was 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 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 shall be spaced at 16"o.c. for studs spaced at 16"o.c. & 12"o.c., and spaced at 12"o.c. for studs spaced at 24"o.c.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.

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.

RAM ProTRAK® Lateral Capacity

Lateral Load & Allowable Wall Height

ProTRAK Size	Design Thickness (in)	Yield Strength (ksi)	2" Leg Track with 1/2" Gap		2-1/2" Leg Track with 3/4" Gap		3" Leg Track with 1" Gap	
			Allowable Load (lbs)	Limiting Wall Height	Allowable Load (lbs)	Limiting Wall Height	Allowable Load (lbs)	Limiting Wall Height
ProTRAK 25	0.0158	50	36	10' 8"	24	7' 2"	18	5' 4"
ProSTUD 20	0.0190	70	52	15' 6"	34	10' 4"	26	7' 9"
ProSTUD 20LTD	0.0200	65	57	17' 2"	38	11' 5"	29	8' 7"
ProSTUD 30	0.0312	33	92	27' 6"	61	18' 4"	46	13' 9"
ProSTUD 33	0.0346	33	113	33' 10"	75	22' 7"	56	16' 11"

Table Notes

- Limiting wall heights are based on studs spaced at 16" o.c. and an interior lateral load of 5psf.
- Stud members must be analyzed independently of the track system.

RAM ProSTUD® Noncomposite Wall Spans

NONCOMPOSITE FULLY BRACED[2]

Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf			Max. Brace Spacing, L_u (in.)
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	
1-5/8"	ProSTUD 25 162PDS125-15	12	9' 2"	7' 4"	6' 4"	8' 0"	6' 4"	5' 7"	6' 11"	5' 9"	5' 1"	24.8"
		16	8' 4"	6' 8"	5' 9"	6' 11"	5' 9"	5' 1"	6' 0"	5' 3"	4' 7"	
		24	6' 11"	5' 9"	5' 1"	5' 8"	5' 1"	4' 5"	4' 11"	4' 7"	4' 0"	
	ProSTUD 20 162PDS125-18	12	9' 9"	7' 9"	6' 9"	8' 6"	6' 9"	5' 11"	7' 9"	6' 2"	5' 4"	24.8"
		16	8' 10"	7' 0"	6' 2"	7' 9"	6' 2"	5' 4"	7' 0"	5' 7"	4' 10"	
		24	7' 9"	6' 2"	5' 4"	6' 9"	5' 4"	4' 8"	6' 2"	4' 10"	4' 3"	
	ProSTUD 20LTD 162PDS125-19[1]	12	9' 11"	7' 10"	6' 10"	8' 8"	6' 10"	6' 0"	7' 10"	6' 3"	5' 5"	22.0"
		16	9' 0"	7' 2"	6' 3"	7' 10"	6' 3"	5' 5"	7' 2"	5' 8"	4' 11"	
		24	7' 10"	6' 3"	5' 5"	6' 10"	5' 5"	4' 9"	6' 3"	4' 11"	4' 4"	
	ProSTUD 30 162PDS125-30	12	11' 10"	9' 5"	8' 3"	10' 4"	8' 3"	7' 2"	9' 5"	7' 6"	6' 6"	30.8
		16	10' 9"	8' 7"	7' 6"	9' 5"	7' 6"	6' 6"	8' 2"	6' 9"	5' 11"	
		24	9' 5"	7' 6"	6' 6"	7' 8"	6' 6"	5' 8"	6' 8"	5' 11"	5' 2"	
	ProSTUD 33 162PDS125-33	12	12' 3"	9' 9"	8' 6"	10' 8"	8' 6"	7' 5"	9' 9"	7' 9"	6' 9"	30.8
		16	11' 2"	8' 10"	7' 9"	9' 9"	7' 9"	6' 9"	8' 9"	7' 0"	6' 1"	
		24	9' 9"	7' 9"	6' 9"	8' 3"	6' 9"	5' 11"	7' 2"	6' 1"	5' 4"	
2-1/2"	ProSTUD 25 250PDS125-15	12	12' 8"	10' 2"	8' 11"	10' 4"	8' 11"	7' 9"	8' 11"	8' 1"	7' 1"	24.5"
		16	10' 11"	9' 3"	8' 1"	8' 11"	8' 1"	7' 1"	7' 9"	7' 4"	6' 5"	
		24	8' 11"	8' 1"	7' 1"	7' 4"	7' 1"	6' 2"	6' 4"	6' 4"	5' 7"	
	ProSTUD 20 250PDS125-18	12	13' 9"	10' 11"	9' 6"	12' 0"	9' 6"	8' 4"	10' 11"	8' 8"	7' 7"	24.5"
		16	12' 6"	9' 11"	8' 8"	10' 11"	8' 8"	7' 7"	9' 11"	7' 10"	6' 10"	
		24	10' 11"	8' 8"	7' 7"	9' 6"	7' 7"	6' 7"	8' 4"	6' 10"	6' 0"	
	ProSTUD 20LTD 250PDS125-19[1]	12	14' 0"	11' 1"	9' 8"	12' 3"	9' 8"	8' 6"	11' 1"	8' 10"	7' 8"	22.2"
		16	12' 8"	10' 1"	8' 10"	11' 1"	8' 10"	7' 8"	10' 1"	8' 0"	7' 0"	
		24	11' 1"	8' 10"	7' 8"	9' 8"	7' 8"	6' 9"	8' 5"	7' 0"	6' 1"	
	ProSTUD 30 250PDS125-30	12	16' 5"	13' 0"	11' 4"	14' 4"	11' 4"	9' 11"	12' 6"	10' 4"	9' 0"	30.1"
		16	14' 11"	11' 10"	10' 4"	12' 6"	10' 4"	9' 0"	10' 10"	9' 5"	8' 2"	
		24	12' 6"	10' 4"	9' 0"	10' 3"	9' 0"	7' 11"	8' 10"	8' 2"	7' 2"	
	ProSTUD 33 250PDS125-33	12	16' 11"	13' 5"	11' 9"	14' 10"	11' 9"	10' 3"	13' 5"	10' 8"	9' 4"	30.1"
		16	15' 5"	12' 3"	10' 8"	13' 5"	10' 8"	9' 4"	11' 7"	9' 8"	8' 6"	
		24	13' 5"	10' 8"	9' 4"	10' 11"	9' 4"	8' 2"	9' 6"	8' 6"	7' 5"	

Table Notes

[1] Check availability prior to specification

[2] Unbraced length shall be less than or equal to L_u

- Calculated vlues are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.

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.

RAM ProSTUD® Noncomposite Wall Spans

NONCOMPOSITE 48"oc BRACING[2]

Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf		
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
1-5/8"	ProSTUD 25 162PDS125-15	12	8' 1"	7' 4"	6' 4"	6' 7"	6' 4"	5' 7"	5' 9"	5' 9"	5' 1"
		16	7' 0"	6' 8"	5' 9"	5' 9"	5' 9"	5' 1"	4' 11"	4' 11"	4' 7"
		24	5' 9"	5' 9"	5' 1"	4' 8"	4' 8"	4' 5"	4' 0"	4' 0"	4' 0"
	ProSTUD 20 162PDS125-18	12	9' 6"	7' 9"	6' 9"	7' 9"	6' 9"	5' 11"	6' 9"	6' 2"	5' 4"
		16	8' 3"	7' 0"	6' 2"	6' 9"	6' 2"	5' 4"	5' 10"	5' 7"	4' 10"
		24	6' 9"	6' 2"	5' 4"	5' 6"	5' 4"	4' 8"	4' 9"	4' 9"	4' 3"
	ProSTUD 20LTD 162PDS125-19[1]	12	9' 11"	7' 10"	6' 10"	8' 6"	6' 10"	6' 0"	7' 4"	6' 3"	5' 5"
		16	9' 0"	7' 2"	6' 3"	7' 4"	6' 3"	5' 5"	6' 4"	5' 8"	4' 11"
		24	7' 4"	6' 3"	5' 5"	6' 0"	5' 5"	4' 9"	5' 2"	4' 11"	4' 4"
	ProSTUD 30 162PDS125-30	12	11' 10"	9' 5"	8' 3"	10' 3"	8' 3"	7' 2"	8' 11"	7' 6"	6' 6"
		16	10' 9"	8' 7"	7' 6"	8' 11"	7' 6"	6' 6"	7' 8"	6' 9"	5' 11"
		24	8' 11"	7' 6"	6' 6"	7' 3"	6' 6"	5' 8"	6' 3"	5' 11"	5' 2"
	ProSTUD 33 162PDS125-33	12	12' 3"	9' 9"	8' 6"	10' 8"	8' 6"	7' 5"	9' 5"	7' 9"	6' 9"
		16	11' 2"	8' 10"	7' 9"	9' 5"	7' 9"	6' 9"	8' 2"	7' 0"	6' 1"
		24	9' 5"	7' 9"	6' 9"	7' 8"	6' 9"	5' 11"	6' 8"	6' 1"	5' 4"
2-1/2"	ProSTUD 25 250PDS125-15	12	10' 5"	10' 2"	8' 11"	8' 6"	8' 6"	7' 9"	7' 4"	7' 4"	7' 1"
		16	9' 0"	9' 0"	8' 1"	7' 4"	7' 4"	7' 1"	6' 5"	6' 5"	6' 5"
		24	7' 4"	7' 4"	7' 1"	6' 0"	6' 0"	6' 0"	5' 3"	5' 3"	5' 3"
	ProSTUD 20 250PDS125-18	12	13' 5"	10' 11"	9' 6"	10' 11"	9' 6"	8' 4"	9' 6"	8' 8"	7' 7"
		16	11' 7"	9' 11"	8' 8"	9' 6"	8' 8"	7' 7"	8' 3"	7' 10"	6' 10"
		24	9' 6"	8' 8"	7' 7"	7' 9"	7' 7"	6' 7"	6' 8"	6' 8"	6' 0"
	ProSTUD 20LTD 250PDS125-19[1]	12	13' 10"	11' 1"	9' 8"	11' 4"	9' 8"	8' 6"	9' 9"	8' 10"	7' 8"
		16	12' 0"	10' 1"	8' 10"	9' 9"	8' 10"	7' 8"	8' 6"	8' 0"	7' 0"
		24	9' 9"	8' 10"	7' 8"	8' 0"	7' 8"	6' 9"	6' 11"	6' 11"	6' 1"
	ProSTUD 30 250PDS125-30	12	16' 5"	13' 0"	11' 4"	13' 8"	11' 4"	9' 11"	11' 10"	10' 4"	9' 0"
		16	14' 6"	11' 10"	10' 4"	11' 10"	10' 4"	9' 0"	10' 3"	9' 5"	8' 2"
		24	11' 10"	10' 4"	9' 0"	9' 8"	9' 0"	7' 11"	8' 4"	8' 2"	7' 2"
	ProSTUD 33 250PDS125-33	12	16' 11"	13' 5"	11' 9"	14' 4"	11' 9"	10' 3"	12' 5"	10' 8"	9' 4"
		16	15' 3"	12' 3"	10' 8"	12' 5"	10' 8"	9' 4"	10' 9"	9' 8"	8' 6"
		24	12' 5"	10' 8"	9' 4"	10' 2"	9' 4"	8' 2"	8' 10"	8' 6"	7' 5"

Table Notes

[1] Check availability prior to specification

[2] Lateral bracing required at a maximum of 48"o.c.

- Calculated vlues are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.

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.

RAM ProSTUD® Noncomposite Wall Spans

NONCOMPOSITE FULLY BRACED[2]

Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf			Max. Brace Spacing, L_u (in.)
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	
3-5/8"	ProSTUD 25 362PDS125-15[3]	12	15' 0"	13' 7"	11' 10"	12' 3"	11' 10"	10' 4"	10' 7"	10' 7"	9' 5"	24.3"
		16	13' 0"	12' 4"	10' 9"	10' 7"	10' 7"	9' 5"	9' 2"	9' 2"	8' 6"	
		24	10' 7"	10' 7"	9' 5"	8' 8"	8' 8"	8' 3"	7' 6"	7' 6"	7' 5"	
	ProSTUD 20 362PDS125-18	12	18' 4"	14' 6"	12' 8"	16' 0"	12' 8"	11' 1"	14' 5"	11' 6"	10' 1"	24.3"
		16	16' 8"	13' 2"	11' 6"	14' 5"	11' 6"	10' 1"	12' 5"	10' 6"	9' 2"	
		24	14' 5"	11' 6"	10' 1"	11' 9"	10' 1"	8' 10"	10' 2"	9' 2"	8' 0"	
	ProSTUD 20LTD 362PDS125-19[1]	12	18' 10"	14' 11"	13' 0"	16' 5"	13' 0"	11' 5"	14' 5"	11' 10"	10' 4"	22.1"
		16	17' 1"	13' 7"	11' 10"	14' 5"	11' 10"	10' 4"	12' 5"	10' 9"	9' 5"	
		24	14' 5"	11' 10"	10' 4"	11' 9"	10' 4"	9' 0"	10' 2"	9' 5"	8' 3"	
	ProSTUD 30 362PDS125-30	12	21' 2"	17' 4"	15' 2"	17' 3"	15' 2"	13' 3"	15' 0"	13' 9"	12' 0"	29.7"
		16	18' 4"	15' 9"	13' 9"	15' 0"	13' 9"	12' 0"	12' 11"	12' 6"	10' 11"	
		24	15' 0"	13' 9"	12' 0"	12' 3"	12' 0"	10' 6"	10' 7"	10' 7"	9' 6"	
	ProSTUD 33 362PDS125-33	12	22' 7"	17' 11"	15' 8"	18' 9"	15' 8"	13' 8"	16' 3"	14' 3"	12' 5"	29.6"
		16	19' 10"	16' 3"	14' 3"	16' 3"	14' 3"	12' 5"	14' 0"	12' 11"	11' 3"	
		24	16' 3"	14' 3"	12' 5"	13' 3"	12' 5"	10' 10"	11' 6"	11' 3"	9' 10"	
6"	ProSTUD 25 600PDS125-15[3]	12	19' 3"	19' 2"	16' 9"	15' 9"	15' 9"	14' 8"	11' 11"	11' 11"	11' 11"	23.6"
		16	16' 8"	16' 8"	15' 3"	11' 11"	11' 11"	11' 11"	8' 11"	8' 11"	8' 11"	
		24	11' 11"	11' 11"	11' 11"	7' 11"	7' 11"	7' 11"	6' 0"	6' 0"	6' 0"	
	ProSTUD 20 600PDS125-18[3]	12	26' 0"	20' 8"	18' 0"	21' 11"	18' 0"	15' 9"	19' 0"	16' 4"	14' 4"	23.6"
		16	23' 3"	18' 9"	16' 4"	19' 0"	16' 4"	14' 4"	15' 7"	14' 11"	13' 0"	
		24	19' 0"	16' 4"	14' 4"	13' 10"	13' 10"	12' 6"	10' 5"	10' 5"	10' 5"	
	ProSTUD 20LTD 600PDS125-19[1,3]	12	26' 9"	21' 2"	18' 6"	21' 11"	18' 6"	16' 2"	19' 0"	16' 10"	14' 8"	21.9"
		16	23' 3"	19' 3"	16' 10"	19' 0"	16' 10"	14' 8"	16' 6"	15' 3"	13' 4"	
		24	19' 0"	16' 10"	14' 8"	15' 6"	14' 8"	12' 10"	12' 1"	12' 1"	11' 8"	
	ProSTUD 30 600PDS125-30	12	28' 4"	25' 7"	22' 4"	23' 2"	22' 4"	19' 7"	20' 1"	20' 1"	17' 9"	28.7"
		16	24' 7"	23' 3"	20' 4"	20' 1"	20' 1"	17' 9"	17' 4"	17' 4"	16' 2"	
		24	20' 1"	20' 1"	17' 9"	16' 4"	16' 4"	15' 6"	14' 2"	14' 2"	14' 1"	
	ProSTUD 33 600PDS125-33	12	30' 7"	26' 7"	23' 2"	25' 0"	23' 2"	20' 3"	21' 8"	21' 1"	18' 5"	28.6"
		16	26' 6"	24' 1"	21' 1"	21' 8"	21' 1"	18' 5"	18' 9"	18' 9"	16' 9"	
		24	21' 8"	21' 1"	18' 5"	17' 8"	17' 8"	16' 1"	15' 4"	15' 4"	14' 7"	

Table Notes

[1] Check availability prior to specification

[2] Unbraced length shall be less than or equal to L_u

[3] Width-to-thickness ratios exceed Specification Limits, web stiffeners required at ends

- Calculated vlues are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.

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.

RAM ProSTUD® Noncomposite Wall Spans

NONCOMPOSITE 48"oc BRACING[3]

Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf		
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
3-5/8"	ProSTUD 25 362PDS125-15[3]	12	12' 5"	12' 5"	11' 10"	10' 1"	10' 1"	10' 1"	8' 9"	8' 9"	8' 9"
		16	10' 9"	10' 9"	10' 9"	8' 9"	8' 9"	8' 9"	7' 7"	7' 7"	7' 7"
		24	8' 9"	8' 9"	8' 9"	7' 2"	7' 2"	7' 2"	6' 2"	6' 2"	6' 2"
	ProSTUD 20 362PDS125-18	12	15' 2"	14' 6"	12' 8"	12' 5"	12' 5"	11' 1"	10' 9"	10' 9"	10' 1"
		16	13' 2"	13' 2"	11' 6"	10' 9"	10' 9"	10' 1"	9' 4"	9' 4"	9' 2"
		24	10' 9"	10' 9"	10' 1"	8' 9"	8' 9"	8' 9"	7' 7"	7' 7"	7' 7"
	ProSTUD 20LTD 362PDS125-19[1]	12	16' 9"	14' 11"	13' 0"	13' 8"	13' 0"	11' 5"	11' 10"	11' 10"	10' 4"
		16	14' 6"	13' 7"	11' 10"	11' 10"	11' 10"	10' 4"	10' 3"	10' 3"	9' 5"
		24	11' 10"	11' 10"	10' 4"	9' 8"	9' 8"	9' 0"	8' 5"	8' 5"	8' 3"
	ProSTUD 30 362PDS125-30	12	20' 0"	17' 4"	15' 2"	16' 4"	15' 2"	13' 3"	14' 1"	13' 9"	12' 0"
		16	17' 3"	15' 9"	13' 9"	14' 1"	13' 9"	12' 0"	12' 3"	12' 3"	10' 11"
		24	14' 1"	13' 9"	12' 0"	11' 6"	11' 6"	10' 6"	10' 0"	10' 0"	9' 6"
	ProSTUD 33 362PDS125-33	12	21' 3"	17' 11"	15' 8"	17' 4"	15' 8"	13' 8"	15' 0"	14' 3"	12' 5"
		16	18' 5"	16' 3"	14' 3"	15' 0"	14' 3"	12' 5"	13' 0"	12' 11"	11' 3"
		24	15' 0"	14' 3"	12' 5"	12' 3"	12' 3"	10' 10"	10' 8"	10' 8"	9' 10"
6"	ProSTUD 25 600PDS125-15[3]	12	15' 11"	15' 11"	15' 11"	13' 0"	13' 0"	13' 0"	11' 3"	11' 3"	11' 3"
		16	13' 9"	13' 9"	13' 9"	11' 3"	11' 3"	11' 3"	8' 11"	8' 11"	8' 11"
		24	11' 3"	11' 3"	11' 3"	7' 11"	7' 11"	7' 11"	6' 0"	6' 0"	6' 0"
	ProSTUD 20 600PDS125-18[3]	12	20' 10"	20' 8"	18' 0"	17' 0"	17' 0"	15' 9"	14' 8"	14' 8"	14' 4"
		16	18' 0"	18' 0"	16' 4"	14' 8"	14' 8"	14' 4"	12' 9"	12' 9"	12' 9"
		24	14' 8"	14' 8"	14' 4"	12' 0"	12' 0"	12' 0"	10' 5"	10' 5"	10' 5"
	ProSTUD 20LTD 600PDS125-19[1,3]	12	22' 2"	21' 2"	18' 6"	18' 1"	18' 1"	16' 2"	15' 8"	15' 8"	14' 8"
		16	19' 2"	19' 2"	16' 10"	15' 8"	15' 8"	14' 8"	13' 7"	13' 7"	13' 4"
		24	15' 8"	15' 8"	14' 8"	12' 10"	12' 10"	12' 10"	11' 1"	11' 1"	11' 1"
	ProSTUD 30 600PDS125-30	12	26' 9"	25' 7"	22' 4"	21' 10"	21' 10"	19' 7"	18' 11"	18' 11"	17' 9"
		16	23' 2"	23' 2"	20' 4"	18' 11"	18' 11"	17' 9"	16' 5"	16' 5"	16' 2"
		24	18' 11"	18' 11"	17' 9"	15' 5"	15' 5"	15' 5"	13' 5"	13' 5"	13' 5"
	ProSTUD 33 600PDS125-33	12	28' 4"	26' 7"	23' 2"	23' 2"	23' 2"	20' 3"	20' 1"	20' 1"	18' 5"
		16	24' 7"	24' 1"	21' 1"	20' 1"	20' 1"	18' 5"	17' 5"	17' 5"	16' 9"
		24	20' 1"	20' 1"	18' 5"	16' 5"	16' 5"	16' 1"	14' 2"	14' 2"	14' 2"

Table Notes

[1] Check availability prior to specification

[2] Lateral bracing required at a maximum of 48"o.c.

[3] Width-to-thickness ratios exceed Specification Limits, web stiffeners required at ends

- Calculated vlues are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.

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.

RAM ProSTUD® Noncomposite Wall Spans

NONCOMPOSITE FULLY BRACED[2]

Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf			Max. Brace Spacing, L_u (in.)
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	
3-1/2"	ProSTUD 25 350PDS125-15[3]	12	14' 9"	13' 3"	11' 7"	12' 0"	11' 7"	10' 1"	10' 5"	10' 5"	9' 2"	24.3"
		16	12' 9"	12' 0"	10' 6"	10' 5"	10' 5"	9' 2"	9' 0"	9' 0"	8' 4"	
		24	10' 5"	10' 5"	9' 2"	8' 6"	8' 6"	8' 0"	7' 4"	7' 4"	7' 3"	
	ProSTUD 20 350PDS125-18	12	17' 10"	14' 2"	12' 5"	15' 7"	12' 5"	10' 10"	14' 1"	11' 3"	9' 10"	24.3"
		16	16' 3"	12' 11"	11' 3"	14' 1"	11' 3"	9' 10"	12' 3"	10' 3"	8' 11"	
		24	14' 1"	11' 3"	9' 10"	11' 6"	9' 10"	8' 7"	10' 0"	8' 11"	7' 10"	
	ProSTUD 20LTD 350PDS125-19[1]	12	18' 3"	14' 6"	12' 8"	16' 0"	12' 8"	11' 1"	14' 1"	11' 6"	10' 1"	22.1"
		16	16' 7"	13' 2"	11' 6"	14' 1"	11' 6"	10' 1"	12' 3"	10' 6"	9' 2"	
		24	14' 1"	11' 6"	10' 1"	11' 6"	10' 1"	8' 10"	10' 0"	9' 2"	8' 0"	
	ProSTUD 30 350PDS125-30	12	20' 9"	16' 10"	14' 9"	16' 11"	14' 9"	12' 10"	14' 8"	13' 4"	11' 8"	29.7"
		16	18' 0"	15' 4"	13' 4"	14' 8"	13' 4"	11' 8"	12' 9"	12' 2"	10' 7"	
		24	14' 8"	13' 4"	11' 8"	12' 0"	11' 8"	10' 2"	10' 5"	10' 5"	9' 3"	
	ProSTUD 33 350PDS125-33	12	22' 0"	17' 5"	15' 3"	18' 4"	15' 3"	13' 4"	15' 11"	13' 10"	12' 1"	29.7"
		16	19' 6"	15' 10"	13' 10"	15' 11"	13' 10"	12' 1"	13' 9"	12' 7"	11' 0"	
		24	15' 11"	13' 10"	12' 1"	13' 0"	12' 1"	10' 7"	11' 3"	11' 0"	9' 7"	
4"	ProSTUD 25 400PDS125-15[3]	12	15' 9"	14' 6"	12' 8"	12' 11"	12' 8"	11' 1"	11' 2"	11' 2"	10' 1"	24.2"
		16	13' 8"	13' 2"	11' 6"	11' 2"	11' 2"	10' 1"	9' 8"	9' 8"	9' 2"	
		24	11' 2"	11' 2"	10' 1"	9' 1"	9' 1"	8' 9"	7' 11"	7' 11"	7' 11"	
	ProSTUD 20 400PDS125-18	12	19' 7"	15' 6"	13' 7"	17' 1"	13' 7"	11' 10"	15' 4"	12' 4"	10' 9"	22.2"
		16	17' 9"	14' 1"	12' 4"	15' 4"	12' 4"	10' 9"	13' 3"	11' 2"	9' 9"	
		24	15' 4"	12' 4"	10' 9"	12' 6"	10' 9"	9' 5"	10' 10"	9' 9"	8' 7"	
	ProSTUD 20LTD 400PDS125-19[1]	12	20' 3"	16' 1"	14' 0"	17' 8"	14' 0"	12' 3"	15' 4"	12' 9"	11' 2"	22.2"
		16	18' 5"	14' 7"	12' 9"	15' 4"	12' 9"	11' 2"	13' 4"	11' 7"	10' 1"	
		24	15' 4"	12' 9"	11' 2"	12' 6"	11' 2"	9' 9"	10' 10"	10' 1"	8' 10"	
	ProSTUD 30 400PDS125-30	12	22' 4"	18' 8"	16' 4"	18' 3"	16' 4"	14' 3"	15' 9"	14' 10"	13' 0"	29.5"
		16	19' 4"	17' 0"	14' 10"	15' 9"	14' 10"	13' 0"	13' 8"	13' 6"	11' 9"	
		24	15' 9"	14' 10"	13' 0"	12' 11"	12' 11"	11' 4"	11' 2"	11' 2"	10' 3"	
	ProSTUD 33 400PDS125-33	12	24' 2"	19' 4"	16' 11"	19' 9"	16' 11"	14' 9"	17' 1"	15' 4"	13' 5"	29.5"
		16	21' 0"	17' 7"	15' 4"	17' 1"	15' 4"	13' 5"	14' 10"	13' 11"	12' 2"	
		24	17' 1"	15' 4"	13' 5"	14' 0"	13' 5"	11' 9"	12' 1"	12' 1"	10' 8"	

Table Notes

[1] Check availability prior to specification

[2] Unbraced length shall be less than or equal to L_u

[3] Width-to-thickness ratios exceed Specification Limits, web stiffeners required at ends

- Calculated vlues are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.

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.

RAM ProSTUD® Noncomposite Wall Spans

NONCOMPOSITE 48"oc BRACING[2]

Width	Stud Member	Spacing	5 psf			7.5 psf			10 psf		
		(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
3-1/2"	ProSTUD 25 350PDS125-15[3]	12	12' 2"	12' 2"	11' 7"	9' 11"	9' 11"	9' 11"	8' 7"	8' 7"	8' 7"
		16	10' 6"	10' 6"	10' 6"	8' 7"	8' 7"	8' 7"	7' 5"	7' 5"	7' 5"
		24	8' 7"	8' 7"	8' 7"	7' 0"	7' 0"	7' 0"	6' 1"	6' 1"	6' 1"
	ProSTUD 20 350PDS125-18	12	14' 11"	14' 2"	12' 5"	12' 2"	12' 2"	10' 10"	10' 7"	10' 7"	9' 10"
		16	12' 11"	12' 11"	11' 3"	10' 7"	10' 7"	9' 10"	9' 2"	9' 2"	8' 11"
		24	10' 7"	10' 7"	9' 10"	8' 7"	8' 7"	8' 7"	7' 6"	7' 6"	7' 6"
	ProSTUD 20LTD 350PDS125-19[1]	12	16' 6"	14' 6"	12' 8"	13' 5"	12' 8"	11' 1"	11' 8"	11' 6"	10' 1"
		16	14' 3"	13' 2"	11' 6"	11' 8"	11' 6"	10' 1"	10' 1"	10' 1"	9' 2"
		24	11' 8"	11' 6"	10' 1"	9' 6"	9' 6"	8' 10"	8' 3"	8' 3"	8' 0"
	ProSTUD 30 350PDS125-30	12	19' 7"	16' 10"	14' 9"	16' 0"	14' 9"	12' 10"	13' 10"	13' 4"	11' 8"
		16	17' 0"	15' 4"	13' 4"	13' 10"	13' 4"	11' 8"	12' 0"	12' 0"	10' 7"
		24	13' 10"	13' 4"	11' 8"	11' 4"	11' 4"	10' 2"	9' 9"	9' 9"	9' 3"
	ProSTUD 33 350PDS125-33	12	20' 10"	17' 5"	15' 3"	17' 0"	15' 3"	13' 4"	14' 9"	13' 10"	12' 1"
		16	18' 1"	15' 10"	13' 10"	14' 9"	13' 10"	12' 1"	12' 9"	12' 7"	11' 0"
		24	14' 9"	13' 10"	12' 1"	12' 0"	12' 0"	10' 7"	10' 5"	10' 5"	9' 7"
4"	ProSTUD 25 400PDS125-15[3]	12	13' 0"	13' 0"	12' 8"	10' 8"	10' 8"	10' 8"	9' 2"	9' 2"	9' 2"
		16	11' 3"	11' 3"	11' 3"	9' 2"	9' 2"	9' 2"	8' 0"	8' 0"	8' 0"
		24	9' 2"	9' 2"	9' 2"	7' 6"	7' 6"	7' 6"	6' 6"	6' 6"	6' 6"
	ProSTUD 20 400PDS125-18	12	16' 3"	15' 6"	13' 7"	13' 3"	13' 3"	11' 10"	11' 6"	11' 6"	10' 9"
		16	14' 1"	14' 1"	12' 4"	11' 6"	11' 6"	10' 9"	9' 11"	9' 11"	9' 9"
		24	11' 6"	11' 6"	10' 9"	9' 4"	9' 4"	9' 4"	8' 1"	8' 1"	8' 1"
	ProSTUD 20LTD 400PDS125-19[1]	12	17' 11"	16' 1"	14' 0"	14' 7"	14' 0"	12' 3"	12' 8"	12' 8"	11' 2"
		16	15' 6"	14' 7"	12' 9"	12' 8"	12' 8"	11' 2"	11' 0"	11' 0"	10' 1"
		24	12' 8"	12' 8"	11' 2"	10' 4"	10' 4"	9' 9"	8' 11"	8' 11"	8' 10"
	ProSTUD 30 400PDS125-30	12	21' 1"	18' 8"	16' 4"	17' 2"	16' 4"	14' 3"	14' 11"	14' 10"	13' 0"
		16	18' 3"	17' 0"	14' 10"	14' 11"	14' 10"	13' 0"	12' 11"	12' 11"	11' 9"
		24	14' 11"	14' 10"	13' 0"	12' 2"	12' 2"	11' 4"	10' 6"	10' 6"	10' 3"
	ProSTUD 33 400PDS125-33	12	22' 5"	19' 4"	16' 11"	18' 4"	16' 11"	14' 9"	15' 10"	15' 4"	13' 5"
		16	19' 5"	17' 7"	15' 4"	15' 10"	15' 4"	13' 5"	13' 9"	13' 9"	12' 2"
		24	15' 10"	15' 4"	13' 5"	13' 0"	13' 0"	11' 9"	11' 3"	11' 3"	10' 8"

Table Notes

[1] Check availability prior to specification

[2] Lateral bracing required at a maximum of 48"o.c.

[3] Width-to-thickness ratios exceed Specification Limits, web stiffeners required at ends

- Calculated vlues are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.

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.

RAM ProSTUD® Ceiling Spans

L/240 Deflection Limit

Width	Stud Member	4 psf Lateral Support of Compression Flange						6 psf Lateral Support of Compression Flange					
		Unsupported Joist Spacing (in) o.c.			Midspan Joist Spacing (in) o.c.			Unsupported Joist Spacing (in) o.c.			Midspan Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1-5/8"	ProSTUD 25	7' 3"	6' 8"	5' 11"	7' 10"	7' 2"	6' 3"	6' 5"	5' 11"	5' 3"	6' 10"	6' 3"	5' 5"
	ProSTUD 20	7' 10"	7' 3"	6' 6"	8' 4"	7' 7"	6' 8"	7' 1"	6' 6"	5' 9"	7' 4"	6' 8"	5' 10"
	ProSTUD 20LTD	7' 11"	7' 4"	6' 6"	8' 5"	7' 8"	6' 9"	7' 2"	6' 6"	5' 9"	7' 5"	6' 9"	5' 11"
	ProSTUD 30	9' 4"	8' 7"	7' 8"	9' 10"	9' 0"	7' 10"	8' 3"	7' 8"	6' 10"	8' 7"	7' 10"	6' 10"
	ProSTUD 33	9' 9"	9' 0"	8' 0"	10' 4"	9' 4"	8' 2"	8' 8"	8' 0"	7' 1"	9' 0"	8' 2"	7' 2"
2-1/2"	ProSTUD 25	8' 4"	7' 8"	6' 11"	10' 11"	9' 11"	8' 8"	7' 5"	6' 11"	6' 2"	9' 7"	8' 8"	7' 7"
	ProSTUD 20	9' 0"	8' 5"	7' 7"	11' 9"	10' 8"	9' 4"	8' 2"	7' 7"	6' 9"	10' 3"	9' 4"	8' 2"
	ProSTUD 20LTD	9' 1"	8' 5"	7' 7"	11' 11"	10' 10"	9' 6"	8' 2"	7' 7"	6' 10"	10' 5"	9' 6"	8' 3"
	ProSTUD 30	10' 4"	9' 7"	8' 6"	13' 8"	12' 5"	10' 10"	9' 3"	8' 6"	7' 8"	11' 11"	10' 10"	9' 6"
	ProSTUD 33	10' 9"	9' 11"	8' 10"	14' 3"	12' 11"	11' 3"	9' 7"	8' 10"	7' 11"	12' 5"	11' 3"	9' 10"
3-1/2"	ProSTUD 25	9' 1"	8' 5"	7' 6"	12' 7"	11' 6"	10' 2"	8' 2"	7' 6"	6' 8"	11' 1"	10' 2"	8' 10" e
	ProSTUD 20	9' 10"	9' 1"	8' 2"	13' 11"	12' 10"	11' 5"	8' 10"	8' 2"	7' 4"	12' 4"	11' 5"	10' 1"
	ProSTUD 20LTD	10' 0"	9' 4"	8' 4"	14' 4"	13' 2"	11' 9"	9' 0"	8' 4"	7' 6"	12' 9"	11' 9"	10' 5"
	ProSTUD 30	11' 2"	10' 4"	9' 3"	16' 0"	14' 10"	13' 4"	10' 0"	9' 3"	8' 4"	14' 5"	13' 4"	11' 11"
	ProSTUD 33	11' 7"	10' 8"	9' 7"	16' 6"	15' 3"	13' 9"	10' 4"	9' 7"	8' 7"	14' 10"	13' 9"	12' 4"
3-5/8"	ProSTUD 25	9' 2"	8' 6"	7' 7"	12' 9"	11' 8"	10' 3"	8' 3"	7' 7"	6' 9"	11' 3"	10' 3"	8' 11" e
	ProSTUD 20	9' 11"	9' 2"	8' 3"	14' 1"	12' 11"	11' 6"	8' 11"	8' 3"	7' 5"	12' 6"	11' 6"	10' 2"
	ProSTUD 20LTD	10' 2"	9' 5"	8' 5"	14' 6"	13' 4"	11' 10"	9' 1"	8' 5"	7' 7"	12' 11"	11' 10"	10' 6"
	ProSTUD 30	11' 3"	10' 5"	9' 4"	16' 2"	15' 0"	13' 6"	10' 1"	9' 4"	8' 5"	14' 7"	13' 6"	12' 0"
	ProSTUD 33	11' 8"	10' 9"	9' 8"	16' 8"	15' 5"	13' 11"	10' 5"	9' 8"	8' 8"	15' 0"	13' 11"	12' 6"
4"	ProSTUD 25	9' 5"	8' 9"	7' 10"	13' 1"	12' 0"	10' 7" e	8' 6"	7' 10"	6' 11" e	11' 7" e	10' 7" e	9' 3" e
	ProSTUD 20	10' 2"	9' 5"	8' 6"	14' 6"	13' 4"	11' 10"	9' 2"	8' 6"	7' 8"	12' 11"	11' 10"	10' 6"
	ProSTUD 20LTD	10' 5"	9' 8"	8' 8"	14' 11"	13' 9"	12' 3"	9' 5"	8' 8"	7' 10"	13' 4"	12' 3"	10' 11"
	ProSTUD 30	11' 7"	10' 9"	9' 8"	16' 8"	15' 6"	13' 11"	10' 5"	9' 8"	8' 8"	15' 0"	13' 11"	12' 5"
	ProSTUD 33	12' 0"	11' 1"	9' 11"	17' 2"	15' 11"	14' 4"	10' 9"	9' 11"	8' 11"	15' 5"	14' 4"	12' 10"
6"	ProSTUD 25	10' 8"	9' 10"	8' 10"	15' 0"	13' 9"	12' 2"	9' 6"	8' 10"	7' 11"	13' 3"	12' 2"	9' 11" e
	ProSTUD 20	11' 10"	10' 11"	9' 10"	16' 10"	15' 6"	13' 10"	10' 7"	9' 10"	8' 10"	15' 0"	13' 10"	12' 3"
	ProSTUD 20LTD	11' 11" e	11' 0" e	9' 11" e	17' 0" e	15' 9" e	14' 0" e	10' 8" e	9' 11" e	8' 11" e	15' 3" e	14' 0" e	12' 6" e
	ProSTUD 30	13' 1"	12' 2"	10' 11"	18' 11"	17' 6"	15' 8"	11' 9"	10' 11"	9' 10"	17' 0"	15' 8"	14' 1"
	ProSTUD 33	13' 6"	12' 6"	11' 3"	19' 6"	18' 1"	16' 3"	12' 2"	11' 3"	10' 1"	17' 6"	16' 3"	14' 7"

Table Notes:

- Load indicated (4psf & 6psf) is based on Dead Load only, no Live Load or internal pressure shall applied to these spans shown herein
- For unbraced sections, allowable moment is based on AISI S100-12 Section C3.1.2 with weak axis and torsional unbraced length assumed to be the listed span (completely unbraced). For mid-span braced sections, allowable moment based on AISI S100-12 Section C3.1.2 with weak axis and torsional unbraced length assumed to be one-half of the listed span (bracing at midspan).
- Web crippling calculation based on bearing length = 1 inch.
- Web crippling and shear capacity have not been reduced for punchouts. If web punchouts occur near support members must be checked for reduced shear and web crippling in accordance with the AISI S100-12.
- Values are for simple span conditions.

e Web stiffeners required at supports.

RAM ProSTUD® Ceiling Spans

L/360 Deflection Limit

Width	Stud Member	4 psf Lateral Support of Compression Flange						6 psf Lateral Support of Compression Flange					
		Unsupported Joist Spacing (in) o.c.			Midspan Joist Spacing (in) o.c.			Unsupported Joist Spacing (in) o.c.			Midspan Joist Spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1-5/8"	ProSTUD 25	6' 10"	6' 3"	5' 5"	6' 10"	6' 3"	5' 5"	6' 0"	5' 5"	4' 9"	6' 0"	5' 5"	4' 9"
	ProSTUD 20	7' 4"	6' 8"	5' 10"	7' 4"	6' 8"	5' 10"	6' 5"	5' 10"	5' 1"	6' 5"	5' 10"	5' 1"
	ProSTUD 20LTD	7' 5"	6' 9"	5' 11"	7' 5"	6' 9"	5' 11"	6' 5"	5' 11"	5' 2"	6' 6"	5' 11"	5' 2"
	ProSTUD 30	8' 7"	7' 10"	6' 10"	8' 7"	7' 10"	6' 10"	7' 6"	6' 10"	6' 0"	7' 6"	6' 10"	6' 0"
	ProSTUD 33	9' 0"	8' 2"	7' 2"	9' 0"	8' 2"	7' 2"	7' 10"	7' 2"	6' 3"	7' 10"	7' 2"	6' 3"
2-1/2"	ProSTUD 25	8' 4"	7' 8"	6' 11"	9' 7"	8' 8"	7' 7"	7' 5"	6' 11"	6' 2"	8' 4"	7' 7"	6' 8"
	ProSTUD 20	9' 0"	8' 5"	7' 7"	10' 3"	9' 4"	8' 2"	8' 2"	7' 7"	6' 9"	9' 0"	8' 2"	7' 2"
	ProSTUD 20LTD	9' 1"	8' 5"	7' 7"	10' 5"	9' 6"	8' 3"	8' 2"	7' 7"	6' 10"	9' 1"	8' 3"	7' 3"
	ProSTUD 30	10' 4"	9' 7"	8' 6"	11' 11"	10' 10"	9' 6"	9' 3"	8' 6"	7' 8"	10' 5"	9' 6"	8' 3"
	ProSTUD 33	10' 9"	9' 11"	8' 10"	12' 5"	11' 3"	9' 10"	9' 7"	8' 10"	7' 11"	10' 10"	9' 10"	8' 7"
3-1/2"	ProSTUD 25	9' 1"	8' 5"	7' 6"	12' 5"	11' 4"	9' 11"	8' 2"	7' 6"	6' 8"	10' 10"	9' 11"	8' 8" e
	ProSTUD 20	9' 10"	9' 1"	8' 2"	13' 5"	12' 2"	10' 8"	8' 10"	8' 2"	7' 4"	11' 8"	10' 8"	9' 3"
	ProSTUD 20LTD	10' 0"	9' 4"	8' 4"	13' 8"	12' 5"	10' 10"	9' 0"	8' 4"	7' 6"	11' 11"	10' 10"	9' 6"
	ProSTUD 30	11' 2"	10' 4"	9' 3"	15' 6"	14' 1"	12' 4"	10' 0"	9' 3"	8' 4"	13' 6"	12' 4"	10' 9"
	ProSTUD 33	11' 7"	10' 8"	9' 7"	16' 1"	14' 7"	12' 9"	10' 4"	9' 7"	8' 7"	14' 1"	12' 9"	11' 2"
3-5/8"	ProSTUD 25	9' 2"	8' 6"	7' 7"	12' 9"	11' 7"	10' 1"	8' 3"	7' 7"	6' 9"	11' 2"	10' 1"	8' 10" e
	ProSTUD 20	9' 11"	9' 2"	8' 3"	13' 9"	12' 6"	10' 11"	8' 11"	8' 3"	7' 5"	12' 0"	10' 11"	9' 6"
	ProSTUD 20LTD	10' 2"	9' 5"	8' 5"	14' 1"	12' 9"	11' 2"	9' 1"	8' 5"	7' 7"	12' 3"	11' 2"	9' 9"
	ProSTUD 30	11' 3"	10' 5"	9' 4"	15' 11"	14' 6"	12' 8"	10' 1"	9' 4"	8' 5"	13' 11"	12' 8"	11' 1"
	ProSTUD 33	11' 8"	10' 9"	9' 8"	16' 6"	15' 0"	13' 2"	10' 5"	9' 8"	8' 8"	14' 5"	13' 2"	11' 6"
4"	ProSTUD 25	9' 5"	8' 9"	7' 10"	13' 1"	12' 0"	10' 7" e	8' 6"	7' 10"	6' 11" e	11' 7" e	10' 7" e	9' 3" e
	ProSTUD 20	10' 2"	9' 5"	8' 6"	14' 6"	13' 4"	11' 8"	9' 2"	8' 6"	7' 8"	12' 10"	11' 8"	10' 2"
	ProSTUD 20LTD	10' 5"	9' 8"	8' 8"	14' 11"	13' 9"	12' 0"	9' 5"	8' 8"	7' 10"	13' 2"	12' 0"	10' 6"
	ProSTUD 30	11' 7"	10' 9"	9' 8"	16' 8"	15' 6"	13' 9"	10' 5"	9' 8"	8' 8"	15' 0"	13' 9"	12' 0"
	ProSTUD 33	12' 0"	11' 1"	9' 11"	17' 2"	15' 11"	14' 3"	10' 9"	9' 11"	8' 11"	15' 5"	14' 3"	12' 5"
6"	ProSTUD 25	10' 8"	9' 10"	8' 10"	15' 0"	13' 9"	12' 2"	9' 6"	8' 10"	7' 11"	13' 3"	12' 2"	9' 11" e
	ProSTUD 20	11' 10"	10' 11"	9' 10"	16' 10"	15' 6"	13' 10"	10' 7"	9' 10"	8' 10"	15' 0"	13' 10"	12' 3"
	ProSTUD 20LTD	11' 11" e	11' 0" e	9' 11" e	17' 0" e	15' 9" e	14' 0" e	10' 8" e	9' 11" e	8' 11" e	15' 3" e	14' 0" e	12' 6" e
	ProSTUD 30	13' 1"	12' 2"	10' 11"	18' 11"	17' 6"	15' 8"	11' 9"	10' 11"	9' 10"	17' 0"	15' 8"	14' 1"
	ProSTUD 33	13' 6"	12' 6"	11' 3"	19' 6"	18' 1"	16' 3"	12' 2"	11' 3"	10' 1"	17' 6"	16' 3"	14' 7"

Table Notes:

- Load indicated (4psf & 6psf) is based on Dead Load only, no Live Load or internal pressure shall applied to these spans shown herein
- For unbraced sections, allowable moment is based on AISI S100-12 Section C3.1.2 with weak axis and torsional unbraced length assumed to be the listed span (completely unbraced). For mid-span braced sections, allowable moment based on AISI S100-12 Section C3.1.2 with weak axis and torsional unbraced length assumed to be one-half of the listed span (bracing at midspan).
- Web crippling calculation based on bearing length = 1 inch.
- Web crippling and shear capacity have not been reduced for punchouts. If web punchouts occur near support members must be checked for reduced shear and web crippling in accordance with the AISI S100-12.
- Values are for simple span conditions.

e Web stiffeners required at supports.

RAM ProSTUD® 20 DRYWALL STUD

PHYSICAL PROPERTIES

Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy						Torsional Properties					L_u (in)
					I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Va_{net} (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β	
162PDS125-18	0.0190	70	0.086	0.29	0.040	0.685	0.019	0.468	0.039	0.035	0.028	1194	405	149	0.01032	0.012	-1.11	1.382	0.361	24.8
250PDS125-18	0.0190	70	0.104	0.35	0.107	1.017	0.023	0.470	0.043	0.099	0.056	2093	256	204	0.01250	0.031	-1.00	1.504	0.555	24.5
350PDS125-18	0.0190	70	0.123	0.42	0.234	1.377	0.026	0.458	0.044	0.217	0.071	2992	181	166	0.01484	0.065	-0.90	1.705	0.724	24.3
362PDS125-18	0.0190	70	0.126	0.43	0.254	1.421	0.026	0.456	0.044	0.234	0.074	3102	174	170	0.01512	0.070	-0.88	1.734	0.740	24.3
400PDS125-18[1]	0.0190	70	0.133	0.45	0.321	1.551	0.027	0.453	0.046	0.286	0.084	3511	157	157	0.01605	0.089	-0.86	1.830	0.780	24.2
600PDS125-18[2]	0.0190	70	0.173	0.59	0.855	2.223	0.032	0.431	0.046	0.669	0.141	5409	104	104	0.02083	0.233	-0.74	2.382	0.904	23.6

RAM ProTRAK® 20 DRYWALL TRACK

PHYSICAL PROPERTIES

Leg	Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy					Torsional Properties				
						I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β
1"	**162PDT100-18**	0.0190	50	0.069	0.23	0.034	0.699	0.007	0.325	0.028	0.024	0.022	647	380	0.0083	0.004	-0.66	1.013	0.580
	250PDT100-18	0.0190	50	0.085	0.29	0.087	1.008	0.008	0.311	0.029	0.067	0.035	1035	248	0.0103	0.010	-0.56	1.196	0.777
	350PDT100-18	0.0190	50	0.104	0.36	0.188	1.342	0.009	0.293	0.029	0.153	0.048	1440	176	0.0126	0.021	-0.49	1.458	0.888
	362PDT100-18	0.0190	50	0.107	0.36	0.204	1.382	0.009	0.291	0.029	0.167	0.050	1491	170	0.0129	0.022	-0.48	1.492	0.896
	400PDT100-18	0.0190	50	0.114	0.39	0.258	1.504	0.009	0.285	0.029	0.182	0.053	1601	154	0.0137	0.028	-0.46	1.597	0.918
	600PDT100-18[2]	0.0190	50	0.152	0.52	0.690	2.132	0.010	0.257	0.029	0.446	0.082	2443	102	0.0183	0.071	-0.37	2.178	0.971
1-1/4"	**162PDT125-18**	0.0190	50	0.078	0.27	0.040	0.718	0.013	0.411	0.028	0.027	0.022	663	380	0.0094	0.007	-0.88	1.207	0.470
	250PDT125-18	0.0190	50	0.095	0.32	0.102	1.038	0.015	0.400	0.029	0.073	0.034	1029	248	0.0114	0.017	-0.77	1.353	0.676
	350PDT125-18	0.0190	50	0.114	0.39	0.218	1.384	0.017	0.383	0.029	0.162	0.048	1445	176	0.0137	0.038	-0.68	1.587	0.818
	362PDT125-18	0.0190	50	0.116	0.40	0.236	1.426	0.017	0.380	0.029	0.173	0.050	1497	170	0.0140	0.041	-0.67	1.619	0.831
	400PDT125-18	0.0190	50	0.123	0.42	0.297	1.550	0.017	0.374	0.029	0.211	0.055	1653	154	0.0149	0.051	-0.64	1.718	0.862
	600PDT125-18[2]	0.0190	50	0.161	0.55	0.778	2.195	0.019	0.342	0.029	0.469	0.083	2473	102	0.0194	0.130	-0.52	2.282	0.947
1-1/2"	**162PDT150-18**	0.0190	50	0.088	0.30	0.047	0.733	0.022	0.496	0.028	0.029	0.022	653	380	0.0106	0.011	-1.11	1.418	0.390
	250PDT150-18	0.0190	50	0.104	0.36	0.118	1.063	0.025	0.488	0.029	0.079	0.034	1024	248	0.0126	0.029	-0.98	1.528	0.586
	350PDT150-18	0.0190	50	0.123	0.42	0.248	1.418	0.028	0.472	0.029	0.166	0.048	1446	176	0.0149	0.062	-0.88	1.732	0.745
	362PDT150-18	0.0190	50	0.126	0.43	0.269	1.461	0.028	0.470	0.029	0.178	0.050	1499	170	0.0151	0.067	-0.86	1.761	0.760
	400PDT150-18	0.0190	50	0.133	0.45	0.336	1.589	0.029	0.463	0.029	0.218	0.055	1658	154	0.0160	0.084	-0.83	1.852	0.799
	600PDT150-18[2]	0.0190	50	0.171	0.58	0.865	2.249	0.032	0.429	0.030	0.489	0.083	2494	102	0.0206	0.213	-0.69	2.392	0.916
2"	**162PDT200-18**	0.0190	50	0.107	0.36	0.061	0.753	0.047	0.662	0.028	0.032	0.021	642	380	0.0129	0.024	-1.58	1.869	0.288
	250PDT200-18	0.0190	50	0.123	0.42	0.149	1.099	0.054	0.661	0.029	0.088	0.034	1016	248	0.0149	0.063	-1.43	1.920	0.446
	350PDT200-18	0.0190	50	0.142	0.48	0.308	1.471	0.060	0.650	0.029	0.175	0.048	1446	176	0.0171	0.134	-1.30	2.065	0.607
	362PDT200-18	0.0190	50	0.145	0.49	0.333	1.517	0.061	0.648	0.029	0.188	0.050	1500	170	0.0174	0.145	-1.28	2.088	0.624
	400PDT200-18	0.0190	50	0.152	0.52	0.414	1.651	0.063	0.642	0.029	0.230	0.055	1661	154	0.0183	0.181	-1.24	2.161	0.672
	600PDT200-18[2]	0.0190	50	0.190	0.65	1.039	2.339	0.070	0.607	0.030	0.532	0.084	2525	102	0.0229	0.461	-1.06	2.637	0.840
2-1/2"	**162PDT250-18**	0.0190	50	0.126	0.43	0.074	0.767	0.085	0.823	0.028	0.035	0.021	635	380	0.0151	0.045	-2.06	2.344	0.231
	250PDT250-18	0.0190	50	0.142	0.48	0.180	1.125	0.098	0.830	0.029	0.091	0.034	1011	248	0.0171	0.115	-1.89	2.351	0.353
	350PDT250-18	0.0190	50	0.161	0.55	0.369	1.511	0.110	0.824	0.029	0.182	0.048	1444	176	0.0194	0.244	-1.74	2.444	0.496
	362PDT250-18	0.0190	50	0.164	0.56	0.398	1.558	0.111	0.823	0.029	0.195	0.050	1498	170	0.0197	0.264	-1.72	2.461	0.512
	400PDT250-18	0.0190	50	0.171	0.58	0.492	1.697	0.114	0.818	0.029	0.239	0.055	1661	154	0.0206	0.331	-1.67	2.517	0.560
	600PDT250-18[2]	0.0190	50	0.209	0.71	1.214	2.410	0.129	0.786	0.030	0.555	0.085	2533	102	0.0251	0.838	-1.45	2.920	0.753
3"	**162PDT300-18**	0.0190	50	0.145	0.49	0.088	0.777	0.139	0.981	0.028	0.036	0.021	633	380	0.0174	0.075	-2.54	2.832	0.195
	250PDT300-18	0.0190	50	0.161	0.55	0.211	1.144	0.160	0.995	0.029	0.092	0.034	1009	248	0.0194	0.191	-2.36	2.806	0.292
	350PDT300-18	0.0190	50	0.180	0.61	0.429	1.541	0.179	0.995	0.029	0.184	0.048	1443	176	0.0217	0.401	-2.19	2.857	0.413
	362PDT300-18	0.0190	50	0.183	0.62	0.462	1.590	0.181	0.994	0.029	0.198	0.050	1498	170	0.0220	0.434	-2.17	2.868	0.427
	400PDT300-18	0.0190	50	0.190	0.65	0.571	1.733	0.187	0.991	0.030	0.243	0.055	1661	154	0.0229	0.542	-2.11	2.908	0.472
	600PDT300-18[2]	0.0190	50	0.228	0.78	1.388	2.468	0.212	0.965	0.030	0.568	0.086	2582	102	0.0274	1.366	-1.86	3.239	0.669

Table Notes

- Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - Nonstructural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.
- Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus bend radius. ProTRAK hems are ignored.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.

1. Web-height to thickness ratio exceeds 200.
2. Web-height-to thickness ratio exceeds 260, or flange-width-to-thickness ratio exceeds 60.

RAM ProSTUD® 20LTD DRYWALL STUD

PHYSICAL PROPERTIES

Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy						Torsional Properties					L_u (in)
					I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Va_{net} (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β	
162PDS125-19	0.0200	65	0.090	0.31	0.042	0.685	0.020	0.466	0.042	0.037	0.031	1193	473	165	0.01197	0.012	-1.10	1.374	0.364	22.0
250PDS125-19	0.0200	65	0.109	0.37	0.112	1.017	0.024	0.467	0.046	0.104	0.061	2110	299	226	0.01449	0.032	-0.99	1.495	0.560	22.2
350PDS125-19	0.0200	65	0.129	0.44	0.245	1.376	0.027	0.456	0.048	0.233	0.077	2992	211	183	0.01724	0.067	-0.89	1.700	0.727	22.1
362PDS125-19	0.0200	65	0.132	0.45	0.266	1.420	0.027	0.454	0.048	0.254	0.080	3103	203	189	0.01757	0.072	-0.88	1.729	0.743	22.1
400PDS125-19	0.0200	65	0.140	0.48	0.336	1.550	0.028	0.451	0.050	0.316	0.091	3537	184	184	0.01865	0.092	-0.85	1.825	0.783	22.2
600PDS125-19[2]	0.0200	65	0.181	0.62	0.892	2.220	0.033	0.425	0.051	0.727	0.158	5421	121	121	0.02414	0.236	-0.72	2.373	0.907	21.9

RAM ProTRAK® 20LTD DRYWALL TRACK

PHYSICAL PROPERTIES

Leg	Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy					Torsional Properties					
						I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β	
1"	162PDT100-19	0.0200	50	0.072	0.25	0.035	0.700	0.008	0.325	0.031	0.026	0.023	692	421	0.0097	0.004	-0.66	1.013	0.580	
	250PDT100-19	0.0200	50	0.090	0.31	0.091	1.008	0.009	0.310	0.031	0.071	0.038	1146	289	0.0120	0.010	-0.56	1.196	0.778	
	350PDT100-19	0.0200	50	0.110	0.37	0.198	1.342	0.009	0.293	0.032	0.162	0.053	1589	206	0.0147	0.022	-0.49	1.458	0.888	
	362PDT100-19	0.0200	50	0.112	0.38	0.215	1.383	0.010	0.291	0.032	0.177	0.055	1645	199	0.0150	0.024	-0.48	1.492	0.897	
	400PDT100-19	0.0200	50	0.120	0.41	0.271	1.504	0.010	0.285	0.032	0.197	0.059	1755	180	0.0160	0.030	-0.46	1.597	0.918	
	600PDT100-19[2]	0.0200	50	0.160	0.54	0.727	2.132	0.011	0.257	0.032	0.483	0.090	2683	119	0.0213	0.075	-0.37	2.178	0.972	
1-1/4"	162PDT125-19	0.0200	50	0.082	0.28	0.043	0.719	0.014	0.411	0.031	0.028	0.024	718	421	0.0110	0.007	-0.88	1.207	0.470	
	250PDT125-19	0.0200	50	0.100	0.34	0.108	1.039	0.016	0.400	0.032	0.078	0.038	1136	289	0.0133	0.018	-0.77	1.353	0.677	
	350PDT125-19	0.0200	50	0.120	0.41	0.230	1.384	0.018	0.382	0.032	0.176	0.053	1593	206	0.0160	0.040	-0.68	1.587	0.819	
	362PDT125-19	0.0200	50	0.122	0.42	0.249	1.426	0.018	0.380	0.032	0.191	0.055	1650	199	0.0163	0.043	-0.67	1.619	0.831	
	400PDT125-19	0.0200	50	0.130	0.44	0.312	1.551	0.018	0.374	0.032	0.232	0.061	1822	180	0.0173	0.054	-0.64	1.718	0.862	
	600PDT125-19[2]	0.0200	50	0.170	0.58	0.819	2.195	0.020	0.342	0.032	0.508	0.091	2717	119	0.0227	0.137	-0.52	2.282	0.948	
1-1/2"	162PDT150-19	0.0200	50	0.092	0.31	0.050	0.733	0.023	0.496	0.031	0.030	0.024	721	421	0.0123	0.012	-1.11	1.418	0.390	
	250PDT150-19	0.0200	50	0.110	0.37	0.124	1.063	0.026	0.488	0.032	0.084	0.038	1129	289	0.0147	0.030	-0.98	1.528	0.586	
	350PDT150-19	0.0200	50	0.130	0.44	0.261	1.418	0.029	0.472	0.032	0.183	0.053	1593	206	0.0173	0.065	-0.87	1.732	0.745	
	362PDT150-19	0.0200	50	0.132	0.45	0.283	1.461	0.029	0.470	0.032	0.196	0.055	1652	199	0.0177	0.070	-0.86	1.761	0.760	
	400PDT150-19	0.0200	50	0.140	0.48	0.354	1.590	0.030	0.463	0.032	0.238	0.061	1826	180	0.0187	0.088	-0.83	1.852	0.799	
	600PDT150-19[2]	0.0200	50	0.180	0.61	0.910	2.249	0.033	0.429	0.033	0.530	0.092	2741	119	0.0240	0.224	-0.69	2.392	0.917	
2"	162PDT200-19	0.0200	50	0.112	0.38	0.064	0.754	0.049	0.662	0.031	0.034	0.024	707	421	0.0150	0.026	-1.58	1.868	0.288	
	250PDT200-19	0.0200	50	0.130	0.44	0.157	1.099	0.057	0.661	0.032	0.094	0.037	1119	289	0.0173	0.066	-1.43	1.920	0.446	
	350PDT200-19	0.0200	50	0.150	0.51	0.325	1.472	0.063	0.649	0.032	0.191	0.053	1592	206	0.0200	0.141	-1.29	2.065	0.607	
	362PDT200-19	0.0200	50	0.152	0.52	0.351	1.517	0.064	0.647	0.032	0.205	0.055	1651	199	0.0203	0.152	-1.28	2.088	0.624	
	400PDT200-19	0.0200	50	0.160	0.54	0.436	1.651	0.066	0.642	0.032	0.251	0.061	1829	180	0.0213	0.191	-1.24	2.161	0.672	
	600PDT200-19[2]	0.0200	50	0.200	0.68	1.094	2.339	0.074	0.607	0.033	0.580	0.093	2780	119	0.0267	0.485	-1.06	2.637	0.840	
2-1/2"	162PDT250-19	0.0200	50	0.132	0.45	0.078	0.768	0.090	0.823	0.031	0.037	0.023	698	421	0.0177	0.048	-2.06	2.343	0.231	
	250PDT250-19	0.0200	50	0.150	0.51	0.190	1.125	0.103	0.830	0.032	0.099	0.037	1113	289	0.0200	0.121	-1.89	2.351	0.354	
	350PDT250-19	0.0200	50	0.170	0.58	0.388	1.511	0.115	0.824	0.032	0.199	0.053	1589	206	0.0227	0.257	-1.74	2.444	0.496	
	362PDT250-19	0.0200	50	0.172	0.59	0.419	1.558	0.117	0.822	0.032	0.213	0.055	1649	199	0.0230	0.278	-1.72	2.461	0.513	
	400PDT250-19	0.0200	50	0.180	0.61	0.518	1.697	0.120	0.818	0.032	0.261	0.061	1829	180	0.0240	0.348	-1.67	2.517	0.561	
	600PDT250-19[2]	0.0200	50	0.220	0.75	1.278	2.410	0.136	0.786	0.033	0.605	0.093	2788	119	0.0293	0.881	-1.45	2.920	0.754	
3"	162PDT300-19	0.0200	50	0.152	0.52	0.092	0.778	0.147	0.981	0.031	0.049	0.022	727	421	0.0203	0.080	-2.54	2.831	0.195	
	250PDT300-19	0.0200	50	0.170	0.58	0.223	1.144	0.168	0.995	0.032	0.102	0.037	1108	289	0.0227	0.201	-2.36	2.806	0.292	
	350PDT300-19	0.0200	50	0.190	0.65	0.451	1.542	0.188	0.995	0.032	0.205	0.053	1587	206	0.0253	0.423	-2.19	2.856	0.413	
	362PDT300-19	0.0200	50	0.192	0.65	0.487	1.590	0.190	0.994	0.032	0.221	0.055	1647	199	0.0257	0.457	-2.17	2.868	0.428	
	400PDT300-19	0.0200	50	0.200	0.68	0.601	1.734	0.196	0.991	0.033	0.271	0.060	1790	180	0.0267	0.570	-2.11	2.908	0.472	
	600PDT300-19[2]	0.0200	50	0.240	0.82	1.461	2.468	0.223	0.964	0.033	0.650	0.094	2727	119	0.0320	1.438	-1.86	3.239	0.669	

Table Notes

- Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - Nonstructural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.
- Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus bend radius. ProTRAK hems are ignored.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.

1. Web-height to thickness ratio exceeds 200.
2. Web-height-to thickness ratio exceeds 260, or flange-width-to-thickness ratio exceeds 60.

RAM ProSTUD® 30MIL DRYWALL STUD

PHYSICAL PROPERTIES

Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy						Torsional Properties					L_u (in)
					I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Va_{net} (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β	
162PDS125-30	0.0312	33	0.137	0.47	0.064	0.681	0.029	0.458	0.098	0.064	0.067	1332	572	124	0.04459	0.017	-1.07	1.348	0.371	30.8
250PDS125-30	0.0312	33	0.165	0.56	0.169	1.012	0.034	0.451	0.106	0.168	0.121	2356	832	397	0.05345	0.042	-0.94	1.454	0.581	30.1
350PDS125-30	0.0312	33	0.196	0.67	0.367	1.368	0.037	0.436	0.107	0.365	0.164	3231	805	444	0.06357	0.089	-0.83	1.659	0.749	29.7
362PDS125-30	0.0312	33	0.200	0.68	0.398	1.411	0.038	0.434	0.107	0.396	0.170	3358	776	457	0.06484	0.096	-0.82	1.689	0.764	29.7
400PDS125-30	0.0312	33	0.212	0.72	0.501	1.540	0.039	0.428	0.108	0.499	0.189	3737	701	490	0.06864	0.120	-0.79	1.781	0.805	29.5
600PDS125-30	0.0312	33	0.274	0.93	1.324	2.199	0.043	0.396	0.109	1.281	0.338	6031	461	461	0.08888	0.303	-0.65	2.327	0.922	28.7

RAM ProTRAK® 30MIL DRYWALL TRACK

PHYSICAL PROPERTIES

Leg	Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy					Torsional Properties				
						I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β
1"	162PDT100-30	0.0312	33	0.113	0.38	0.056	0.703	0.012	0.322	0.078	0.049	0.046	908	610	0.0366	0.006	-0.65	1.011	0.586
	250PDT100-30	0.0312	33	0.140	0.48	0.143	1.011	0.013	0.308	0.083	0.127	0.083	1635	832	0.0455	0.016	-0.56	1.196	0.782
	350PDT100-30	0.0312	33	0.171	0.58	0.310	1.344	0.015	0.291	0.086	0.279	0.135	2666	781	0.0556	0.034	-0.48	1.458	0.890
	362PDT100-30	0.0312	33	0.175	0.60	0.336	1.385	0.015	0.289	0.086	0.303	0.142	2810	755	0.0569	0.037	-0.48	1.492	0.899
	400PDT100-30	0.0312	33	0.187	0.64	0.424	1.506	0.015	0.283	0.087	0.388	0.148	2927	683	0.0607	0.046	-0.45	1.598	0.920
	600PDT100-30	0.0312	33	0.249	0.85	1.135	2.133	0.016	0.255	0.088	1.004	0.234	4625	454	0.0809	0.115	-0.36	2.179	0.972
1-1/4"	162PDT125-30	0.0312	33	0.128	0.44	0.067	0.722	0.022	0.409	0.080	0.054	0.048	951	610	0.0417	0.011	-0.87	1.204	0.475
	250PDT125-30	0.0312	33	0.156	0.53	0.169	1.042	0.025	0.397	0.084	0.140	0.087	1713	832	0.0505	0.029	-0.76	1.351	0.681
	350PDT125-30	0.0312	33	0.187	0.64	0.359	1.386	0.027	0.380	0.087	0.304	0.141	2789	781	0.0607	0.062	-0.67	1.586	0.821
	362PDT125-30	0.0312	33	0.191	0.65	0.389	1.428	0.027	0.378	0.087	0.330	0.149	2938	755	0.0619	0.067	-0.66	1.619	0.833
	400PDT125-30	0.0312	33	0.203	0.69	0.489	1.553	0.028	0.371	0.088	0.417	0.172	3407	683	0.0657	0.084	-0.63	1.718	0.864
	600PDT125-30	0.0312	33	0.265	0.90	1.278	2.196	0.031	0.340	0.090	1.074	0.240	4737	454	0.0860	0.212	-0.52	2.282	0.948
1-1/2"	162PDT150-30	0.0312	33	0.144	0.49	0.078	0.737	0.035	0.494	0.080	0.059	0.050	983	610	0.0467	0.018	-1.10	1.414	0.394
	250PDT150-30	0.0312	33	0.171	0.58	0.195	1.066	0.040	0.486	0.085	0.151	0.090	1773	832	0.0556	0.047	-0.98	1.526	0.590
	350PDT150-30	0.0312	33	0.203	0.69	0.409	1.421	0.045	0.470	0.088	0.326	0.146	2887	781	0.0657	0.101	-0.87	1.731	0.748
	362PDT150-30	0.0312	33	0.206	0.70	0.443	1.464	0.045	0.468	0.088	0.354	0.154	3042	755	0.0670	0.109	-0.86	1.760	0.763
	400PDT150-30	0.0312	33	0.218	0.74	0.553	1.592	0.046	0.461	0.088	0.446	0.178	3526	683	0.0708	0.137	-0.83	1.851	0.802
	600PDT150-30	0.0312	33	0.281	0.96	1.422	2.251	0.051	0.427	0.090	1.136	0.244	4818	454	0.0910	0.347	-0.69	2.392	0.918
2"	162PDT200-30	0.0312	33	0.175	0.60	0.101	0.758	0.076	0.660	0.081	0.067	0.052	1028	610	0.0569	0.040	-1.57	1.864	0.291
	250PDT200-30	0.0312	33	0.203	0.69	0.246	1.103	0.088	0.659	0.086	0.170	0.094	1862	832	0.0657	0.103	-1.42	1.917	0.449
	350PDT200-30	0.0312	33	0.234	0.80	0.509	1.475	0.098	0.647	0.088	0.365	0.154	3039	781	0.0759	0.219	-1.29	2.063	0.610
	362PDT200-30	0.0312	33	0.238	0.81	0.549	1.520	0.099	0.645	0.089	0.397	0.160	3159	755	0.0771	0.237	-1.27	2.086	0.627
	400PDT200-30	0.0312	33	0.249	0.85	0.682	1.654	0.102	0.639	0.089	0.502	0.176	3480	683	0.0809	0.297	-1.23	2.160	0.674
	600PDT200-30	0.0312	33	0.312	1.06	1.710	2.342	0.114	0.605	0.091	1.353	0.262	5170	454	0.1012	0.754	-1.05	2.637	0.841
2-1/2"	162PDT250-30	0.0312	33	0.206	0.70	0.123	0.772	0.139	0.821	0.082	0.073	0.054	1059	610	0.0670	0.075	-2.05	2.338	0.233
	250PDT250-30	0.0312	33	0.234	0.80	0.298	1.129	0.160	0.828	0.086	0.186	0.097	1926	832	0.0759	0.190	-1.88	2.347	0.356
	350PDT250-30	0.0312	33	0.265	0.90	0.608	1.515	0.179	0.822	0.089	0.401	0.151	2987	781	0.0860	0.402	-1.73	2.441	0.498
	362PDT250-30	0.0312	33	0.269	0.92	0.656	1.562	0.181	0.820	0.089	0.436	0.157	3097	755	0.0872	0.435	-1.71	2.458	0.515
	400PDT250-30	0.0312	33	0.281	0.96	0.812	1.701	0.187	0.816	0.090	0.551	0.173	3425	683	0.0910	0.543	-1.66	2.514	0.563
	600PDT250-30	0.0312	33	0.343	1.17	1.997	2.413	0.211	0.784	0.092	1.473	0.261	5162	454	0.1113	1.373	-1.44	2.919	0.755
3"	162PDT300-30	0.0312	33	0.238	0.81	0.146	0.783	0.228	0.979	0.082	0.078	0.055	1081	610	0.0771	0.125	-2.53	2.826	0.197
	250PDT300-30	0.0312	33	0.265	0.90	0.350	1.149	0.261	0.993	0.087	0.199	0.100	1973	832	0.0860	0.315	-2.35	2.801	0.294
	350PDT300-30	0.0312	33	0.296	1.01	0.707	1.546	0.292	0.993	0.089	0.432	0.149	2945	781	0.0961	0.661	-2.18	2.853	0.415
	362PDT300-30	0.0312	33	0.300	1.02	0.762	1.594	0.295	0.992	0.089	0.470	0.155	3056	755	0.0974	0.714	-2.16	2.864	0.430
	400PDT300-30	0.0312	33	0.312	1.06	0.941	1.737	0.305	0.989	0.090	0.593	0.171	3387	683	0.1012	0.891	-2.11	2.905	0.474
	600PDT300-30	0.0312	33	0.374	1.27	2.285	2.471	0.346	0.962	0.092	1.580	0.261	5152	454	0.1214	2.241	-1.86	3.237	0.671

Table Notes

- Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - Nonstructural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.
- Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus bend radius. ProTRAK hems are ignored.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.

1. Web-height to thickness ratio exceeds 200.
2. Web-height-to thickness ratio exceeds 260, or flange-width-to-thickness ratio exceeds 60.

RAM ProSTUD® 30MIL DRYWALL STUD

PHYSICAL PROPERTIES

Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy						Torsional Properties					L_u (in)
					I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Va_{net} (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β	
162PDS125-30	0.0312	33	0.137	0.47	0.064	0.681	0.029	0.458	0.098	0.064	0.067	1332	572	124	0.04459	0.017	-1.07	1.348	0.371	30.8
250PDS125-30	0.0312	33	0.165	0.56	0.169	1.012	0.034	0.451	0.106	0.168	0.121	2356	832	397	0.05345	0.042	-0.94	1.454	0.581	30.1
350PDS125-30	0.0312	33	0.196	0.67	0.367	1.368	0.037	0.436	0.107	0.365	0.164	3231	805	444	0.06357	0.089	-0.83	1.659	0.749	29.7
362PDS125-30	0.0312	33	0.200	0.68	0.398	1.411	0.038	0.434	0.107	0.396	0.170	3358	776	457	0.06484	0.096	-0.82	1.689	0.764	29.7
400PDS125-30	0.0312	33	0.212	0.72	0.501	1.540	0.039	0.428	0.108	0.499	0.189	3737	701	490	0.06864	0.120	-0.79	1.781	0.805	29.5
600PDS125-30	0.0312	33	0.274	0.93	1.324	2.199	0.043	0.396	0.109	1.281	0.338	6031	461	461	0.08888	0.303	-0.65	2.327	0.922	28.7

RAM ProTRAK® 30MIL DRYWALL TRACK

PHYSICAL PROPERTIES

Leg	Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy					Torsional Properties				
						I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β
1"	162PDT100-30	0.0312	33	0.113	0.38	0.056	0.703	0.012	0.322	0.078	0.049	0.046	908	610	0.0366	0.006	-0.65	1.011	0.586
	250PDT100-30	0.0312	33	0.140	0.48	0.143	1.011	0.013	0.308	0.083	0.127	0.083	1635	832	0.0455	0.016	-0.56	1.196	0.782
	350PDT100-30	0.0312	33	0.171	0.58	0.310	1.344	0.015	0.291	0.086	0.279	0.135	2666	781	0.0556	0.034	-0.48	1.458	0.890
	362PDT100-30	0.0312	33	0.175	0.60	0.336	1.385	0.015	0.289	0.086	0.303	0.142	2810	755	0.0569	0.037	-0.48	1.492	0.899
	400PDT100-30	0.0312	33	0.187	0.64	0.424	1.506	0.015	0.283	0.087	0.388	0.148	2927	683	0.0607	0.046	-0.45	1.598	0.920
	600PDT100-30	0.0312	33	0.249	0.85	1.135	2.133	0.016	0.255	0.088	1.004	0.234	4625	454	0.0809	0.115	-0.36	2.179	0.972
1-1/4"	162PDT125-30	0.0312	33	0.128	0.44	0.067	0.722	0.022	0.409	0.080	0.054	0.048	951	610	0.0417	0.011	-0.87	1.204	0.475
	250PDT125-30	0.0312	33	0.156	0.53	0.169	1.042	0.025	0.397	0.084	0.140	0.087	1713	832	0.0505	0.029	-0.76	1.351	0.681
	350PDT125-30	0.0312	33	0.187	0.64	0.359	1.386	0.027	0.380	0.087	0.304	0.141	2789	781	0.0607	0.062	-0.67	1.586	0.821
	362PDT125-30	0.0312	33	0.191	0.65	0.389	1.428	0.027	0.378	0.087	0.330	0.149	2938	755	0.0619	0.067	-0.66	1.619	0.833
	400PDT125-30	0.0312	33	0.203	0.69	0.489	1.553	0.028	0.371	0.088	0.417	0.172	3407	683	0.0657	0.084	-0.63	1.718	0.864
	600PDT125-30	0.0312	33	0.265	0.90	1.278	2.196	0.031	0.340	0.090	1.074	0.240	4737	454	0.0860	0.212	-0.52	2.282	0.948
1-1/2"	162PDT150-30	0.0312	33	0.144	0.49	0.078	0.737	0.035	0.494	0.080	0.059	0.050	983	610	0.0467	0.018	-1.10	1.414	0.394
	250PDT150-30	0.0312	33	0.171	0.58	0.195	1.066	0.040	0.486	0.085	0.151	0.090	1773	832	0.0556	0.047	-0.98	1.526	0.590
	350PDT150-30	0.0312	33	0.203	0.69	0.409	1.421	0.045	0.470	0.088	0.326	0.146	2887	781	0.0657	0.101	-0.87	1.731	0.748
	362PDT150-30	0.0312	33	0.206	0.70	0.443	1.464	0.045	0.468	0.088	0.354	0.154	3042	755	0.0670	0.109	-0.86	1.760	0.763
	400PDT150-30	0.0312	33	0.218	0.74	0.553	1.592	0.046	0.461	0.088	0.446	0.178	3526	683	0.0708	0.137	-0.83	1.851	0.802
	600PDT150-30	0.0312	33	0.281	0.96	1.422	2.251	0.051	0.427	0.090	1.136	0.244	4818	454	0.0910	0.347	-0.69	2.392	0.918
2"	162PDT200-30	0.0312	33	0.175	0.60	0.101	0.758	0.076	0.660	0.081	0.067	0.052	1028	610	0.0569	0.040	-1.57	1.864	0.291
	250PDT200-30	0.0312	33	0.203	0.69	0.246	1.103	0.088	0.659	0.086	0.170	0.094	1862	832	0.0657	0.103	-1.42	1.917	0.449
	350PDT200-30	0.0312	33	0.234	0.80	0.509	1.475	0.098	0.647	0.088	0.365	0.154	3039	781	0.0759	0.219	-1.29	2.063	0.610
	362PDT200-30	0.0312	33	0.238	0.81	0.549	1.520	0.099	0.645	0.089	0.397	0.160	3159	755	0.0771	0.237	-1.27	2.086	0.627
	400PDT200-30	0.0312	33	0.249	0.85	0.682	1.654	0.102	0.639	0.089	0.502	0.176	3480	683	0.0809	0.297	-1.23	2.160	0.674
	600PDT200-30	0.0312	33	0.312	1.06	1.710	2.342	0.114	0.605	0.091	1.353	0.262	5170	454	0.1012	0.754	-1.05	2.637	0.841
2-1/2"	162PDT250-30	0.0312	33	0.206	0.70	0.123	0.772	0.139	0.821	0.082	0.073	0.054	1059	610	0.0670	0.075	-2.05	2.338	0.233
	250PDT250-30	0.0312	33	0.234	0.80	0.298	1.129	0.160	0.828	0.086	0.186	0.097	1926	832	0.0759	0.190	-1.88	2.347	0.356
	350PDT250-30	0.0312	33	0.265	0.90	0.608	1.515	0.179	0.822	0.089	0.401	0.151	2987	781	0.0860	0.402	-1.73	2.441	0.498
	362PDT250-30	0.0312	33	0.269	0.92	0.656	1.562	0.181	0.820	0.089	0.436	0.157	3097	755	0.0872	0.435	-1.71	2.458	0.515
	400PDT250-30	0.0312	33	0.281	0.96	0.812	1.701	0.187	0.816	0.090	0.551	0.173	3425	683	0.0910	0.543	-1.66	2.514	0.563
	600PDT250-30	0.0312	33	0.343	1.17	1.997	2.413	0.211	0.784	0.092	1.473	0.261	5162	454	0.1113	1.373	-1.44	2.919	0.755
3"	162PDT300-30	0.0312	33	0.238	0.81	0.146	0.783	0.228	0.979	0.082	0.078	0.055	1081	610	0.0771	0.125	-2.53	2.826	0.197
	250PDT300-30	0.0312	33	0.265	0.90	0.350	1.149	0.261	0.993	0.087	0.199	0.100	1973	832	0.0860	0.315	-2.35	2.801	0.294
	350PDT300-30	0.0312	33	0.296	1.01	0.707	1.546	0.292	0.993	0.089	0.432	0.149	2945	781	0.0961	0.661	-2.18	2.853	0.415
	362PDT300-30	0.0312	33	0.300	1.02	0.762	1.594	0.295	0.992	0.089	0.470	0.155	3056	755	0.0974	0.714	-2.16	2.864	0.430
	400PDT300-30	0.0312	33	0.312	1.06	0.941	1.737	0.305	0.989	0.090	0.593	0.171	3387	683	0.1012	0.891	-2.11	2.905	0.474
	600PDT300-30	0.0312	33	0.374	1.27	2.285	2.471	0.346	0.962	0.092	1.580	0.261	5152	454	0.1214	2.241	-1.86	3.237	0.671

Table Notes

- Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - Nonstructural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.
- Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus bend radius. ProTRAK hems are ignored.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.

1. Web-height to thickness ratio exceeds 200.
2. Web-height-to thickness ratio exceeds 260, or flange-width-to-thickness ratio exceeds 60.

RAM ProSTUD® 33MIL DRYWALL STUD

PHYSICAL PROPERTIES

Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy						Torsional Properties					L_u (in)
					I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Va_{net} (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β	
162PDS125-33	0.0346	33	0.152	0.52	0.070	0.679	0.032	0.456	0.114	0.070	0.078	1541	632	123	0.06059	0.019	-1.07	1.344	0.371	30.8
250PDS125-33	0.0346	33	0.182	0.62	0.186	1.010	0.037	0.449	0.125	0.186	0.138	2697	1007	431	0.07267	0.046	-0.94	1.449	0.582	30.1
350PDS125-33	0.0346	33	0.217	0.74	0.404	1.366	0.041	0.435	0.126	0.404	0.192	3793	1024	507	0.08648	0.098	-0.83	1.655	0.750	29.7
362PDS125-33	0.0346	33	0.221	0.75	0.439	1.409	0.041	0.433	0.127	0.439	0.200	3943	1024	541	0.08820	0.106	-0.82	1.685	0.766	29.6
400PDS125-33	0.0346	33	0.234	0.80	0.553	1.538	0.043	0.426	0.128	0.553	0.222	4394	957	602	0.09338	0.132	-0.78	1.777	0.806	29.5
600PDS125-33	0.0346	33	0.303	1.03	1.463	2.196	0.047	0.394	0.130	1.428	0.399	7021	630	630	0.12100	0.332	-0.65	2.323	0.922	28.6

RAM ProTRAK® 33MIL DRYWALL TRACK

PHYSICAL PROPERTIES

Leg	Product Name	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	Gross Section				Effective Sections at Fy					Torsional Properties					
						I_x (in^4)	R_x (in)	I_y (in^4)	R_y (in)	A_e (in^2)	I_x (in^4)	S_x (in^3)	M_a (in-lbs)	Va_g (lb)	Jx1000 (in^4)	C_w (in^6)	X_o (in)	R_o (in)	β	
1"	162PDT100-33	0.0346	33	0.125	0.43	0.062	0.704	0.013	0.322	0.093	0.056	0.053	1051	677	0.0499	0.007	-0.65	1.010	0.588	
	250PDT100-33	0.0346	33	0.155	0.53	0.159	1.012	0.015	0.308	0.100	0.145	0.095	1878	1024	0.0620	0.017	-0.56	1.195	0.783	
	350PDT100-33	0.0346	33	0.190	0.65	0.344	1.345	0.016	0.290	0.104	0.316	0.154	3044	1024	0.0758	0.037	-0.48	1.458	0.891	
	362PDT100-33	0.0346	33	0.194	0.66	0.373	1.385	0.016	0.288	0.104	0.344	0.162	3206	1024	0.0775	0.040	-0.47	1.492	0.899	
	400PDT100-33	0.0346	33	0.207	0.70	0.470	1.506	0.016	0.282	0.105	0.438	0.176	3469	931	0.0827	0.051	-0.45	1.598	0.920	
	600PDT100-33	0.0346	33	0.276	0.94	1.258	2.133	0.018	0.254	0.107	1.152	0.280	5531	619	0.1103	0.127	-0.36	2.179	0.972	
1-1/4"	162PDT125-33	0.0346	33	0.142	0.48	0.075	0.723	0.024	0.409	0.095	0.063	0.056	1104	677	0.0568	0.012	-0.87	1.203	0.477	
	250PDT125-33	0.0346	33	0.173	0.59	0.188	1.043	0.027	0.397	0.102	0.160	0.100	1972	1024	0.0689	0.032	-0.76	1.351	0.682	
	350PDT125-33	0.0346	33	0.207	0.70	0.399	1.387	0.030	0.380	0.105	0.346	0.161	3189	1024	0.0827	0.068	-0.67	1.586	0.822	
	362PDT125-33	0.0346	33	0.212	0.72	0.432	1.429	0.030	0.377	0.105	0.375	0.170	3358	1024	0.0844	0.074	-0.66	1.618	0.834	
	400PDT125-33	0.0346	33	0.225	0.77	0.542	1.554	0.031	0.371	0.106	0.473	0.197	3887	931	0.0896	0.093	-0.63	1.718	0.865	
	600PDT125-33	0.0346	33	0.294	1.00	1.418	2.197	0.034	0.339	0.109	1.237	0.287	5681	619	0.1172	0.234	-0.52	2.282	0.949	
1-1/2"	162PDT150-33	0.0346	33	0.160	0.54	0.087	0.738	0.039	0.494	0.096	0.068	0.058	1143	677	0.0637	0.020	-1.10	1.413	0.395	
	250PDT150-33	0.0346	33	0.190	0.65	0.216	1.067	0.045	0.485	0.102	0.173	0.103	2044	1024	0.0758	0.052	-0.98	1.525	0.591	
	350PDT150-33	0.0346	33	0.225	0.77	0.454	1.422	0.049	0.469	0.106	0.372	0.167	3306	1024	0.0896	0.112	-0.87	1.730	0.749	
	362PDT150-33	0.0346	33	0.229	0.78	0.491	1.465	0.050	0.467	0.106	0.403	0.176	3481	1024	0.0914	0.121	-0.86	1.760	0.763	
	400PDT150-33	0.0346	33	0.242	0.82	0.614	1.593	0.051	0.460	0.107	0.507	0.204	4027	931	0.0965	0.152	-0.82	1.851	0.802	
	600PDT150-33	0.0346	33	0.311	1.06	1.578	2.252	0.057	0.426	0.110	1.311	0.293	5790	619	0.1241	0.384	-0.69	2.392	0.918	
2"	162PDT200-33	0.0346	33	0.194	0.66	0.112	0.759	0.085	0.660	0.097	0.077	0.061	1198	677	0.0775	0.045	-1.57	1.862	0.292	
	250PDT200-33	0.0346	33	0.225	0.77	0.274	1.104	0.097	0.658	0.104	0.196	0.109	2150	1024	0.0896	0.114	-1.42	1.916	0.450	
	350PDT200-33	0.0346	33	0.259	0.88	0.565	1.476	0.108	0.647	0.107	0.417	0.176	3484	1024	0.1034	0.243	-1.29	2.062	0.610	
	362PDT200-33	0.0346	33	0.264	0.90	0.610	1.521	0.110	0.645	0.107	0.452	0.186	3669	1024	0.1052	0.263	-1.27	2.085	0.628	
	400PDT200-33	0.0346	33	0.276	0.94	0.758	1.655	0.113	0.639	0.108	0.567	0.215	4246	931	0.1103	0.329	-1.23	2.159	0.675	
	600PDT200-33	0.0346	33	0.346	1.18	1.897	2.342	0.126	0.604	0.111	1.520	0.322	6355	619	0.1380	0.835	-1.05	2.637	0.842	
2-1/2"	162PDT250-33	0.0346	33	0.229	0.78	0.137	0.774	0.154	0.821	0.098	0.085	0.063	1235	677	0.0914	0.083	-2.05	2.336	0.233	
	250PDT250-33	0.0346	33	0.259	0.88	0.331	1.130	0.177	0.827	0.104	0.214	0.113	2225	1024	0.1034	0.211	-1.88	2.346	0.357	
	350PDT250-33	0.0346	33	0.294	1.00	0.675	1.516	0.198	0.821	0.108	0.455	0.183	3616	1024	0.1172	0.446	-1.73	2.440	0.499	
	362PDT250-33	0.0346	33	0.298	1.01	0.728	1.563	0.200	0.820	0.108	0.493	0.193	3808	1024	0.1190	0.482	-1.71	2.457	0.516	
	400PDT250-33	0.0346	33	0.311	1.06	0.901	1.702	0.207	0.815	0.109	0.622	0.214	4221	931	0.1241	0.602	-1.66	2.514	0.564	
	600PDT250-33	0.0346	33	0.380	1.29	2.216	2.414	0.233	0.783	0.111	1.657	0.320	6327	619	0.1518	1.522	-1.44	2.919	0.756	
3"	162PDT300-33	0.0346	33	0.264	0.90	0.162	0.784	0.252	0.979	0.098	0.091	0.064	1262	677	0.1052	0.139	-2.53	2.824	0.197	
	250PDT300-33	0.0346	33	0.294	1.00	0.388	1.150	0.289	0.993	0.105	0.229	0.115	2282	1024	0.1172	0.349	-2.35	2.800	0.294	
	350PDT300-33	0.0346	33	0.328	1.12	0.786	1.547	0.323	0.992	0.108	0.490	0.183	3615	1024	0.1310	0.733	-2.18	2.852	0.415	
	362PDT300-33	0.0346	33	0.333	1.13	0.846	1.595	0.327	0.992	0.109	0.532	0.190	3751	1024	0.1328	0.793	-2.16	2.863	0.430	
	400PDT300-33	0.0346	33	0.346	1.18	1.045	1.738	0.338	0.989	0.109	0.671	0.210	4158	931	0.1380	0.988	-2.11	2.904	0.474	
	600PDT300-33	0.0346	33	0.415	1.41	2.535	2.472	0.384	0.962	0.112	1.780	0.319	6303	619	0.1656	2.485	-1.86	3.237	0.671	

Table Notes

- Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - Nonstructural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.
- Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus bend radius. ProTRAK hems are ignored.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.

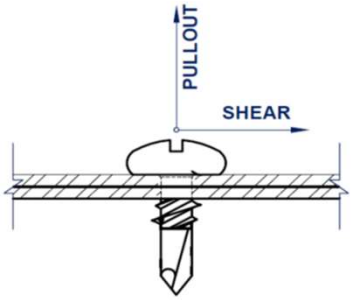
1. Web-height to thickness ratio exceeds 200.
2. Web-height-to thickness ratio exceeds 260, or flange-width-to-thickness ratio exceeds 60.

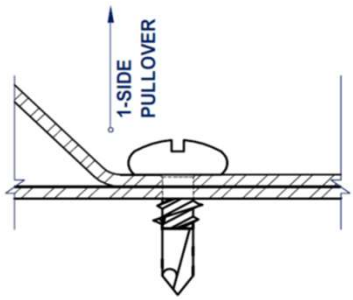
RAM ProSTUD® Screw Design Values

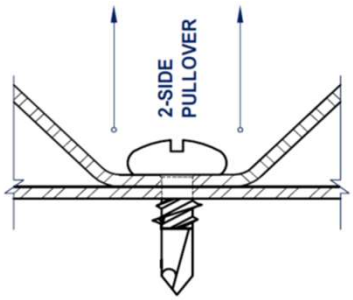
SCREW CAPACITY

Designation	Thickness Mils	Design Thickness (in)	Yield Fy (ksi)	Ultimate Fu (ksi)	#6 Screw (0.138" Dia, 5/16" Head)				#7 Screw (0.151" Dia, 5/16" Head)				#8 Screw (0.164" Dia, 5/16" Head)			
					Shear	1-Side	2-Side	Pullout	Shear	1-Side	2-Side	Pullout	Shear	1-Side	2-Side	Pullout
ProSTUD 25	15	0.0158	50	50	52	62	123	31	54	62	123	34	56	62	123	37
ProSTUD 20	18	0.0190	70	70	95	104	208	52	100	104	208	57	104	104	208	62
ProSTUD 20LTD	19	0.0200	65	65	96	102	203	51	100	102	203	56	104	102	203	60
ProSTUD 30	30	0.0312	33	33	95	80	161	40	99	80	161	44	103	80	161	48
ProSTUD 33	33	0.0346	33	45	151	122	243	61	158	122	243	67	164	122	243	72

Designation	Thickness Mils	Design Thickness (in)	Yield Fy (ksi)	Ultimate Fu (ksi)	#10 Screw (0.190" Dia, 0.34" Head)				#12 Screw (0.216" Dia, 0.34" Head)				1/4" Screw (0.250" Dia, 0.409" Head)			
					Shear	1-Side	2-Side	Pullout	Shear	1-Side	2-Side	Pullout	Shear	1-Side	2-Side	Pullout
ProSTUD 25	15	0.0158	50	50	61	67	134	43	65	67	134	48	70	81	162	56
ProSTUD 20	18	0.0190	70	70	112	113	226	72	119	113	226	81	128	136	272	94
ProSTUD 20LTD	19	0.0200	65	65	112	111	221	70	120	111	221	80	129	133	266	92
ProSTUD 30	30	0.0312	33	33	111	88	175	55	118	88	175	63	127	105	211	73
ProSTUD 33	33	0.0346	33	45	177	132	265	84	188	132	265	95	203	159	318	110







Screw Capacity Table Notes:

- Allowable screw connection capacities are based on Section E4 of the AISI S100-12 Specification.
- When connecting materials of different steel thicknessess or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected.
- Screw shear and tension capacities was developed using published screw manufacturer data and evaluation reports available at the time of publication.
- Screw capacities are based on Allowable Strength Design (ASD) and include a safety factor of 3.0.
- When multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal diameter (d).
- Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal diameter (d) of the screw.
- Tension capacity is based on the lesser of pullout capacity in sheet closest to screw tip, or pullover capacity for sheet closest to screw head (using head diameter).
- Screw capacities are governed by a conservative estimate of screw capacity, not by sheet steel failure.
- For higher screw capacities, especially for screw strength, use specific screws from specific manufacturer. See manufacturer's data for specific allowable values and installation instructions.

Material Certification - Code Approvals and Performance:

Interior Drywall Framing with ProSTUD™

AISI "North American Specification for the Design of Cold-Formed Steel Structural Members, 2012 and AISI S220-15: North American Standard for Cold-Formed Steel Framing - Nonstructural Members, 2015 Edition

ASTM A653	Coating specification
ASTM A1003	Material specification
ASTM C645	Non-structural steel framing members
ASTM C754	Framing & accessory installation
ASTM E119	Fire tests
ASTM E72	Strength tests
ASTM E90	Airborne sound transmission

UL® Underwriters Laboratories Testing Standards

UL263 "Fire Tests of Building

Construction/Materials Over 40UL designs for ProSTUD

See UL File Number UL R27624 for additional information. Fire designs include U419, V450 & V438.

Sound ratings:
Western Electro - Acoustic Laboratory

Additional **code approvals:**

SFIA (Steel Framing Industry Association)

RAM Sales is a **code** compliant certified **member of the Steel Framing Industry Association (SFIA).**

SFIA STEEL FRAMING INDUSTRY ASSOCIATION

AWCI

FLORIDA WALL & CEILING CONTRACTORS ASSOCIATION "Providing Florida with Quality Craftsmanship"

Steel Framing Alliance™ *Steel. The Better Builder.*

GREEN BENEFITS AND RECYCLED CONTENT:

LEED Credit MR 2 (Construction Waste Management) - RAM products are manufactured form cold formed steel. Steel is 100% recyclable, which helps divert debris from the waste stream. The contribution to LEED must be calculated by the contractor based on weight of volume.

LEED Credit MR 4 (Recycled Content) - RAM Steel products have a minimum of 29.8% post-consumer recycled content, and 10.2% pre-consumer. If you wish to report a higher number for your project or seek credit MR 5 regional materials, Please contact Technical Support toll free at **1-844-4-0-STUDS** (1-844-407-8837) or visit www.ramsteelframing.com