RAM STEEL FRAMING

TECHNICAL CATALOG

ProSTUD® & ProTRAK®

Drywall Framing System

Limiting heights, ceiling spans, section properties and connection data for ProSTUD 25, ProSTUD 20, ProSTUD 30 and ProSTUD 33 interior nonstructural framing.

AISI S100-16 (2020) w/S2-20 · AISI S220-20 · ASTM C645

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Technical Support 1-844-4-0-STUDS | ramsteelframing.com

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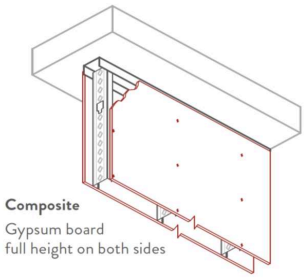
Products in this catalog: ProSTUD 25 (15 mil), ProSTUD 20 (18 mil), ProSTUD 30 (30 mil) and ProSTUD 33 (33 mil) studs in 1-5/8", 2-1/2", 3-1/2", 3-5/8", 4", 5-1/2" and 6" depths, with matching ProTRAK in 1", 1-1/4", 1-1/2", 2", 2-1/2" and 3" flanges. Check availability prior to specification.

PROSTUD® DRYWALL FRAMING

ProSTUD and ProTRAK interior drywall framing combine a high-strength steel with an optimized profile – stiffening grooves in the flange and a double-offset web – to meet the strength and stiffness requirements of current building codes at reduced weight. ProSTUD is manufactured by RAM Steel Framing in compliance with ASTM C645 and AISI S220, and is certified through the SFIA Code Compliance Certification Program.

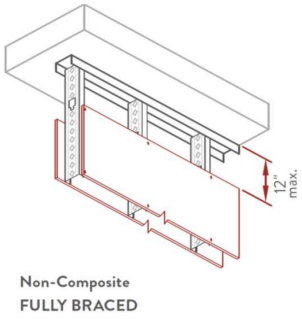
Product	Thickness (mil)	Design Thickness (in.)	Min. Yield F_y (ksi)	Standard Coating
ProSTUD 25	15	0.0158	50	G40 (G60, G90 available)
ProSTUD 20	18	0.0190	70	G40 (G60, G90 available)
ProSTUD 30	30	0.0312	33	G40 (G60, G90 available)
ProSTUD 33	33	0.0346	33	G40 (G60, G90 available)

WALL TYPE SELECTION



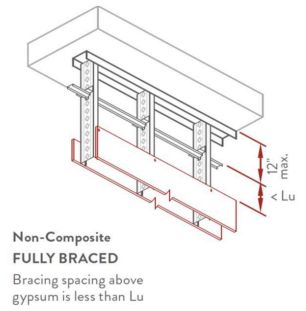
Composite Assemblies

Composite limiting heights apply to walls with gypsum board installed on both flanges of the stud for the full height of the wall. ProSTUD composite data was tested in accordance with AISI S916 and ICC-ES AC86, and includes the additional requirements of the SFIA Code Compliance Certification Program.



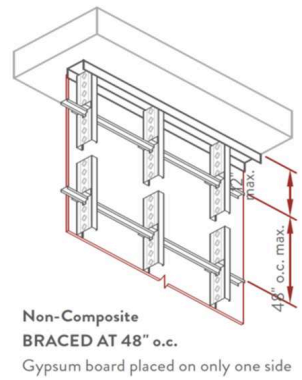
Non-Composite, Fully Braced

Non-composite conditions are common where the gypsum board stops at the ceiling and the stud continues to the deck. Fully braced tables apply when the stud is braced at a spacing not exceeding L_u, by sheathing or discrete bracing.



Non-Composite, Bracing Above Gypsum

Where bracing is provided above the gypsum board at a spacing less than L_u, the fully braced non-composite tables may be used.



Non-Composite, Braced at 48" o.c.

When walls do not have sheathing or discrete bracing that satisfy the above requirements, walls may be constructed with bracing / bridging installed at 48" o.c. vertically.

Other assemblies: conditions not listed may vary greatly with the building requirements. The non-composite tables may be used conservatively; consult the design professional of record before performing any work, or contact RAM Technical Support at 1-844-4-0-STUDS.

COMPOSITE LIMITING HEIGHTS 1-5/8" – 3-5/8"

5/8" Type X Gypsum Board – 1 Layer Full Height, Each Side

Width	Stud Member	Spacing (in.)	5 psf			7.5 psf			10 psf			15 psf[1]		
			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 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 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"	—
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 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"	—
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 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"	—

TABLE NOTES

- Allowable composite limiting heights were tested in accordance with AISI S916 and ICC-ES AC86.
- 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.
- Composite limiting heights 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 a maximum of 16" o.c. for studs spaced at 12" or 16" o.c., and a maximum of 12" o.c. for studs spaced at 24" o.c. (including top and bottom tracks).
- 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.
- Composite limiting heights for ProSTUD 20 (18 mil) are not published for 3-1/2" and 5-1/2" members; contact RAM Technical Support.

[1] 15 psf values are provided for information only. AISI S220 defines nonstructural members as those subject to a transverse load of not more than 10 psf.

[f] Flexural stress controls the allowable wall height. [s] Shear / end reaction controls the allowable wall height. — Height not tabulated; exceeds the allowable stress or deflection limit.

COMPOSITE LIMITING HEIGHTS 4" – 6"

5/8" Type X Gypsum Board – 1 Layer Full Height, Each Side

Width	Stud Member	Spacing (in.)	5 psf			7.5 psf			10 psf			15 psf[1]		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
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 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"
5-1/2"	ProSTUD 25 550PDS125-15	12	26' 11"[f]	22' 9"	20' 3"	22' 0"[f]	19' 11"	17' 9"	19' 0"[f]	18' 1"	16' 1"	12' 6"[f]	12' 6"[f]	12' 6"[f]
		16	23' 4"[f]	20' 8"	18' 5"	19' 0"[f]	18' 1"	16' 1"	16' 6"[f]	16' 5"	14' 7"	—	—	—
		24	19' 0"[f]	18' 1"	16' 1"	15' 7"[f]	15' 7"[f]	14' 1"	13' 6"[f]	13' 6"[f]	12' 9"	—	—	—
	ProSTUD 30 550PDS125-30	12	34' 9"	27' 7"	24' 1"	30' 5"	24' 1"	21' 1"	27' 7"	21' 11"	19' 2"	20' 9"[f]	19' 2"	16' 7"
		16	31' 7"	25' 1"	21' 11"	27' 7"	21' 11"	19' 2"	25' 1"	19' 11"	17' 4"	17' 11"[f]	17' 4"	—
		24	27' 7"	21' 11"	19' 2"	24' 1"	19' 2"	16' 7"	21' 11"	17' 4"	—	—	—	—
	ProSTUD 33 550PDS125-33	12	34' 11"	28' 11"	25' 0"	30' 6"	25' 3"	21' 10"	27' 8"	22' 11"	19' 10"	21' 6"[f]	20' 0"	17' 2"
		16	31' 8"	26' 3"	22' 9"	27' 8"	22' 11"	19' 10"	25' 2"	20' 10"	18' 0"	18' 8"[f]	18' 2"	—
		24	27' 8"	22' 11"	19' 10"	24' 2"	20' 0"	17' 2"	22' 0"	18' 2"	—	—	—	—
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 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"	—	—	—	—

TABLE NOTES

- Allowable composite limiting heights were tested in accordance with AISI S916 and ICC-ES AC86.
- 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.
- Composite limiting heights 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 a maximum of 16" o.c. for studs spaced at 12" or 16" o.c., and a maximum of 12" o.c. for studs spaced at 24" o.c. (including top and bottom tracks).
- 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.
- Composite limiting heights for ProSTUD 20 (18 mil) are not published for 3-1/2" and 5-1/2" members; contact RAM Technical Support.

[1] 15 psf values are provided for information only. AISI S220 defines nonstructural members as those subject to a transverse load of not more than 10 psf.

[f] Flexural stress controls the allowable wall height. [s] Shear / end reaction controls the allowable wall height. — Height not tabulated; exceeds the allowable stress or deflection limit.

NON-COMPOSITE FULLY BRACED 1-5/8" – 3-5/8"

Non-Composite Limiting Heights – Fully Braced

Width	Stud Member	Spacing (in.)	5 psf			7.5 psf			10 psf			Max. Brace Spacing L_u (in.)
			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 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 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"	
3-1/2"	ProSTUD 25* 350PDS125-15	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 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"	
3-5/8"	ProSTUD 25* 362PDS125-15	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 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"	

TABLE NOTES

- Heights are based on AISI S100-16 (2020) w/S2-20, North American Specification for the Design of Cold-Formed Steel Structural Members, and AISI S220-20, North American Standard for Cold-Formed Steel Framing – Nonstructural Members, using steel properties alone.
- Non-composite limiting heights are applicable when the unbraced length is less than or equal to L_u.
- Heights are limited by moment, deflection, shear and web crippling (assuming 1" end reaction bearing).
- 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.

* Web stiffeners are required at bearing points.

NON-COMPOSITE FULLY BRACED 4" – 6"

Non-Composite Limiting Heights – Fully Braced

Width	Stud Member	Spacing (in.)	5 psf			7.5 psf			10 psf			Max. Brace Spacing L_u (in.)
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	
4"	**ProSTUD 25*** 400PDS125-15	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"	24.2
		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 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"	
5-1/2"	**ProSTUD 25*** 550PDS125-15	12	18' 7"	18' 0"	15' 9"	15' 2"	15' 2"	13' 9"	13' 0"	13' 0"	12' 6"	23.8
		16	16' 1"	16' 1"	14' 3"	13' 0"	13' 0"	12' 6"	9' 9"	9' 9"	9' 9"	
		24	13' 0"	13' 0"	12' 6"	8' 8"	8' 8"	8' 8"	6' 6"	6' 6"	6' 6"	
	ProSTUD 20* 550PDS125-18	12	24' 4"	19' 4"	16' 11"	20' 10"	16' 11"	14' 9"	18' 0"	15' 4"	13' 5"	23.8
		16	22' 1"	17' 7"	15' 4"	18' 0"	15' 4"	13' 5"	15' 7"	13' 11"	12' 2"	
		24	18' 0"	15' 4"	13' 5"	14' 8"	13' 5"	11' 9"	11' 4"	11' 4"	10' 8"	
	ProSTUD 30 550PDS125-30	12	27' 2"	23' 11"	20' 11"	22' 2"	20' 11"	18' 3"	19' 3"	19' 0"	16' 7"	28.9
		16	23' 7"	21' 9"	19' 0"	19' 3"	19' 0"	16' 7"	16' 8"	16' 8"	15' 1"	
		24	19' 3"	19' 0"	16' 7"	15' 8"	15' 8"	14' 6"	13' 7"	13' 7"	13' 2"	
	ProSTUD 33 550PDS125-33	12	29' 4"	24' 10"	21' 8"	23' 11"	21' 8"	18' 11"	20' 9"	19' 8"	17' 3"	28.9
		16	25' 5"	22' 7"	19' 8"	20' 9"	19' 8"	17' 3"	17' 11"	17' 11"	15' 8"	
		24	20' 9"	19' 8"	17' 3"	16' 11"	16' 11"	15' 0"	14' 8"	14' 8"	13' 8"	
6"	**ProSTUD 25*** 600PDS125-15	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	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 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

- Heights are based on AISI S100-16 (2020) w/S2-20, North American Specification for the Design of Cold-Formed Steel Structural Members, and AISI S220-20, North American Standard for Cold-Formed Steel Framing – Nonstructural Members, using steel properties alone.
- Non-composite limiting heights are applicable when the unbraced length is less than or equal to L_u.
- Heights are limited by moment, deflection, shear and web crippling (assuming 1" end reaction bearing).
- 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.

* Web stiffeners are required at bearing points.

NON-COMPOSITE BRACED AT 48" O.C. 1-5/8" – 3-5/8"

Non-Composite Limiting Heights – Braced at 48" o.c.

Width	Stud Member	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
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 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 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"
3-1/2"	ProSTUD 25* 350PDS125-15	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 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"
3-5/8"	ProSTUD 25* 362PDS125-15	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 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"

TABLE NOTES

- Heights are based on AISI S100-16 (2020) w/S2-20, North American Specification for the Design of Cold-Formed Steel Structural Members, and AISI S220-20, North American Standard for Cold-Formed Steel Framing – Nonstructural Members, using steel properties alone.
- Allowable moment capacities are based on discrete stud bracing at 48" o.c. maximum.
- Heights are limited by moment, deflection, shear and web crippling (assuming 1" end reaction bearing).
- 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.

* Web stiffeners are required at bearing points.

NON-COMPOSITE BRACED AT 48" O.C. 4" – 6"

Non-Composite Limiting Heights – Braced at 48" o.c.

Width	Stud Member	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
4"	**ProSTUD 25*** 400PDS125-15	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 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"
5-1/2"	**ProSTUD 25*** 550PDS125-15	12	15' 4"	15' 4"	15' 4"	12' 6"	12' 6"	12' 6"	10' 10"	10' 10"	10' 10"
		16	13' 3"	13' 3"	13' 3"	10' 10"	10' 10"	10' 10"	9' 5"	9' 5"	9' 5"
		24	10' 10"	10' 10"	10' 10"	8' 8"	8' 8"	8' 8"	6' 6"	6' 6"	6' 6"
	ProSTUD 20* 550PDS125-18	12	19' 10"	19' 4"	16' 11"	16' 2"	16' 2"	14' 9"	14' 0"	14' 0"	13' 5"
		16	17' 2"	17' 2"	15' 4"	14' 0"	14' 0"	13' 5"	12' 2"	12' 2"	12' 2"
		24	14' 0"	14' 0"	13' 5"	11' 5"	11' 5"	11' 5"	9' 11"	9' 11"	9' 11"
	ProSTUD 30 550PDS125-30	12	25' 8"	23' 11"	20' 11"	20' 11"	20' 11"	18' 3"	18' 2"	18' 2"	16' 7"
		16	22' 3"	21' 9"	19' 0"	18' 2"	18' 2"	16' 7"	15' 8"	15' 8"	15' 1"
		24	18' 2"	18' 2"	16' 7"	14' 10"	14' 10"	14' 6"	12' 10"	12' 10"	12' 10"
	ProSTUD 33 550PDS125-33	12	27' 2"	24' 10"	21' 8"	22' 2"	21' 8"	18' 11"	19' 3"	19' 3"	17' 3"
		16	23' 6"	22' 7"	19' 8"	19' 3"	19' 3"	17' 3"	16' 8"	16' 8"	15' 8"
		24	19' 3"	19' 3"	17' 3"	15' 8"	15' 8"	15' 0"	13' 7"	13' 7"	13' 7"
6"	**ProSTUD 25*** 600PDS125-15	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	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 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

- Heights are based on AISI S100-16 (2020) w/S2-20, North American Specification for the Design of Cold-Formed Steel Structural Members, and AISI S220-20, North American Standard for Cold-Formed Steel Framing – Nonstructural Members, using steel properties alone.
- Allowable moment capacities are based on discrete stud bracing at 48" o.c. maximum.
- Heights are limited by moment, deflection, shear and web crippling (assuming 1" end reaction bearing).
- 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.

* Web stiffeners are required at bearing points.

PROTRAK® LATERAL CAPACITY

ProTRAK® Deflection Track – Allowable Lateral Load & Limiting Wall Height

ProTRAK	Design Thickness (in.)	Yield Strength (ksi)	2" Leg Track, 1/2" Gap		2-1/2" Leg Track, 3/4" Gap		3" Leg Track, 1" Gap	
			Allowable Load (lb)	Limiting Wall Height	Allowable Load (lb)	Limiting Wall Height	Allowable Load (lb)	Limiting Wall Height
ProTRAK 25 15 mil	0.0158	50	36	10' 8"	24	7' 2"	18	5' 4"
ProTRAK 20 18 mil	0.0190	50	52	15' 6"	34	10' 4"	26	7' 9"
ProTRAK 30 30 mil	0.0312	33	92	27' 6"	61	18' 4"	46	13' 9"
ProTRAK 33 33 mil	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 5 psf.
- Stud members must be analyzed independently of the track system.
- Calculated in accordance with AISI S100-16 (2020) w/S2-20 and AISI S220-20.

CEILING SPANS L/240

Allowable Ceiling Spans – L/240 Deflection Limit (joist spacing o.c.)

Width	Stud Member	4 psf						6 psf					
		Lateral Support of Compression Flange						Lateral Support of Compression Flange					
		Unsupported			Midspan			Unsupported			Midspan		
		12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
1-5/8"	**ProSTUD 25** 162PDS125-15	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 162PDS125-18	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 30 162PDS125-30	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 162PDS125-33	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** 250PDS125-15	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 250PDS125-18	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 30 250PDS125-30	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 250PDS125-33	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** 350PDS125-15	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 350PDS125-18	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 30 350PDS125-30	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 350PDS125-33	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** 362PDS125-15	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 362PDS125-18	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 30 362PDS125-30	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 362PDS125-33	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** 400PDS125-15	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 400PDS125-18	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 30 400PDS125-30	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 400PDS125-33	12' 0"	11' 1"	9' 11"	17' 2"	15' 11"	14' 4"	10' 9"	9' 11"	8' 11"	15' 5"	14' 4"	12' 10"
5-1/2"	**ProSTUD 25** 550PDS125-15	10' 5"	9' 8"	8' 8"	14' 7"	13' 5"	11' 10"	9' 4"	8' 8"	7' 9"	12' 11"	11' 10"	10' 6"[e]
	ProSTUD 20 550PDS125-18	11' 6"[e]	10' 7"[e]	9' 6"[e]	16' 4"[e]	15' 1"[e]	13' 5"[e]	10' 3"[e]	9' 6"[e]	8' 7"[e]	14' 7"[e]	13' 5"[e]	11' 11"[e]
	ProSTUD 30 550PDS125-30	12' 10"	11' 10"	10' 8"	18' 5"	17' 1"	15' 4"	11' 6"	10' 8"	9' 7"	16' 7"	15' 4"	13' 9"
	ProSTUD 33 550PDS125-33	13' 3"	12' 3"	11' 0"	19' 0"	17' 7"	15' 10"	11' 10"	11' 0"	9' 10"	17' 1"	15' 10"	14' 3"
6"	**ProSTUD 25** 600PDS125-15	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 600PDS125-18	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 30 600PDS125-30	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 600PDS125-33	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

- Loads indicated (4 psf and 6 psf) are dead load only. No live load or internal pressure shall be applied to the spans shown.
- For unbraced sections, allowable moment is based on AISI S100-16 (2020) w/S2-20 Sections F2 and F3 with weak-axis and torsional unbraced length taken as the listed span (completely unbraced). For mid-span braced sections, the unbraced length is taken as one-half of the listed span.
- 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 supports, members must be checked for reduced shear and web crippling in accordance with AISI S100.
- Values are for simple span conditions.

[e] Web stiffeners required at supports.

CEILING SPANS L/360

Allowable Ceiling Spans – L/360 Deflection Limit (joist spacing o.c.)

Width	Stud Member	4 psf						6 psf					
		Lateral Support of Compression Flange						Lateral Support of Compression Flange					
		Unsupported			Midspan			Unsupported			Midspan		
		12"	16"	24"	12"	16"	24"	12"	16"	24"	12"	16"	24"
1-5/8"	**ProSTUD 25** 162PDS125-15	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 162PDS125-18	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 30 162PDS125-30	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 162PDS125-33	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** 250PDS125-15	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 250PDS125-18	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 30 250PDS125-30	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 250PDS125-33	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** 350PDS125-15	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 350PDS125-18	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 30 350PDS125-30	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 350PDS125-33	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** 362PDS125-15	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 362PDS125-18	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 30 362PDS125-30	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 362PDS125-33	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** 400PDS125-15	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 400PDS125-18	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 30 400PDS125-30	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 400PDS125-33	12' 0"	11' 1"	9' 11"	17' 2"	15' 11"	14' 3"	10' 9"	9' 11"	8' 11"	15' 5"	14' 3"	12' 5"
5-1/2"	**ProSTUD 25** 550PDS125-15	10' 5"	9' 8"	8' 8"	14' 7"	13' 5"	11' 10"	9' 4"	8' 8"	7' 9"	12' 11"	11' 10"	10' 6"[e]
	ProSTUD 20 550PDS125-18	11' 6"[e]	10' 7"[e]	9' 6"[e]	16' 4"[e]	15' 1"[e]	13' 5"[e]	10' 3"[e]	9' 6"[e]	8' 7"[e]	14' 7"[e]	13' 5"[e]	11' 11"[e]
	ProSTUD 30 550PDS125-30	12' 10"	11' 10"	10' 8"	18' 5"	17' 1"	15' 4"	11' 6"	10' 8"	9' 7"	16' 7"	15' 4"	13' 9"
	ProSTUD 33 550PDS125-33	13' 3"	12' 3"	11' 0"	19' 0"	17' 7"	15' 10"	11' 10"	11' 0"	9' 10"	17' 1"	15' 10"	14' 3"
6"	**ProSTUD 25** 600PDS125-15	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 600PDS125-18	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 30 600PDS125-30	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 600PDS125-33	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

- Loads indicated (4 psf and 6 psf) are dead load only. No live load or internal pressure shall be applied to the spans shown.
- For unbraced sections, allowable moment is based on AISI S100-16 (2020) w/S2-20 Sections F2 and F3 with weak-axis and torsional unbraced length taken as the listed span (completely unbraced). For mid-span braced sections, the unbraced length is taken as one-half of the listed span.
- 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 supports, members must be checked for reduced shear and web crippling in accordance with AISI S100.
- Values are for simple span conditions.

[e] Web stiffeners required at supports.

PROSTUD® SECTION PROPERTIES

Member	Design t	F_y	Return Lip	Gross Section Properties								Effective Section Properties at F_y								Torsional Properties					L_u
				Area	Weight	I_x	S_x	R_x	I_y	S_y	R_y	A_e	I_{xe}	S_{xe}	M_a Local	M_a Dist.	V_{ag}	V_{anet}	P_a	J x1000	C_w	X_o	R_o	β	
	(in.)	(ksi)	(in.)	($in.^2$)	(lb/ft)	($in.^4$)	($in.^3$)	(in.)	($in.^4$)	($in.^3$)	(in.)	($in.^2$)	($in.^4$)	($in.^3$)	(in-lb)	(in-lb)	(lb)	(lb)	(lb)	($in.^4$)	($in.^6$)	(in.)	(in.)		(in.)
ProSTUD 25 15 mil · 0.0158" · 50 ksi																									
162PDS125-15[2]	0.0158	50	0.250	0.0708	0.241	0.0335	0.0412	0.688	0.0153	0.0197	0.466	0.0329	0.0296	0.0240	719	769	232	104	980	0.0059	0.0094	-1.088	1.369	0.368	24.8
250PDS125-15[2]	0.0158	50	0.250	0.0846	0.288	0.0880	0.0704	1.020	0.0178	0.0208	0.459	0.0334	0.0801	0.0440	1,318	1,198	147	141	998	0.0070	0.0228	-0.959	1.473	0.576	24.5
350PDS125-15[2]	0.0158	50	0.250	0.1004	0.342	0.1903	0.1087	1.377	0.0198	0.0216	0.444	0.0335	0.1766	0.0544	1,629	1,691	104	104	1,000	0.0084	0.0475	-0.849	1.677	0.744	24.3
362PDS125-15[2]	0.0158	50	0.250	0.1024	0.348	0.2064	0.1139	1.420	0.0200	0.0217	0.442	0.0335	0.1898	0.0564	1,689	1,752	100	100	1,001	0.0085	0.0514	-0.837	1.706	0.760	24.3
400PDS125-15[2]	0.0158	50	0.250	0.1083	0.368	0.2597	0.1299	1.549	0.0206	0.0219	0.436	0.0336	0.2328	0.0625	1,870	1,932	90	90	1,003	0.0090	0.0641	-0.803	1.798	0.800	24.2
550PDS125-15[2]	0.0158	50	0.250	0.1320	0.449	0.5534	0.2012	2.047	0.0223	0.0225	0.411	0.0337	0.4439	0.0965	2,890	2,590	65	65	1,007	0.0110	0.1319	-0.695	2.201	0.900	23.8
600PDS125-15[2]	0.0158	50	0.250	0.1399	0.476	0.6829	0.2276	2.209	0.0228	0.0226	0.404	0.0337	0.5370	0.1055	3,159	2,781	60	60	1,007	0.0116	0.1608	-0.666	2.343	0.919	23.6
ProSTUD 20 18 mil · 0.0190" · 70 ksi																									
162PDS125-18	0.0190	70	0.275	0.0858	0.292	0.0403	0.0495	0.685	0.0188	0.0244	0.468	0.0390	0.0352	0.0285	1,194	1,263	405	149	1,628	0.0103	0.0120	-1.105	1.382	0.361	24.8
250PDS125-18	0.0190	70	0.315	0.1039	0.354	0.1075	0.0860	1.017	0.0229	0.0274	0.470	0.0431	0.0990	0.0563	2,361	2,093	256	204	1,796	0.0125	0.0312	-1.004	1.504	0.555	24.5
350PDS125-18	0.0190	70	0.325	0.1233	0.419	0.2337	0.1336	1.377	0.0259	0.0289	0.458	0.0442	0.2174	0.0714	2,992	3,009	181	166	1,837	0.0148	0.0648	-0.896	1.705	0.724	24.3
362PDS125-18	0.0190	70	0.325	0.1257	0.428	0.2536	0.1399	1.421	0.0261	0.0290	0.456	0.0442	0.2340	0.0740	3,102	3,118	174	170	1,839	0.0151	0.0699	-0.884	1.734	0.740	24.3
400PDS125-18[1]	0.0190	70	0.340	0.1334	0.454	0.3208	0.1604	1.551	0.0274	0.0299	0.453	0.0457	0.2856	0.0843	3,532	3,511	157	157	1,902	0.0160	0.0889	-0.859	1.830	0.780	24.2
550PDS125-18[2]	0.0190	70	0.360	0.1626	0.553	0.6878	0.2501	2.057	0.0306	0.0315	0.434	0.0457	0.5519	0.1290	5,405	4,866	113	113	1,947	0.0196	0.1853	-0.756	2.234	0.886	23.8
600PDS125-18[2]	0.0190	70	0.386	0.1731	0.589	0.8554	0.2851	2.223	0.0322	0.0329	0.431	0.0456	0.6694	0.1405	5,891	5,409	104	104	1,941	0.0208	0.2334	-0.739	2.382	0.904	23.6
ProSTUD 30 30 mil · 0.0312" · 33 ksi																									
162PDS125-30	0.0312	33	0.250	0.1374	0.468	0.0637	0.0784	0.681	0.0288	0.0369	0.458	0.0981	0.0636	0.0674	1,332	1,457	572	124	1,936	0.0446	0.0173	-1.070	1.348	0.371	30.8
250PDS125-30	0.0312	33	0.250	0.1647	0.560	0.1688	0.1350	1.012	0.0335	0.0392	0.451	0.1058	0.1681	0.1206	2,383	2,356	832	397	2,110	0.0535	0.0424	-0.941	1.454	0.581	30.1
350PDS125-30	0.0312	33	0.250	0.1959	0.667	0.3666	0.2095	1.368	0.0373	0.0407	0.436	0.1065	0.3648	0.1635	3,231	3,431	805	444	2,127	0.0636	0.0890	-0.831	1.659	0.749	29.7
362PDS125-30	0.0312	33	0.250	0.1998	0.680	0.3980	0.2196	1.411	0.0377	0.0409	0.434	0.1069	0.3960	0.1699	3,358	3,566	776	457	2,133	0.0648	0.0963	-0.820	1.689	0.764	29.7
400PDS125-30	0.0312	33	0.250	0.2115	0.720	0.5014	0.2507	1.540	0.0388	0.0412	0.428	0.1076	0.4987	0.1891	3,737	3,973	701	490	2,149	0.0686	0.1202	-0.787	1.781	0.805	29.5
550PDS125-30	0.0312	33	0.250	0.2583	0.879	1.0721	0.3898	2.037	0.0421	0.0424	0.404	0.1091	1.0485	0.3069	6,065	5,544	505	505	2,182	0.0838	0.2482	-0.680	2.185	0.903	28.9
600PDS125-30	0.0312	33	0.250	0.2739	0.932	1.3243	0.4414	2.199	0.0429	0.0427	0.396	0.1094	1.2808	0.3376	6,671	6,031	461	461	2,188	0.0889	0.3029	-0.651	2.327	0.922	28.7
ProSTUD 33 33 mil · 0.0346" · 33 ksi																									
162PDS125-33	0.0346	33	0.250	0.1518	0.517	0.0701	0.0863	0.679	0.0316	0.0405	0.456	0.1138	0.0701	0.0780	1,541	1,657	632	123	2,244	0.0606	0.0189	-1.065	1.344	0.371	30.8
250PDS125-33	0.0346	33	0.250	0.1821	0.620	0.1859	0.1487	1.010	0.0368	0.0430	0.449	0.1254	0.1859	0.1384	2,735	2,697	1,007	431	2,499	0.0727	0.0464	-0.937	1.449	0.582	30.1
350PDS125-33	0.0346	33	0.250	0.2167	0.737	0.4044	0.2311	1.366	0.0409	0.0447	0.435	0.1264	0.4043	0.1919	3,793	3,948	1,024	507	2,522	0.0865	0.0975	-0.828	1.655	0.750	29.7
362PDS125-33	0.0346	33	0.250	0.2210	0.752	0.4390	0.2422	1.409	0.0413	0.0448	0.433	0.1269	0.4389	0.1995	3,943	4,107	1,024	541	2,531	0.0882	0.1055	-0.816	1.685	0.766	29.6
400PDS125-33	0.0346	33	0.250	0.2340	0.796	0.5532	0.2766	1.538	0.0425	0.0453	0.426	0.1279	0.5531	0.2223	4,394	4,584	957	602	2,553	0.0934	0.1318	-0.783	1.777	0.806	29.5
550PDS125-33	0.0346	33	0.250	0.2859	0.973	1.1839	0.4305	2.035	0.0462	0.0465	0.402	0.1300	1.1671	0.3618	7,149	6,439	689	689	2,598	0.1141	0.2723	-0.676	2.182	0.904	28.9
600PDS125-33	0.0346	33	0.250	0.3032	1.032	1.4627	0.4876	2.196	0.0471	0.0468	0.394	0.1304	1.4276	0.3985	7,875	7,021	630	630	2,606	0.1210	0.3324	-0.647	2.323	0.922	28.6

TABLE NOTES

- Calculated properties are based on AISI S100-16 (2020) w/S2-20, North American Specification for the Design of Cold-Formed Steel Structural Members, and AISI S220-20, 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 Section A3.3.2 of AISI S100-16 (2020) w/S2-20.
- Tabulated gross properties, including torsional properties, are based on the 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.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on $k_\phi = 0$.

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

PROTRAK® SECTION PROPERTIES 1" & 1-1/4" FLANGE

Member	Design t	F_y	Gross Section Properties						Effective Section Properties at F_y					Torsional Properties				
			Area	Weight	I_x	R_x	I_y	R_y	A_e	I_{xe}	S_{xe}	M_a	V_{ag}	J x1000	C_w	X_o	R_o	β
	(in.)	(ksi)	($in.^2$)	(lb/ft)	($in.^4$)	(in.)	($in.^4$)	(in.)	($in.^2$)	($in.^4$)	($in.^3$)	(in-lb)	(lb)	($in.^4$)	($in.^6$)	(in.)	(in.)	
ProTRAK® – 1" Flange ProTRAK 25 (15 mil) · ProTRAK 20 (18 mil) · ProTRAK 30 (30 mil) · ProTRAK 33 (33 mil)																		
162PDT100-15	0.0158	50	0.0573	0.195	0.0279	0.698	0.0061	0.325	0.0199	0.0194	0.0157	470	222	0.0048	0.0030	-0.659	1.014	0.578
250PDT100-15	0.0158	50	0.0711	0.242	0.0721	1.007	0.0069	0.311	0.0203	0.0543	0.0242	725	143	0.0059	0.0080	-0.566	1.197	0.776
350PDT100-15[1]	0.0158	50	0.0869	0.296	0.1563	1.341	0.0075	0.294	0.0205	0.1116	0.0340	1,017	101	0.0072	0.0172	-0.490	1.458	0.887
362PDT100-15[1]	0.0158	50	0.0889	0.302	0.1697	1.382	0.0076	0.292	0.0205	0.1198	0.0352	1,054	98	0.0074	0.0187	-0.482	1.492	0.896
400PDT100-15[1]	0.0158	50	0.0948	0.322	0.2141	1.503	0.0077	0.286	0.0206	0.1383	0.0383	1,147	89	0.0079	0.0234	-0.459	1.597	0.917
550PDT100-15[2]	0.0158	50	0.1185	0.403	0.4628	1.976	0.0082	0.264	0.0207	0.2767	0.0533	1,595	64	0.0099	0.0486	-0.388	2.031	0.964
600PDT100-15[2]	0.0158	50	0.1264	0.430	0.5741	2.131	0.0084	0.257	0.0207	0.3342	0.0582	1,744	59	0.0105	0.0592	-0.369	2.178	0.971
162PDT100-18	0.0190	50	0.0688	0.234	0.0337	0.699	0.0073	0.325	0.0278	0.0243	0.0216	647	380	0.0083	0.0036	-0.657	1.013	0.580
250PDT100-18	0.0190	50	0.0855	0.291	0.0868	1.008	0.0082	0.311	0.0285	0.0671	0.0346	1,035	248	0.0103	0.0096	-0.564	1.196	0.777
350PDT100-18	0.0190	50	0.1045	0.355	0.1880	1.342	0.0090	0.293	0.0289	0.1534	0.0481	1,440	176	0.0126	0.0207	-0.488	1.458	0.888
362PDT100-18	0.0190	50	0.1068	0.363	0.2042	1.382	0.0091	0.291	0.0289	0.1674	0.0498	1,491	170	0.0129	0.0224	-0.480	1.492	0.896
400PDT100-18	0.0190	50	0.1140	0.388	0.2576	1.504	0.0093	0.285	0.0290	0.1823	0.0535	1,601	154	0.0137	0.0281	-0.458	1.597	0.918
550PDT100-18[2]	0.0190	50	0.1425	0.485	0.5567	1.977	0.0099	0.263	0.0292	0.3683	0.0746	2,233	112	0.0171	0.0582	-0.387	2.031	0.964
600PDT100-18[2]	0.0190	50	0.1520	0.517	0.6905	2.132	0.0100	0.257	0.0293	0.4461	0.0816	2,443	102	0.0183	0.0710	-0.368	2.178	0.971
162PDT100-30	0.0312	33	0.1130	0.384	0.0560	0.703	0.0120	0.322	0.0780	0.0490	0.0460	908	610	0.0366	0.0060	-0.650	1.011	0.586
250PDT100-30	0.0312	33	0.1400	0.476	0.1430	1.011	0.0130	0.308	0.0830	0.1270	0.0830	1,635	832	0.0455	0.0160	-0.559	1.196	0.782
350PDT100-30	0.0312	33	0.1710	0.582	0.3100	1.344	0.0150	0.291	0.0860	0.2790	0.1350	2,666	781	0.0556	0.0340	-0.483	1.458	0.890
362PDT100-30	0.0312	33	0.1750	0.595	0.3360	1.385	0.0150	0.289	0.0860	0.3030	0.1420	2,810	755	0.0569	0.0370	-0.475	1.492	0.899
400PDT100-30	0.0312	33	0.1870	0.636	0.4240	1.506	0.0150	0.283	0.0870	0.3880	0.1480	2,927	683	0.0607	0.0460	-0.453	1.598	0.920
550PDT100-30	0.0312	33	0.2340	0.796	0.9150	1.978	0.0160	0.261	0.0880	0.8190	0.2130	4,200	495	0.0759	0.0950	-0.383	2.032	0.965
600PDT100-30	0.0312	33	0.2490	0.847	1.1350	2.133	0.0160	0.255	0.0880	1.0040	0.2340	4,625	454	0.0809	0.1150	-0.364	2.179	0.972
162PDT100-33	0.0346	33	0.1250	0.425	0.0620	0.704	0.0130	0.322	0.0930	0.0560	0.0530	1,051	677	0.0499	0.0070	-0.649	1.010	0.588
250PDT100-33	0.0346	33	0.1550	0.527	0.1590	1.012	0.0150	0.308	0.1000	0.1450	0.0950	1,878	1,024	0.0620	0.0170	-0.557	1.195	0.783
350PDT100-33	0.0346	33	0.1900	0.646	0.3440	1.345	0.0160	0.290	0.1040	0.3160	0.1540	3,044	1,024	0.0758	0.0370	-0.482	1.458	0.891
362PDT100-33	0.0346	33	0.1940	0.660	0.3730	1.385	0.0160	0.288	0.1040	0.3440	0.1620	3,206	1,024	0.0775	0.0400	-0.474	1.492	0.899
400PDT100-33	0.0346	33	0.2070	0.704	0.4700	1.506	0.0160	0.282	0.1050	0.4380	0.1760	3,469	931	0.0827	0.0510	-0.452	1.598	0.920
550PDT100-33	0.0346	33	0.2590	0.881	1.0150	1.979	0.0180	0.260	0.1070	0.9390	0.2540	5,015	675	0.1034	0.1050	-0.382	2.032	0.965
600PDT100-33	0.0346	33	0.2760	0.939	1.2580	2.133	0.0180	0.254	0.1070	1.1520	0.2800	5,531	619	0.1103	0.1270	-0.363	2.179	0.972
ProTRAK® – 1-1/4" Flange ProTRAK 25 (15 mil) · ProTRAK 20 (18 mil) · ProTRAK 30 (30 mil) · ProTRAK 33 (33 mil)																		
162PDT125-15	0.0158	50	0.0652	0.222	0.0335	0.717	0.0111	0.412	0.0200	0.0213	0.0155	464	222	0.0054	0.0055	-0.881	1.208	0.468
250PDT125-15	0.0158	50	0.0790	0.269	0.0850	1.038	0.0127	0.400	0.0204	0.0590	0.0242	724	143	0.0066	0.0146	-0.771	1.353	0.675
350PDT125-15[1]	0.0158	50	0.0948	0.322	0.1812	1.383	0.0139	0.383	0.0206	0.1162	0.0341	1,022	101	0.0079	0.0314	-0.678	1.587	0.818
362PDT125-15[1]	0.0158	50	0.0968	0.329	0.1964	1.425	0.0140	0.381	0.0206	0.1249	0.0354	1,059	98	0.0081	0.0340	-0.668	1.619	0.830
400PDT125-15[1]	0.0158	50	0.1027	0.349	0.2466	1.550	0.0144	0.374	0.0207	0.1528	0.0391	1,171	89	0.0085	0.0427	-0.640	1.718	0.861
550PDT125-15[2]	0.0158	50	0.1264	0.430	0.5238	2.036	0.0155	0.350	0.0208	0.2903	0.0538	1,611	64	0.0105	0.0888	-0.549	2.137	0.934
600PDT125-15[2]	0.0158	50	0.1343	0.457	0.6465	2.194	0.0158	0.343	0.0208	0.3499	0.0588	1,762	59	0.0112	0.1085	-0.524	2.282	0.947
162PDT125-18	0.0190	50	0.0783	0.266	0.0404	0.718	0.0133	0.411	0.0279	0.0265	0.0221	663	380	0.0094	0.0067	-0.879	1.207	0.470
250PDT125-18	0.0190	50	0.0950	0.323	0.1024	1.038	0.0152	0.400	0.0287	0.0733	0.0344	1,029	248	0.0114	0.0175	-0.770	1.353	0.676
350PDT125-18	0.0190	50	0.1140	0.388	0.2181	1.384	0.0167	0.383	0.0290	0.1619	0.0482	1,445	176	0.0137	0.0377	-0.676	1.587	0.818
362PDT125-18	0.0190	50	0.1163	0.396	0.2364	1.426	0.0168	0.380	0.0291	0.1734	0.0500	1,497	170	0.0140	0.0409	-0.666	1.619	0.831
400PDT125-18	0.0190	50	0.1235	0.420	0.2968	1.550	0.0173	0.374	0.0292	0.2109	0.0552	1,653	154	0.0149	0.0513	-0.638	1.718	0.862
550PDT125-18[2]	0.0190	50	0.1520	0.517	0.6301	2.036	0.0185	0.349	0.0294	0.3881	0.0755	2,260	112	0.0183	0.1066	-0.548	2.137	0.934
600PDT125-18[2]	0.0190	50	0.1615	0.549	0.7776	2.195	0.0189	0.342	0.0294	0.4689	0.0826	2,473	102	0.0194	0.1302	-0.523	2.282	0.947
162PDT125-30	0.0312	33	0.1280	0.435	0.0670	0.722	0.0220	0.409	0.0800	0.0540	0.0480	951	610	0.0417	0.0110	-0.872	1.204	0.475
250PDT125-30	0.0312	33	0.1560	0.531	0.1690	1.042	0.0250	0.397	0.0840	0.1400	0.0870	1,713	832	0.0505	0.0290	-0.763	1.351	0.681
350PDT125-30	0.0312	33	0.1870	0.636	0.3590	1.386	0.0270	0.380	0.0870	0.3040	0.1410	2,789	781	0.0607	0.0620	-0.671	1.586	0.821
362PDT125-30	0.0312	33	0.1910	0.650	0.3890	1.428	0.0270	0.378	0.0870	0.3300	0.1490	2,938	755	0.0619	0.0670	-0.661	1.619	0.833
400PDT125-30	0.0312	33	0.2030	0.691	0.4890	1.553	0.0280	0.371	0.0880	0.4170	0.1720	3,407	683	0.0657	0.0840	-0.633	1.718	0.864
550PDT125-30	0.0312	33	0.2490	0.847	1.0360	2.038	0.0300	0.347	0.0890	0.8800	0.2180	4,306	495	0.0809	0.1740	-0.543	2.138	0.935
600PDT125-30	0.0312	33	0.2650	0.902	1.2780	2.196	0.0310	0.340	0.0900	1.0740	0.2400	4,737	454	0.0860	0.2120	-0.519	2.282	0.948
162PDT125-33	0.0346	33	0.1420	0.483	0.0750	0.723	0.0240	0.409	0.0950	0.0630	0.0560	1,104	677	0.0568	0.0120	-0.870	1.203	0.477
250PDT125-33	0.0346	33	0.1730	0.589	0.1880	1.043	0.0270	0.397	0.1020	0.1600	0.1000	1,972	1,024	0.0689	0.0320	-0.762	1.351	0.682
350PDT125-33	0.0346	33	0.2070	0.704	0.3990	1.387	0.0300	0.380	0.1050	0.3460	0.1610	3,189	1,024	0.0827	0.0680	-0.669	1.586	0.822
362PDT125-33	0.0346	33	0.2120	0.721	0.4320	1.429	0.0300	0.377	0.1050	0.3750	0.1700	3,358	1,024	0.0844	0.0740	-0.659	1.618	0.834
400PDT125-33	0.0346	33	0.2250	0.765	0.5420	1.554	0.0310	0.371	0.1060	0.4730	0.1970	3,887	931	0.0896	0.0930	-0.632	1.718	0.865
550PDT125-33	0.0346	33	0.2760	0.939	1.1490	2.039	0.0330	0.347	0.1080	1.0110	0.2610	5,157	675	0.1103	0.1920	-0.542	2.138	0.936
600PDT125-33	0.0346	33	0.2940	1.000	1.4180	2.197	0.0340	0.339	0.1090	1.2370	0.2870	5,681	619	0.1172	0.2340	-0.517	2.282	0.949

TABLE NOTES

- Calculated properties are based on AISI S100-16 (2020) w/S2-20 and AISI S220-20.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per Section A3.3.2 of AISI S100-16 (2020) w/S2-20.
- Tabulated gross properties, including torsional properties, are based on the full unreduced cross section of the tracks.
- 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 the bend radius. Hems on nonstructural track sections are ignored.

[1] Web height-to-thickness ratio exceeds 200. [2] Web height-to-thickness ratio exceeds 260.

PROTRAK® SECTION PROPERTIES 1-1/2" & 2" FLANGE

Member	Design t	F_y	Gross Section Properties						Effective Section Properties at F_y					Torsional Properties				
			Area	Weight	I_x	R_x	I_y	R_y	A_e	I_{xe}	S_{xe}	M_a	V_{ag}	J x1000	C_w	X_o	R_o	β
	(in.)	(ksi)	($in.^2$)	(lb/ft)	($in.^4$)	(in.)	($in.^4$)	(in.)	($in.^2$)	($in.^4$)	($in.^3$)	(in-lb)	(lb)	($in.^4$)	($in.^6$)	(in.)	(in.)	
ProTRAK® – 1-1/2" Flange ProTRAK 25 (15 mil) · ProTRAK 20 (18 mil) · ProTRAK 30 (30 mil) · ProTRAK 33 (33 mil)																		
162PDT150-15	0.0158	50	0.0731	0.249	0.0391	0.731	0.0180	0.497	0.0200	0.0229	0.0154	460	222	0.0061	0.0091	-1.110	1.419	0.388
250PDT150-15	0.0158	50	0.0869	0.296	0.0979	1.062	0.0207	0.489	0.0204	0.0606	0.0241	723	143	0.0072	0.0238	-0.985	1.529	0.585
350PDT150-15[1]	0.0158	50	0.1027	0.349	0.2062	1.417	0.0229	0.473	0.0207	0.1203	0.0342	1,024	101	0.0085	0.0512	-0.877	1.732	0.744
362PDT150-15[1]	0.0158	50	0.1047	0.356	0.2232	1.460	0.0232	0.470	0.0207	0.1293	0.0355	1,061	98	0.0087	0.0555	-0.865	1.761	0.759
400PDT150-15[1]	0.0158	50	0.1106	0.376	0.2791	1.589	0.0238	0.464	0.0207	0.1584	0.0392	1,175	89	0.0092	0.0696	-0.832	1.852	0.798
550PDT150-15[2]	0.0158	50	0.1343	0.457	0.5848	2.087	0.0258	0.438	0.0209	0.3074	0.0544	1,628	64	0.0112	0.1451	-0.722	2.251	0.897
600PDT150-15[2]	0.0158	50	0.1422	0.484	0.7189	2.249	0.0263	0.430	0.0209	0.3635	0.0593	1,774	59	0.0118	0.1773	-0.692	2.392	0.916
162PDT150-18	0.0190	50	0.0878	0.299	0.0471	0.733	0.0216	0.496	0.0280	0.0286	0.0218	653	380	0.0106	0.0110	-1.108	1.418	0.390
250PDT150-18	0.0190	50	0.1045	0.355	0.1179	1.063	0.0249	0.488	0.0288	0.0788	0.0342	1,024	248	0.0126	0.0286	-0.984	1.528	0.586
350PDT150-18	0.0190	50	0.1235	0.420	0.2482	1.418	0.0275	0.472	0.0291	0.1662	0.0483	1,446	176	0.0149	0.0616	-0.875	1.732	0.745
362PDT150-18	0.0190	50	0.1258	0.428	0.2686	1.461	0.0278	0.470	0.0292	0.1784	0.0501	1,499	170	0.0151	0.0667	-0.863	1.761	0.760
400PDT150-18	0.0190	50	0.1330	0.452	0.3359	1.589	0.0285	0.463	0.0293	0.2176	0.0554	1,658	154	0.0160	0.0836	-0.830	1.852	0.799
550PDT150-18[2]	0.0190	50	0.1615	0.549	0.7035	2.087	0.0309	0.437	0.0295	0.4191	0.0767	2,295	112	0.0194	0.1742	-0.721	2.251	0.897
600PDT150-18[2]	0.0190	50	0.1710	0.582	0.8648	2.249	0.0315	0.429	0.0295	0.4887	0.0833	2,494	102	0.0206	0.2128	-0.691	2.392	0.916
162PDT150-30	0.0312	33	0.1440	0.490	0.0780	0.737	0.0350	0.494	0.0800	0.0590	0.0500	983	610	0.0467	0.0180	-1.101	1.414	0.394
250PDT150-30	0.0312	33	0.1710	0.582	0.1950	1.066	0.0400	0.486	0.0850	0.1510	0.0900	1,773	832	0.0556	0.0470	-0.977	1.526	0.590
350PDT150-30	0.0312	33	0.2030	0.691	0.4090	1.421	0.0450	0.470	0.0880	0.3260	0.1460	2,887	781	0.0657	0.1010	-0.869	1.731	0.748
362PDT150-30	0.0312	33	0.2060	0.701	0.4430	1.464	0.0450	0.468	0.0880	0.3540	0.1540	3,042	755	0.0670	0.1090	-0.858	1.760	0.763
400PDT150-30	0.0312	33	0.2180	0.742	0.5530	1.592	0.0460	0.461	0.0880	0.4460	0.1780	3,526	683	0.0708	0.1370	-0.825	1.851	0.802
550PDT150-30	0.0312	33	0.2650	0.902	1.1570	2.090	0.0500	0.435	0.0900	0.9790	0.2410	4,766	495	0.0860	0.2840	-0.716	2.251	0.899
600PDT150-30	0.0312	33	0.2810	0.956	1.4220	2.251	0.0510	0.427	0.0900	1.1360	0.2440	4,818	454	0.0910	0.3470	-0.686	2.392	0.918
162PDT150-33	0.0346	33	0.1600	0.544	0.0870	0.738	0.0390	0.494	0.0960	0.0680	0.0580	1,143	677	0.0637	0.0200	-1.099	1.413	0.395
250PDT150-33	0.0346	33	0.1900	0.646	0.2160	1.067	0.0450	0.485	0.1020	0.1730	0.1030	2,044	1,024	0.0758	0.0520	-0.975	1.525	0.591
350PDT150-33	0.0346	33	0.2250	0.765	0.4540	1.422	0.0490	0.469	0.1060	0.3720	0.1670	3,306	1,024	0.0896	0.1120	-0.868	1.730	0.749
362PDT150-33	0.0346	33	0.2290	0.779	0.4910	1.465	0.0500	0.467	0.1060	0.4030	0.1760	3,481	1,024	0.0914	0.1210	-0.856	1.760	0.763
400PDT150-33	0.0346	33	0.2420	0.823	0.6140	1.593	0.0510	0.460	0.1070	0.5070	0.2040	4,027	931	0.0965	0.1520	-0.823	1.851	0.802
550PDT150-33	0.0346	33	0.2940	1.000	1.2840	2.090	0.0550	0.435	0.1090	1.0980	0.2990	5,906	675	0.1172	0.3150	-0.715	2.251	0.899
600PDT150-33	0.0346	33	0.3110	1.058	1.5780	2.252	0.0570	0.426	0.1100	1.3110	0.2930	5,790	619	0.1241	0.3840	-0.685	2.392	0.918
ProTRAK® – 2" Flange ProTRAK 25 (15 mil) · ProTRAK 20 (18 mil) · ProTRAK 30 (30 mil) · ProTRAK 33 (33 mil)																		
162PDT200-15	0.0158	50	0.0889	0.302	0.0502	0.752	0.0390	0.663	0.0201	0.0255	0.0152	455	222	0.0074	0.0201	-1.579	1.870	0.287
250PDT200-15	0.0158	50	0.1027	0.349	0.1237	1.098	0.0450	0.662	0.0205	0.0637	0.0241	720	143	0.0085	0.0520	-1.431	1.921	0.445
350PDT200-15[1]	0.0158	50	0.1185	0.403	0.2561	1.470	0.0501	0.650	0.0207	0.1272	0.0342	1,025	101	0.0099	0.1111	-1.297	2.066	0.606
362PDT200-15[1]	0.0158	50	0.1205	0.410	0.2767	1.516	0.0506	0.648	0.0207	0.1368	0.0355	1,063	98	0.0100	0.1203	-1.282	2.088	0.623
400PDT200-15[1]	0.0158	50	0.1264	0.430	0.3441	1.650	0.0522	0.642	0.0208	0.1676	0.0393	1,178	89	0.0105	0.1507	-1.240	2.162	0.671
550PDT200-15[2]	0.0158	50	0.1501	0.511	0.7067	2.170	0.0571	0.617	0.0209	0.3248	0.0547	1,637	64	0.0125	0.3136	-1.098	2.509	0.809
600PDT200-15[2]	0.0158	50	0.1580	0.537	0.8638	2.338	0.0584	0.608	0.0210	0.3893	0.0598	1,789	59	0.0131	0.3834	-1.058	2.638	0.839
162PDT200-18	0.0190	50	0.1068	0.363	0.0606	0.753	0.0468	0.662	0.0282	0.0320	0.0214	642	380	0.0129	0.0243	-1.577	1.869	0.288
250PDT200-18	0.0190	50	0.1235	0.420	0.1490	1.099	0.0540	0.661	0.0289	0.0878	0.0339	1,016	248	0.0149	0.0625	-1.429	1.920	0.446
350PDT200-18	0.0190	50	0.1425	0.485	0.3084	1.471	0.0601	0.650	0.0293	0.1746	0.0483	1,446	176	0.0171	0.1336	-1.295	2.065	0.607
362PDT200-18	0.0190	50	0.1448	0.493	0.3331	1.517	0.0608	0.648	0.0293	0.1876	0.0501	1,500	170	0.0174	0.1447	-1.280	2.088	0.624
400PDT200-18	0.0190	50	0.1520	0.517	0.4142	1.651	0.0626	0.642	0.0294	0.2296	0.0555	1,661	154	0.0183	0.1811	-1.238	2.161	0.672
550PDT200-18[2]	0.0190	50	0.1805	0.614	0.8503	2.171	0.0685	0.616	0.0296	0.4435	0.0771	2,309	112	0.0217	0.3768	-1.096	2.509	0.809
600PDT200-18[2]	0.0190	50	0.1900	0.646	1.0392	2.339	0.0700	0.607	0.0297	0.5316	0.0843	2,525	102	0.0229	0.4606	-1.057	2.637	0.840
162PDT200-30	0.0312	33	0.1750	0.595	0.1010	0.758	0.0760	0.660	0.0810	0.0670	0.0520	1,028	610	0.0569	0.0400	-1.570	1.864	0.291
250PDT200-30	0.0312	33	0.2030	0.691	0.2460	1.103	0.0880	0.659	0.0860	0.1700	0.0940	1,862	832	0.0657	0.1030	-1.423	1.917	0.449
350PDT200-30	0.0312	33	0.2340	0.796	0.5090	1.475	0.0980	0.647	0.0880	0.3650	0.1540	3,039	781	0.0759	0.2190	-1.289	2.063	0.610
362PDT200-30	0.0312	33	0.2380	0.810	0.5490	1.520	0.0990	0.645	0.0890	0.3970	0.1600	3,159	755	0.0771	0.2370	-1.274	2.086	0.627
400PDT200-30	0.0312	33	0.2490	0.847	0.6820	1.654	0.1020	0.639	0.0890	0.5020	0.1760	3,480	683	0.0809	0.2970	-1.232	2.160	0.674
550PDT200-30	0.0312	33	0.2960	1.007	1.3990	2.174	0.1120	0.614	0.0910	1.0910	0.2400	4,747	495	0.0961	0.6170	-1.091	2.508	0.811
600PDT200-30	0.0312	33	0.3120	1.061	1.7100	2.342	0.1140	0.605	0.0910	1.3530	0.2620	5,170	454	0.1012	0.7540	-1.051	2.637	0.841
162PDT200-33	0.0346	33	0.1940	0.660	0.1120	0.759	0.0850	0.660	0.0970	0.0770	0.0610	1,198	677	0.0775	0.0450	-1.568	1.862	0.292
250PDT200-33	0.0346	33	0.2250	0.765	0.2740	1.104	0.0970	0.658	0.1040	0.1960	0.1090	2,150	1,024	0.0896	0.1140	-1.421	1.916	0.450
350PDT200-33	0.0346	33	0.2590	0.881	0.5650	1.476	0.1080	0.647	0.1070	0.4170	0.1760	3,484	1,024	0.1034	0.2430	-1.287	2.062	0.610
362PDT200-33	0.0346	33	0.2640	0.898	0.6100	1.521	0.1100	0.645	0.1070	0.4520	0.1860	3,669	1,024	0.1051	0.2630	-1.272	2.085	0.628
400PDT200-33	0.0346	33	0.2760	0.939	0.7580	1.655	0.1130	0.639	0.1080	0.5670	0.2150	4,246	931	0.1103	0.3290	-1.230	2.159	0.675
550PDT200-33	0.0346	33	0.3280	1.116	1.5530	2.174	0.1230	0.613	0.1100	1.2260	0.2960	5,847	675	0.1310	0.6830	-1.089	2.508	0.811
600PDT200-33	0.0346	33	0.3460	1.177	1.8970	2.342	0.1260	0.604	0.1110	1.5200	0.3220	6,355	619	0.1379	0.8350	-1.050	2.637	0.842

TABLE NOTES

- Calculated properties are based on AISI S100-16 (2020) w/S2-20 and AISI S220-20.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per Section A3.3.2 of AISI S100-16 (2020) w/S2-20.
- Tabulated gross properties, including torsional properties, are based on the full unreduced cross section of the tracks.
- 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 the bend radius. Hems on nonstructural track sections are ignored.

[1] Web height-to-thickness ratio exceeds 200. [2] Web height-to-thickness ratio exceeds 260.

PROTRAK® SECTION PROPERTIES 2-1/2" & 3" FLANGE

Member	Design t	F_y	Gross Section Properties						Effective Section Properties at F_y					Torsional Properties				
			Area	Weight	I_x	R_x	I_y	R_y	A_e	I_{xe}	S_{xe}	M_a	V_{ag}	J x1000	C_w	X_o	R_o	β
	(in.)	(ksi)	($in.^2$)	(lb/ft)	($in.^4$)	(in.)	($in.^4$)	(in.)	($in.^2$)	($in.^4$)	($in.^3$)	(in-lb)	(lb)	($in.^4$)	($in.^6$)	(in.)	(in.)	
ProTRAK® – 2-1/2" Flange ProTRAK 25 (15 mil) · ProTRAK 20 (18 mil) · ProTRAK 30 (30 mil) · ProTRAK 33 (33 mil)																		
162PDT250-15	0.0158	50	0.1047	0.356	0.0614	0.766	0.0710	0.824	0.0201	0.0270	0.0152	455	222	0.0087	0.0375	-2.058	2.345	0.230
250PDT250-15	0.0158	50	0.1185	0.403	0.1495	1.123	0.0817	0.831	0.0206	0.0658	0.0242	725	143	0.0099	0.0957	-1.892	2.352	0.353
350PDT250-15[1]	0.0158	50	0.1343	0.457	0.3061	1.510	0.0913	0.825	0.0208	0.1319	0.0345	1,034	101	0.0112	0.2031	-1.737	2.445	0.495
362PDT250-15[1]	0.0158	50	0.1363	0.464	0.3302	1.557	0.0923	0.823	0.0208	0.1419	0.0358	1,073	98	0.0113	0.2199	-1.720	2.462	0.512
400PDT250-15[1]	0.0158	50	0.1422	0.484	0.4091	1.696	0.0953	0.819	0.0208	0.1740	0.0397	1,189	89	0.0118	0.2749	-1.670	2.517	0.560
550PDT250-15[2]	0.0158	50	0.1659	0.564	0.8286	2.235	0.1050	0.795	0.0210	0.3368	0.0552	1,654	64	0.0138	0.5701	-1.500	2.807	0.714
600PDT250-15[2]	0.0158	50	0.1738	0.591	1.0086	2.409	0.1076	0.787	0.0210	0.4035	0.0604	1,809	59	0.0145	0.6968	-1.452	2.921	0.753
162PDT250-18	0.0190	50	0.1258	0.428	0.0741	0.767	0.0853	0.823	0.0282	0.0347	0.0212	635	380	0.0151	0.0452	-2.056	2.344	0.231
250PDT250-18	0.0190	50	0.1425	0.485	0.1801	1.125	0.0981	0.830	0.0290	0.0909	0.0338	1,011	248	0.0171	0.1152	-1.891	2.351	0.353
350PDT250-18	0.0190	50	0.1615	0.549	0.3685	1.511	0.1096	0.824	0.0293	0.1818	0.0482	1,444	176	0.0194	0.2443	-1.736	2.444	0.496
362PDT250-18	0.0190	50	0.1638	0.557	0.3976	1.558	0.1109	0.823	0.0294	0.1954	0.0500	1,498	170	0.0197	0.2645	-1.718	2.461	0.512
400PDT250-18	0.0190	50	0.1710	0.582	0.4924	1.697	0.1144	0.818	0.0295	0.2394	0.0555	1,661	154	0.0206	0.3306	-1.669	2.517	0.560
550PDT250-18[2]	0.0190	50	0.1995	0.679	0.9971	2.236	0.1260	0.795	0.0297	0.4631	0.0773	2,315	112	0.0240	0.6853	-1.499	2.806	0.715
600PDT250-18[2]	0.0190	50	0.2090	0.711	1.2136	2.410	0.1292	0.786	0.0297	0.5549	0.0846	2,533	102	0.0251	0.8375	-1.450	2.920	0.753
162PDT250-30	0.0312	33	0.2060	0.701	0.1230	0.772	0.1390	0.821	0.0820	0.0730	0.0540	1,059	610	0.0670	0.0750	-2.048	2.338	0.233
250PDT250-30	0.0312	33	0.2340	0.796	0.2980	1.129	0.1600	0.828	0.0860	0.1860	0.0970	1,926	832	0.0759	0.1900	-1.883	2.347	0.356
350PDT250-30	0.0312	33	0.2650	0.902	0.6080	1.515	0.1790	0.822	0.0890	0.4010	0.1510	2,987	781	0.0860	0.4020	-1.729	2.441	0.498
362PDT250-30	0.0312	33	0.2690	0.915	0.6560	1.562	0.1810	0.820	0.0890	0.4360	0.1570	3,097	755	0.0872	0.4350	-1.712	2.458	0.515
400PDT250-30	0.0312	33	0.2810	0.956	0.8120	1.701	0.1870	0.816	0.0900	0.5510	0.1730	3,425	683	0.0910	0.5430	-1.662	2.514	0.563
550PDT250-30	0.0312	33	0.3270	1.112	1.6410	2.239	0.2060	0.793	0.0910	1.1900	0.2390	4,727	495	0.1062	1.1240	-1.493	2.805	0.717
600PDT250-30	0.0312	33	0.3430	1.167	1.9970	2.413	0.2110	0.784	0.0920	1.4730	0.2610	5,162	454	0.1113	1.3730	-1.444	2.919	0.755
162PDT250-33	0.0346	33	0.2290	0.779	0.1370	0.774	0.1540	0.821	0.0980	0.0850	0.0630	1,235	677	0.0914	0.0830	-2.046	2.336	0.233
250PDT250-33	0.0346	33	0.2590	0.881	0.3310	1.130	0.1770	0.827	0.1040	0.2140	0.1130	2,225	1,024	0.1034	0.2110	-1.881	2.346	0.357
350PDT250-33	0.0346	33	0.2940	1.000	0.6750	1.516	0.1980	0.821	0.1080	0.4550	0.1830	3,616	1,024	0.1172	0.4460	-1.727	2.440	0.499
362PDT250-33	0.0346	33	0.2980	1.014	0.7280	1.563	0.2000	0.820	0.1080	0.4930	0.1930	3,808	1,024	0.1190	0.4820	-1.710	2.457	0.516
400PDT250-33	0.0346	33	0.3110	1.058	0.9010	1.702	0.2070	0.815	0.1090	0.6220	0.2140	4,221	931	0.1241	0.6020	-1.660	2.514	0.564
550PDT250-33	0.0346	33	0.3630	1.235	1.8210	2.240	0.2280	0.792	0.1110	1.3390	0.2940	5,802	675	0.1449	1.2460	-1.491	2.805	0.717
600PDT250-33	0.0346	33	0.3800	1.293	2.2160	2.414	0.2330	0.783	0.1110	1.6570	0.3200	6,327	619	0.1517	1.5220	-1.443	2.919	0.756
ProTRAK® – 3" Flange ProTRAK 25 (15 mil) · ProTRAK 20 (18 mil) · ProTRAK 30 (30 mil) · ProTRAK 33 (33 mil)																		
162PDT300-15	0.0158	50	0.1205	0.410	0.0726	0.776	0.1160	0.981	0.0202	0.0273	0.0155	465	222	0.0100	0.0626	-2.542	2.834	0.195
250PDT300-15	0.0158	50	0.1343	0.457	0.1753	1.143	0.1331	0.996	0.0206	0.0665	0.0250	748	143	0.0112	0.1583	-2.363	2.807	0.291
350PDT300-15[1]	0.0158	50	0.1501	0.511	0.3560	1.540	0.1488	0.996	0.0208	0.1348	0.0351	1,051	101	0.0125	0.3336	-2.191	2.858	0.412
362PDT300-15[1]	0.0158	50	0.1521	0.517	0.3837	1.589	0.1505	0.995	0.0208	0.1451	0.0364	1,090	98	0.0127	0.3609	-2.172	2.869	0.427
400PDT300-15[1]	0.0158	50	0.1580	0.537	0.4740	1.732	0.1555	0.992	0.0209	0.1783	0.0402	1,204	89	0.0131	0.4505	-2.116	2.909	0.471
550PDT300-15[2]	0.0158	50	0.1817	0.618	0.9505	2.287	0.1720	0.973	0.0210	0.3380	0.0556	1,664	64	0.0151	0.9303	-1.921	3.142	0.626
600PDT300-15[2]	0.0158	50	0.1896	0.645	1.1535	2.467	0.1766	0.965	0.0210	0.4120	0.0607	1,818	59	0.0158	1.1361	-1.865	3.239	0.669
162PDT300-18	0.0190	50	0.1448	0.493	0.0875	0.777	0.1394	0.981	0.0283	0.0356	0.0211	633	380	0.0174	0.0755	-2.540	2.832	0.195
250PDT300-18	0.0190	50	0.1615	0.549	0.2113	1.144	0.1599	0.995	0.0290	0.0921	0.0337	1,009	248	0.0194	0.1906	-2.361	2.806	0.292
350PDT300-18	0.0190	50	0.1805	0.614	0.4287	1.541	0.1787	0.995	0.0294	0.1843	0.0482	1,443	176	0.0217	0.4014	-2.189	2.857	0.413
362PDT300-18	0.0190	50	0.1828	0.622	0.4620	1.590	0.1808	0.994	0.0294	0.1982	0.0500	1,498	170	0.0220	0.4342	-2.170	2.868	0.427
400PDT300-18	0.0190	50	0.1900	0.646	0.5707	1.733	0.1867	0.991	0.0295	0.2429	0.0555	1,661	154	0.0229	0.5419	-2.114	2.908	0.472
550PDT300-18[2]	0.0190	50	0.2185	0.743	1.1439	2.288	0.2066	0.972	0.0297	0.4731	0.0790	2,365	112	0.0263	1.1186	-1.919	3.141	0.627
600PDT300-18[2]	0.0190	50	0.2280	0.775	1.3880	2.468	0.2121	0.965	0.0298	0.5676	0.0862	2,582	102	0.0274	1.3659	-1.863	3.239	0.669
162PDT300-30	0.0312	33	0.2380	0.810	0.1460	0.783	0.2280	0.979	0.0820	0.0780	0.0550	1,081	610	0.0771	0.1250	-2.532	2.826	0.197
250PDT300-30	0.0312	33	0.2650	0.902	0.3500	1.149	0.2610	0.993	0.0870	0.1990	0.1000	1,973	832	0.0860	0.3150	-2.354	2.801	0.294
350PDT300-30	0.0312	33	0.2960	1.007	0.7070	1.546	0.2920	0.993	0.0890	0.4320	0.1490	2,945	781	0.0961	0.6610	-2.182	2.853	0.415
362PDT300-30	0.0312	33	0.3000	1.021	0.7620	1.594	0.2950	0.992	0.0890	0.4700	0.1550	3,056	755	0.0974	0.7140	-2.163	2.864	0.430
400PDT300-30	0.0312	33	0.3120	1.061	0.9410	1.737	0.3050	0.989	0.0900	0.5930	0.1710	3,387	683	0.1012	0.8910	-2.107	2.905	0.474
550PDT300-30	0.0312	33	0.3590	1.221	1.8830	2.292	0.3370	0.970	0.0920	1.2780	0.2380	4,710	495	0.1163	1.8360	-1.913	3.139	0.629
600PDT300-30	0.0312	33	0.3740	1.272	2.2850	2.471	0.3460	0.962	0.0920	1.5800	0.2610	5,152	454	0.1214	2.2410	-1.857	3.237	0.671
162PDT300-33	0.0346	33	0.2640	0.898	0.1620	0.784	0.2520	0.979	0.0980	0.0910	0.0640	1,262	677	0.1051	0.1390	-2.530	2.824	0.197
250PDT300-33	0.0346	33	0.2940	1.000	0.3880	1.150	0.2890	0.993	0.1050	0.2290	0.1150	2,282	1,024	0.1172	0.3490	-2.352	2.800	0.294
350PDT300-33	0.0346	33	0.3280	1.116	0.7860	1.547	0.3230	0.992	0.1080	0.4900	0.1830	3,615	1,024	0.1310	0.7330	-2.180	2.852	0.415
362PDT300-33	0.0346	33	0.3330	1.133	0.8460	1.595	0.3270	0.992	0.1090	0.5320	0.1900	3,751	1,024	0.1328	0.7930	-2.161	2.863	0.430
400PDT300-33	0.0346	33	0.3460	1.177	1.0450	1.738	0.3380	0.989	0.1090	0.6710	0.2100	4,158	931	0.1379	0.9880	-2.105	2.904	0.474
550PDT300-33	0.0346	33	0.3980	1.354	2.0900	2.293	0.3740	0.969	0.1110	1.4400	0.2920	5,767	675	0.1587	2.0360	-1.911	3.139	0.629
600PDT300-33	0.0346	33	0.4150	1.412	2.5350	2.472	0.3840	0.962	0.1120	1.7800	0.3190	6,303	619	0.1656	2.4850	-1.855	3.237	0.671

TABLE NOTES

- Calculated properties are based on AISI S100-16 (2020) w/S2-20 and AISI S220-20.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per Section A3.3.2 of AISI S100-16 (2020) w/S2-20.
- Tabulated gross properties, including torsional properties, are based on the full unreduced cross section of the tracks.
- 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 the bend radius. Hems on nonstructural track sections are ignored.

[1] Web height-to-thickness ratio exceeds 200. [2] Web height-to-thickness ratio exceeds 260.

Allowable Web Crippling Capacities (lb) – Single Members

Member	Design t (in.)	F_y (ksi)	Condition 1 (EOF)				Condition 2 (IOF)				Condition 3 (ETF)				Condition 4 (ITF)				Punchout Reduction R_c	
			1"	3-1/2"	4"	6"	1"	3-1/2"	4"	6"	1"	3-1/2"	4"	6"	1"	3-1/2"	4"	6"	End (E1F)	Interior (I1F)
ProSTUD 25 15 mil · 0.0158" · 50 ksi																				
162PDS125-15	0.0158	50	64	105[3,4]	111[3,4]	132[3,4]	119	173[3,4]	182[3,4]	210[3,4]	41	51[3,4]	53[3,4]	58[3,4]	59	87[3,4]	91[3,4]	106[3,4]	0.849 +0.055x ≤ 1.0	0.877 +0.035x ≤ 1.0
250PDS125-15	0.0158	50	60	98[3]	104[3]	124[3]	116	169[3]	177[3]	204[3]	34	43[3]	44[3]	48[3]	59	87[3]	91[3]	105[3]	0.908 +0.035x ≤ 1.0	0.885 +0.022x ≤ 1.0
350PDS125-15	0.0158	50	56[1]	92[1,3]	97[1,3]	116[1,3]	113[1]	164[1,3]	172[1,3]	198[1,3]	28[1]	35[1,3]	36[1,3]	39[1,3]	59[1]	87[1,3]	91[1,3]	105[1,3]	0.866 +0.024x ≤ 1.0	0.879 +0.016x ≤ 1.0
362PDS125-15	0.0158	50	56[1]	91[1,3]	97[1,3]	115[1,3]	112[1]	164[1,3]	171[1,3]	198[1,3]	27[1]	34[1,3]	35[1,3]	38[1,3]	59[1]	87[1,3]	91[1,3]	105[1,3]	0.871 +0.024x ≤ 1.0	0.88 +0.015x ≤ 1.0
400PDS125-15	0.0158	50	54[1]	89[1,3]	95[1,3]	113[1,3]	111[1]	162[1,3]	170[1,3]	196[1,3]	25[1]	31[1,3]	32[1,3]	36[1,3]	59[1]	87[1,3]	91[1,3]	105[1,3]	0.885 +0.021x ≤ 1.0	0.882 +0.014x ≤ 1.0
550PDS125-15	0.0158	50	50[1,2]	82[1,2,3]	87[1,2,3]	103[1,2,3]	107[1,2]	157[1,2,3]	164[1,2,3]	190[1,2,3]	18[1,2]	22[1,2,3]	23[1,2,3]	25[1,2,3]	59[1,2]	86[1,2,3]	90[1,2,3]	105[1,2,3]	0.92 +0.015x ≤ 1.0	0.887 +0.01x ≤ 1.0
600PDS125-15	0.0158	50	49[1,2]	80[1,2,3]	85[1,2,3]	101[1,2,3]	106[1,2]	155[1,2,3]	162[1,2,3]	188[1,2,3]	15[1,2]	19[1,2,3]	20[1,2,3]	22[1,2,3]	59[1,2]	86[1,2,3]	90[1,2,3]	105[1,2,3]	0.927 +0.014x ≤ 1.0	0.888 +0.009x ≤ 1.0
ProSTUD 20 18 mil · 0.0190" · 70 ksi																				
162PDS125-18	0.0190	70	127	206[4]	218[3,4]	258[3,4]	244	350[4]	366[3,4]	421[3,4]	94	115[4]	118[3,4]	130[3,4]	162	236[4]	247[3,4]	285[3,4]	0.848 +0.055x ≤ 1.0	0.877 +0.035x ≤ 1.0
250PDS125-18	0.0190	70	120	194	205[3]	244[3,4]	237	342	357[3]	411[3,4]	80	99	102[3]	111[3,4]	162	235	246[3]	284[3,4]	0.908 +0.035x ≤ 1.0	0.885 +0.022x ≤ 1.0
350PDS125-18	0.0190	70	113	184	194[3]	230[3]	232	333	348[3]	401[3]	68	83	86[3]	94[3]	161	235	246[3]	283[3]	0.866 +0.025x ≤ 1.0	0.879 +0.016x ≤ 1.0
362PDS125-18	0.0190	70	112	182	193[3]	229[3]	231	332	347[3]	400[3]	66	82	84[3]	92[3]	161	235	246[3]	283[3]	0.871 +0.024x ≤ 1.0	0.88 +0.015x ≤ 1.0
400PDS125-18	0.0190	70	110[1]	179[1]	189[1,3]	224[1,3]	229[1]	330[1]	345[1,3]	397[1,3]	62[1]	77[1]	79[1,3]	86[1,3]	161[1]	235[1]	245[1,3]	283[1,3]	0.884 +0.021x ≤ 1.0	0.882 +0.014x ≤ 1.0
550PDS125-18	0.0190	70	102[1,2]	166[1,2]	176[1,2,3]	209[1,2,3]	222[1,2]	320[1,2]	334[1,2,3]	385[1,2,3]	47[1,2]	59[1,2]	60[1,2,3]	66[1,2,3]	161[1,2]	234[1,2]	245[1,2,3]	282[1,2,3]	0.919 +0.015x ≤ 1.0	0.887 +0.01x ≤ 1.0
600PDS125-18	0.0190	70	100[1,2]	162[1,2]	172[1,2,3]	204[1,2,3]	220[1,2]	317[1,2]	331[1,2,3]	381[1,2,3]	43[1,2]	53[1,2]	55[1,2,3]	60[1,2,3]	161[1,2]	234[1,2]	245[1,2,3]	282[1,2,3]	0.927 +0.014x ≤ 1.0	0.888 +0.009x ≤ 1.0
ProSTUD 30 30 mil · 0.0312" · 33 ksi																				
162PDS125-30	0.0312	33	150	237[4]	250[4]	295[4]	312	433[4]	451[4]	513[4]	150	179[4]	183[4]	198[4]	306	429[4]	447[4]	510[4]	0.846 +0.056x ≤ 1.0	0.876 +0.036x ≤ 1.0
250PDS125-30	0.0312	33	144	227	240	283[4]	306	424	442	503[4]	135	161	165	178[4]	306	428	446	509[4]	0.907 +0.035x ≤ 1.0	0.885 +0.022x ≤ 1.0
350PDS125-30	0.0312	33	138	218	230	271	301	417	434	493	121	144	148	160	305	427	446	509	0.865 +0.025x ≤ 1.0	0.879 +0.016x ≤ 1.0
362PDS125-30	0.0312	33	137	217	229	270	300	416	433	492	120	143	146	158	305	427	445	509	0.87 +0.024x ≤ 1.0	0.88 +0.015x ≤ 1.0
400PDS125-30	0.0312	33	136	214	226	266	298	413	430	489	115	137	140	152	305	427	445	508	0.884 +0.022x ≤ 1.0	0.882 +0.014x ≤ 1.0
550PDS125-30	0.0312	33	129	203	214	252	292	404	420	478	99	117	120	130	305	426	444	507	0.919 +0.015x ≤ 1.0	0.887 +0.01x ≤ 1.0
600PDS125-30	0.0312	33	127	200	211	248	290	401	418	475	94	112	114	124	304	426	444	507	0.927 +0.014x ≤ 1.0	0.888 +0.009x ≤ 1.0
ProSTUD 33 33 mil · 0.0346" · 33 ksi																				
162PDS125-33	0.0346	33	182	285[4]	300[4]	354[4]	384	527[4]	549[4]	623[4]	191	227[4]	232[4]	250[4]	395	548[4]	571[4]	650[4]	0.845 +0.056x ≤ 1.0	0.876 +0.036x ≤ 1.0
250PDS125-33	0.0346	33	175	274	289	340[4]	377	518	539	611[4]	174	206	210	227[4]	394	547	570	649[4]	0.906 +0.035x ≤ 1.0	0.885 +0.023x ≤ 1.0
350PDS125-33	0.0346	33	168	263	278	327	370	509	529	601	157	186	190	205	394	547	569	648	0.865 +0.025x ≤ 1.0	0.879 +0.016x ≤ 1.0
362PDS125-33	0.0346	33	167	262	276	325	369	508	528	599	155	184	188	203	393	546	569	648	0.87 +0.024x ≤ 1.0	0.88 +0.015x ≤ 1.0
400PDS125-33	0.0346	33	165	259	273	321	367	505	525	596	150	177	181	196	393	546	569	648	0.883 +0.022x ≤ 1.0	0.882 +0.014x ≤ 1.0
550PDS125-33	0.0346	33	157	246	260	306	360	494	514	583	130	154	158	170	392	545	568	646	0.919 +0.016x ≤ 1.0	0.887 +0.01x ≤ 1.0
600PDS125-33	0.0346	33	155	243	256	301	357	491	511	580	124	147	151	162	392	545	567	646	0.927 +0.014x ≤ 1.0	0.888 +0.009x ≤ 1.0

TABLE NOTES

- Allowable web crippling capacities are calculated in accordance with Section G5 of AISI S100-16 (2020) w/S2-20 for single members and back-to-back members.
- Condition 1: End One-Flange (EOF). Condition 2: Interior One-Flange (IOF). Condition 3: End Two-Flange (ETF). Condition 4: Interior Two-Flange (ITF). Bearing lengths of 1", 3-1/2", 4" and 6" are tabulated.
- Punchout reductions: multiply tabulated values by R_c, where x = nearest distance between the web hole and the edge of bearing (in.).

[1] Web height-to-thickness ratio, h/t, exceeds 200. [2] Web height-to-thickness ratio, h/t, exceeds 260. [3] Bearing length-to-thickness ratio, N/t, exceeds 210. [4] Bearing length-to-web height ratio, N/h, exceeds 1.

Allowable Web Crippling Capacities (lb) – Back-to-Back Members

Member	Design t (in.)	F_y (ksi)	Condition 1 (EOF)				Condition 2 (IOF)				Condition 3 (ETF)				Condition 4 (ITF)				Punchout Reduction R_c	
			1"	3-1/2"	4"	6"	1"	3-1/2"	4"	6"	1"	3-1/2"	4"	6"	1"	3-1/2"	4"	6"	End (E1F)	Interior (I1F)
ProSTUD 25 15 mil · 0.0158" · 50 ksi																				
162PDS125-15	0.0158	50	155	248 [3,4]	262 [3,4]	310 [3,4]	198	279 [3,4]	290 [3,4]	332 [3,4]	83	110 [3,4]	115 [3,4]	129 [3,4]	174	233 [3,4]	242 [3,4]	272 [3,4]	0.849 +0.055x ≤ 1.0	0.877 +0.035x ≤ 1.0
250PDS125-15	0.0158	50	155	248 [3]	261 [3]	309 [3]	198	278 [3]	290 [3]	331 [3]	69	92 [3]	96 [3]	108 [3]	145	194 [3]	202 [3]	227 [3]	0.908 +0.035x ≤ 1.0	0.885 +0.022x ≤ 1.0
350PDS125-15	0.0158	50	154 [1]	247 [1,3]	261 [1,3]	309 [1,3]	197 [1]	277 [1,3]	289 [1,3]	330 [1,3]	56 [1]	75 [1,3]	78 [1,3]	88 [1,3]	118 [1]	158 [1,3]	164 [1,3]	185 [1,3]	0.866 +0.024x ≤ 1.0	0.879 +0.016x ≤ 1.0
362PDS125-15	0.0158	50	154 [1]	247 [1,3]	261 [1,3]	309 [1,3]	197 [1]	277 [1,3]	289 [1,3]	330 [1,3]	55 [1]	73 [1,3]	76 [1,3]	86 [1,3]	115 [1]	154 [1,3]	160 [1,3]	180 [1,3]	0.871 +0.024x ≤ 1.0	0.88 +0.015x ≤ 1.0
400PDS125-15	0.0158	50	154 [1]	247 [1,3]	260 [1,3]	308 [1,3]	197 [1]	277 [1,3]	289 [1,3]	330 [1,3]	51 [1]	68 [1,3]	70 [1,3]	79 [1,3]	106 [1]	142 [1,3]	148 [1,3]	166 [1,3]	0.885 +0.021x ≤ 1.0	0.882 +0.014x ≤ 1.0
550PDS125-15	0.0158	50	154 [1,2]	246 [1,2,3]	260 [1,2,3]	307 [1,2,3]	196 [1,2]	276 [1,2,3]	288 [1,2,3]	329 [1,2,3]	35 [1,2]	47 [1,2,3]	49 [1,2,3]	55 [1,2,3]	75 [1,2]	100 [1,2,3]	104 [1,2,3]	117 [1,2,3]	0.92 +0.015x ≤ 1.0	0.887 +0.01x ≤ 1.0
600PDS125-15	0.0158	50	154 [1,2]	246 [1,2,3]	260 [1,2,3]	307 [1,2,3]	196 [1,2]	276 [1,2,3]	288 [1,2,3]	329 [1,2,3]	31 [1,2]	41 [1,2,3]	43 [1,2,3]	48 [1,2,3]	65 [1,2]	87 [1,2,3]	90 [1,2,3]	102 [1,2,3]	0.927 +0.014x ≤ 1.0	0.888 +0.009x ≤ 1.0
ProSTUD 20 18 mil · 0.0190" · 70 ksi																				
162PDS125-18	0.0190	70	302	479 [4]	505 [3,4]	596 [3,4]	397	551 [4]	574 [3,4]	653 [3,4]	173	229 [4]	237 [3,4]	265 [3,4]	369	487 [4]	504 [3,4]	565 [3,4]	0.848 +0.055x ≤ 1.0	0.877 +0.035x ≤ 1.0
250PDS125-18	0.0190	70	302	478	504 [3]	595 [3,4]	396	550	572 [3]	652 [3,4]	149	196	203 [3]	228 [3,4]	316	417	432 [3]	485 [3,4]	0.908 +0.035x ≤ 1.0	0.885 +0.022x ≤ 1.0
350PDS125-18	0.0190	70	301	477	503 [3]	594 [3]	396	549	571 [3]	650 [3]	125	166	172 [3]	192 [3]	267	353	365 [3]	409 [3]	0.866 +0.025x ≤ 1.0	0.879 +0.016x ≤ 1.0
362PDS125-18	0.0190	70	301	477	503 [3]	593 [3]	396	548	571 [3]	650 [3]	123	162	168 [3]	188 [3]	262	345	358 [3]	401 [3]	0.871 +0.024x ≤ 1.0	0.88 +0.015x ≤ 1.0
400PDS125-18	0.0190	70	301 [1]	476 [1]	502 [1,3]	593 [1,3]	395 [1]	548 [1]	571 [1,3]	650 [1,3]	115 [1]	152 [1]	158 [1,3]	177 [1,3]	245 [1]	324 [1]	335 [1,3]	376 [1,3]	0.884 +0.021x ≤ 1.0	0.882 +0.014x ≤ 1.0
550PDS125-18	0.0190	70	300 [1,2]	475 [1,2]	501 [1,2,3]	592 [1,2,3]	394 [1,2]	547 [1,2]	569 [1,2,3]	648 [1,2,3]	88 [1,2]	116 [1,2]	120 [1,2,3]	135 [1,2,3]	187 [1,2]	247 [1,2]	256 [1,2,3]	287 [1,2,3]	0.919 +0.015x ≤ 1.0	0.887 +0.01x ≤ 1.0
600PDS125-18	0.0190	70	300 [1,2]	475 [1,2]	501 [1,2,3]	591 [1,2,3]	394 [1,2]	546 [1,2]	569 [1,2,3]	647 [1,2,3]	80 [1,2]	105 [1,2]	109 [1,2,3]	122 [1,2,3]	170 [1,2]	224 [1,2]	232 [1,2,3]	260 [1,2,3]	0.927 +0.014x ≤ 1.0	0.888 +0.009x ≤ 1.0
ProSTUD 30 30 mil · 0.0312" · 33 ksi																				
162PDS125-30	0.0312	33	347	532 [4]	560 [4]	655 [4]	490	653 [4]	678 [4]	762 [4]	235	299 [4]	309 [4]	342 [4]	512	651 [4]	672 [4]	743 [4]	0.846 +0.056x ≤ 1.0	0.876 +0.036x ≤ 1.0
250PDS125-30	0.0312	33	346	531	559	654 [4]	489	652	676	761 [4]	212	269	278	308 [4]	461	586	605	669 [4]	0.907 +0.035x ≤ 1.0	0.885 +0.022x ≤ 1.0
350PDS125-30	0.0312	33	346	530	558	653	488	651	675	759	190	242	249	276	414	526	543	600	0.865 +0.025x ≤ 1.0	0.879 +0.016x ≤ 1.0
362PDS125-30	0.0312	33	346	530	558	653	488	651	675	759	188	238	246	272	408	519	535	593	0.87 +0.024x ≤ 1.0	0.88 +0.015x ≤ 1.0
400PDS125-30	0.0312	33	346	530	557	653	488	651	675	759	180	229	237	262	393	499	515	570	0.884 +0.022x ≤ 1.0	0.882 +0.014x ≤ 1.0
550PDS125-30	0.0312	33	345	529	556	651	487	649	673	757	155	197	203	224	336	428	441	488	0.919 +0.015x ≤ 1.0	0.887 +0.01x ≤ 1.0
600PDS125-30	0.0312	33	345	529	556	651	486	649	673	757	147	187	193	213	319	406	419	464	0.927 +0.014x ≤ 1.0	0.888 +0.009x ≤ 1.0
ProSTUD 33 33 mil · 0.0346" · 33 ksi																				
162PDS125-33	0.0346	33	418	636 [4]	669 [4]	781 [4]	598	791 [4]	820 [4]	920 [4]	292	369 [4]	380 [4]	420 [4]	638	805 [4]	830 [4]	916 [4]	0.845 +0.056x ≤ 1.0	0.876 +0.036x ≤ 1.0
250PDS125-33	0.0346	33	417	635	667	780 [4]	597	790	819	918 [4]	265	335	345	381 [4]	579	731	753	831 [4]	0.906 +0.035x ≤ 1.0	0.885 +0.023x ≤ 1.0
350PDS125-33	0.0346	33	416	634	666	779	596	789	817	917	240	303	312	344	524	661	681	752	0.865 +0.025x ≤ 1.0	0.879 +0.016x ≤ 1.0
362PDS125-33	0.0346	33	416	634	666	779	596	789	817	917	237	299	308	340	518	653	673	743	0.87 +0.024x ≤ 1.0	0.88 +0.015x ≤ 1.0
400PDS125-33	0.0346	33	416	634	666	778	595	788	817	916	229	288	297	328	499	630	649	717	0.883 +0.022x ≤ 1.0	0.882 +0.014x ≤ 1.0
550PDS125-33	0.0346	33	415	632	665	777	594	787	815	915	199	251	259	285	434	548	565	623	0.919 +0.016x ≤ 1.0	0.887 +0.01x ≤ 1.0
600PDS125-33	0.0346	33	415	632	664	776	594	786	815	914	190	239	247	272	415	523	539	595	0.927 +0.014x ≤ 1.0	0.888 +0.009x ≤ 1.0

TABLE NOTES

- Allowable web crippling capacities are calculated in accordance with Section G5 of AISI S100-16 (2020) w/S2-20 for single members and back-to-back members.
- Condition 1: End One-Flange (EOF). Condition 2: Interior One-Flange (IOF). Condition 3: End Two-Flange (ETF). Condition 4: Interior Two-Flange (ITF). Bearing lengths of 1", 3-1/2", 4" and 6" are tabulated.
- Punchout reductions: multiply tabulated values by R_c, where x = nearest distance between the web hole and the edge of bearing (in.).

[1] Web height-to-thickness ratio, h/t, exceeds 200. [2] Web height-to-thickness ratio, h/t, exceeds 260. [3] Bearing length-to-thickness ratio, N/t, exceeds 210. [4] Bearing length-to-web height ratio, N/h, exceeds 1.

ProSTUD® Allowable Screw Design Values (lb)

Product	Thickness (mil)	Design t (in.)	F_y (ksi)	F_u (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	Pullover 1-Side	Pullover 2-Side	Pullout	Shear	Pullover 1-Side	Pullover 2-Side	Pullout	Shear	Pullover 1-Side	Pullover 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 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

Product	Thickness (mil)	Design t (in.)	F_y (ksi)	F_u (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	Pullover 1-Side	Pullover 2-Side	Pullout	Shear	Pullover 1-Side	Pullover 2-Side	Pullout	Shear	Pullover 1-Side	Pullover 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 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

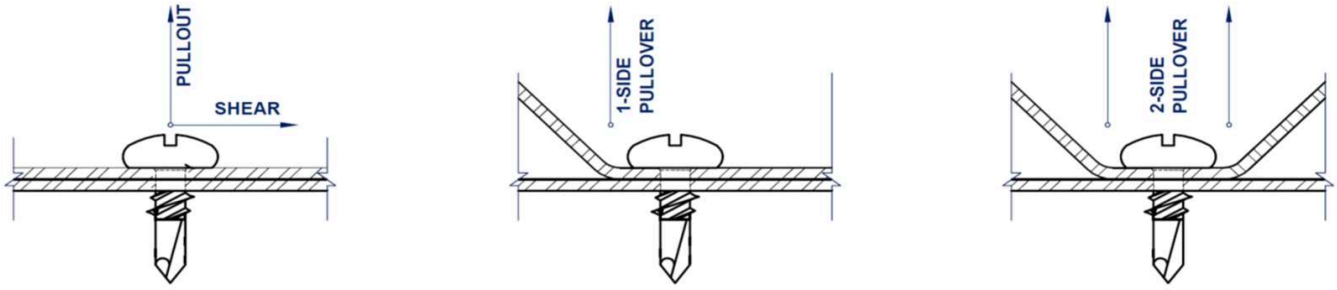


TABLE NOTES

- Allowable screw connection capacities are based on Section J4 of AISI S100-16 (2020) w/S2-20.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected.
- Screw shear and tension capacities were 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), and a center-of-screw to edge-of-steel dimension of at least 1.5d.
- Tension capacity is based on the lesser of pullout capacity in the sheet closest to the screw tip, or pullover capacity for the sheet closest to the screw head (using head diameter).
- Screw capacities are governed by a conservative estimate of screw capacity, not by sheet steel failure. For higher capacities, use specific screws from a specific manufacturer; see the manufacturer's data for allowable values and installation instructions.

CERTIFICATIONS & PRODUCT STANDARDS

CODES & STANDARDS

AISI S100-16 (2020) w/S2-20	North American Specification for the Design of Cold-Formed Steel Structural Members
AISI S220-20	North American Standard for Cold-Formed Steel Framing – Nonstructural Members
AISI S916	Test Standard for Cold-Formed Steel Framing – Composite Wall Assemblies
ICC-ES AC86	Acceptance Criteria for Cold-Formed Steel Framing Members – Interior Nonload-bearing Wall Assemblies
ASTM A653	Coating specification
ASTM A1003	Material specification
ASTM C645	Nonstructural steel framing members
ASTM C754	Installation of steel framing members
ASTM E119	Fire tests of building construction and materials
ASTM E72	Strength tests of panels
ASTM E90	Airborne sound transmission

ProSTUD complies with the 2021 and 2024 International Building Code and the 2023 Florida Building Code, which reference AISI S100 and AISI S220.

FIRE, SOUND & CERTIFICATION

UL® Fire-Resistance Designs. RAM ProSTUD and ProTRAK are UL Classified framing members under UL File R27624 and are listed in 62 fire-resistance designs (28 U-series, 25 V-series and 9 W-series). RAM Slotted Track is listed in 118 UL head-of-wall joint systems (HW-D). See the UL Listings page for design numbers.

Sound. STC ratings for ProSTUD assemblies are based on testing by Western Electro-Acoustic Laboratory.

SFIA Code Compliance Certification. RAM Steel Framing is a member of the Steel Framing Industry Association (SFIA) and participates in the Code Compliance Certification Program, with third-party inspection of manufacturing facilities and product testing.

GREEN BENEFITS & RECYCLED CONTENT

- **LEED v4.1 MRc5 Option 1** – Construction Waste Management: RAM Steel Framing is 100% recyclable.
- **LEED v4.1 MRc3 Option 2** – RAM Steel Framing is formed with a minimum 34.2% post-consumer and 19.8% pre-consumer content.
- **LEED v4.1 MRc2 Option 1** – Environmental Product Declarations (EPD available upon request).
- **LEED v4.1 MRc4** – Material Ingredients (Health Product Declarations – HPD available upon request).
- **LEED v4.1 EQc2** – Low-Emitting Materials (no VOC coatings).

For project-specific recycled content letters, EPDs or HPDs, contact Technical Support at 1-844-4-0-STUDS (1-844-407-8837).

Disclaimer: RAM Steel Framing / Ram Sales, LLC ("RAM Sales"): all data, specifications and details contained herein are intended as a general guide for using RAM Sales products. These products should not be used in design or construction without an independent evaluation by a qualified engineer or architect. RAM Sales assumes no liability for failure resulting from use or misapplication, and reserves the right to make modifications and/or change materials of any of its products without prior notice or obligation.

UL FIRE-RESISTANCE LISTINGS

RAM ProSTUD® drywall studs, ProTRAK® drywall track and RAM Slotted Track are classified by UL Solutions under **File R27624** (Ram Sales, LLC). The designs below list RAM framing members as an approved component. Construction must comply with every requirement of the individual UL design, including stud depth, thickness, spacing and gypsum board type. Verify current listings in UL Product iQ® before specifying.

PROSTUD® & PROTRAK® – FIRE-RESISTANCE DESIGNS (62)

U-Series Wall & Partition Designs (28)

U403	U407	U408	U411	U412	U419	U420	U421	U431	U435
U436	U444	U450	U451	U454	U463	U465	U466	U471	U475
U478	U490	U491	U493	U494	U495	U496	U4116		

V-Series Wall & Partition Designs (25)

V410	V412	V416	V417	V418	V419	V425	V435	V437	V438
V442	V443	V444	V448	V449	V450	V452	V464	V469	V476
V487	V488	V489	V496	V498					

W-Series Wall & Partition Designs (9)

W411	W415	W424	W425	W433	W440	W461	W482	W483	

RAM SLOTTED TRACK – HEAD-OF-WALL JOINT SYSTEMS (118)

Dynamic head-of-wall (HW-D) joint systems listing RAM Slotted Track framing members for use with the ProSTUD system at the top of rated interior walls.

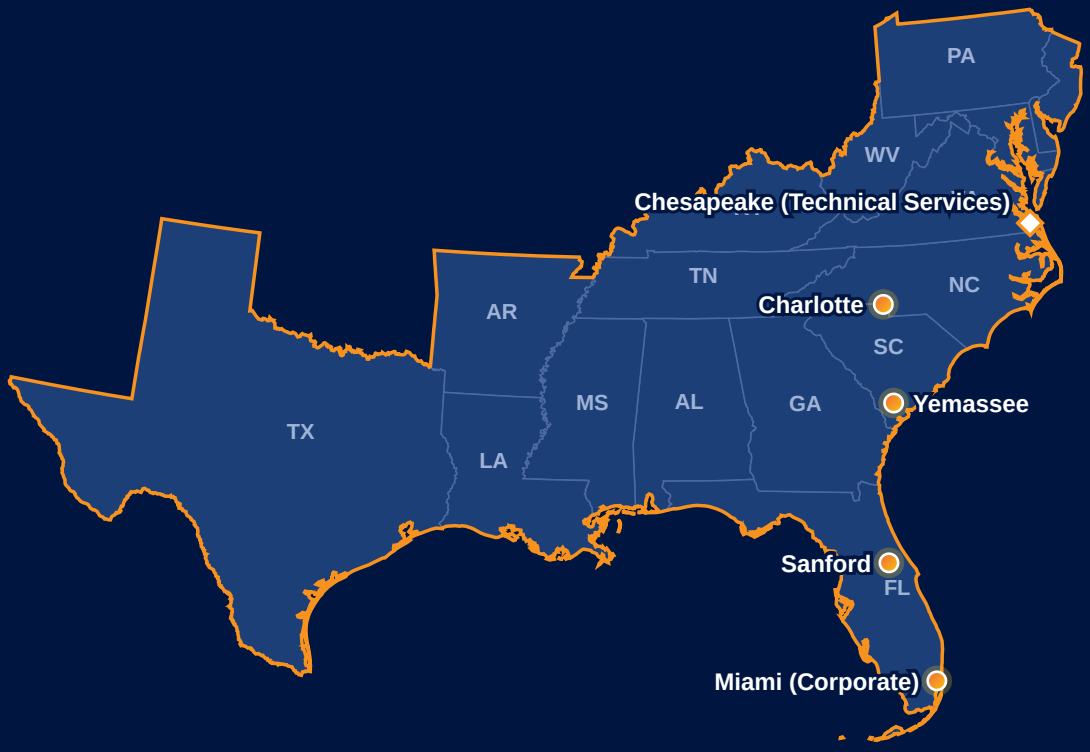
HW-D-0003	HW-D-0020	HW-D-0021	HW-D-0024	HW-D-0025	HW-D-0029	HW-D-0031	HW-D-0034	HW-D-0036	HW-D-0042
HW-D-0043	HW-D-0044	HW-D-0045	HW-D-0046	HW-D-0049	HW-D-0054	HW-D-0062	HW-D-0063	HW-D-0071	HW-D-0072
HW-D-0073	HW-D-0076	HW-D-0077	HW-D-0082	HW-D-0083	HW-D-0084	HW-D-0085	HW-D-0087	HW-D-0088	HW-D-0089
HW-D-0099	HW-D-0101	HW-D-0102	HW-D-0103	HW-D-0106	HW-D-0107	HW-D-0108	HW-D-0111	HW-D-0134	HW-D-0136
HW-D-0137	HW-D-0152	HW-D-0154	HW-D-0162	HW-D-0184	HW-D-0185	HW-D-0190	HW-D-0194	HW-D-0210	HW-D-0218
HW-D-0241	HW-D-0242	HW-D-0243	HW-D-0252	HW-D-0259	HW-D-0260	HW-D-0263	HW-D-0264	HW-D-0272	HW-D-0278
HW-D-0313	HW-D-0322	HW-D-0365	HW-D-0420	HW-D-0453	HW-D-0456	HW-D-0461	HW-D-0462	HW-D-0463	HW-D-0476
HW-D-0477	HW-D-0483	HW-D-0484	HW-D-0485	HW-D-0486	HW-D-0517	HW-D-0532	HW-D-0541	HW-D-0542	HW-D-0548
HW-D-0549	HW-D-0564	HW-D-0569	HW-D-0570	HW-D-0571	HW-D-0572	HW-D-0582	HW-D-0639	HW-D-0640	HW-D-0642
HW-D-0644	HW-D-0645	HW-D-0646	HW-D-0687	HW-D-0689	HW-D-0705	HW-D-0747	HW-D-0748	HW-D-0749	HW-D-0750
HW-D-0801	HW-D-0826	HW-D-0874	HW-D-0875	HW-D-0876	HW-D-0886	HW-D-0906	HW-D-0969	HW-D-0970	HW-D-0978
HW-D-0979	HW-D-0980	HW-D-0981	HW-D-0994	HW-D-1153	HW-D-1155	HW-D-1156	HW-D-1157		

UL listing data per UL Product iQ, File R27624: ProSTUD and ProTRAK revision date 2026-03-26; Slotted Track revision date 2026-08-11. UL and Product iQ are trademarks of UL LLC.

RAM STEEL FRAMING

Superior Roll Forming & Steel Manufacturing

MANUFACTURING & SERVICE AREA



Manufacturing location Technical Services Primary service area – Pennsylvania to Texas

Corporate Office
7400 NW 37th Ave.
Miami, FL 33147

Sanford
1150 Albright Rd.
Sanford, FL 32771

Yemassee
39 Jinks St.
Yemassee, SC 29945

Charlotte
1821 Westinghouse Blvd.
Charlotte, NC 28273

Technical Services
401 Woodlake Dr., Ste. 300
Chesapeake, VA 23320

Sales
1-844-726-6382 | sales@ramsteelframing.com

Technical Support
1-844-4-0-STUDS (1-844-407-8837)

ramsteelframing.com

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