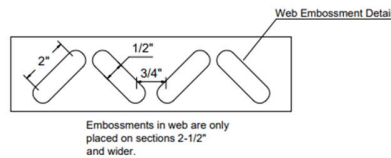
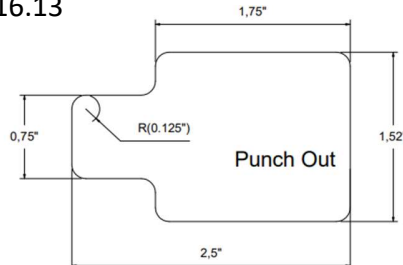


Product Type: Drywall Stud
Product Definition: 350S125-30 33ksi
CSI Code: 09.22.16.13



Profile Properties:

Web Depth	3,500 in	Yield Strength:	33 ksi
Flange Width	1,250 in	Unit Weight	0,65 lb/ft
Stiffening Lip	0,1875 in	Punchout Width / Length	Please see figure
Design Thickness	0,0312 in	Finish	G40
Minimum Thickness	0,0296 in	Color Coding	Pink

Gross Section Properties:

Cross Sectional Area	Agross	0,1900 in ²
Moment of Inertia, x-axis	Ix	0,3516 in ⁴
Radius of Gyration, x-axis	rx	1,3598 in
Moment of Inertia, y-axis	Iy	0,0331 in ⁴
Radius of Gyration, y-axis	ry	0,4174 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0,0617 in ⁴
Warping Constant	Cw	0,0791 in ⁶
Distance Between Shear Axis and Neutral Axis	x0	-0,7843 in
Polar Radius of Gyration	r0	1,6243 in
Torsional Flexural Constant	β	0,7669
Limit of Unbraced Length	Lu	37,61 in

Effective Section Properties:

St. Venant Torsion Constant	J x 1000	0,0617 in ⁴
Warping Constant	Cw	0,0791 in ⁶
Distance Between Shear Axis and Neutral Axis	x0	-0,7843 in
Polar Radius of Gyration	r0	1,6243 in
Torsional Flexural Constant	β	0,7669

Codes & Standards:

- Calculations are based on AISI S220-20 and AISI S100-16.
- Complies with IBC2021, ASTM C645, ASTM C754, ASTM A653, ASTM A1003, ASTM E72
- Intertek Certificate of Compliance No: COC-WHI23-37729201
- LEED / Sustainability Credits: Environmental Product Declaration S-P Code: S-P-00869

Limiting Heights, Non Composite (ft-in):

Profile	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
12	19' - 8"	16' - 8"	14' - 7"	16' - 3"	14' - 7"	12' - 9"	14' - 2"	13' - 3"	11' - 7"
16	17' - 2"	15' - 2"	13' - 3"	14' - 2"	13' - 3"	11' - 7"	12' - 4"	12' - 0"	10' - 6"
24	14' - 2"	13' - 3"	11' - 7"	11' - 8"	11' - 7"	10' - 1"	10' - 2"	10' - 2"	9' - 2"

- Heights are based on AISI S220-20 and AISI S100-16, using steel properties alone.
- Above listed Non-Composite Limiting Heights are applicable when the unbraced length is less than or equal to L_u . Heights are limited by moment, deflection and shear.

Limiting Heights, Composite – Fully Braced (ft-in):

Profile	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
12	22' - 6"	17' - 11"	15' - 8"	19' - 8"	15' - 8"	13' - 8"	17' - 11"	14' - 2"	12' - 4"
16	20' - 6"	16' - 3"	14' - 2"	17' - 11"	14' - 2"	12' - 4"	16' - 3"	12' - 11"	11' - 1"
24	17' - 11"	14' - 2"	12' - 4"	15' - 8"	12' - 4"	10' - 7"	13' - 9"	11' - 1"	-

- The composite limiting heights are taken from ASTM C754-20 and based on a single layer of 5/8" Type X gypsum board to each stud flange.
- The gypsum board must be applied full height in the vertical orientation in accordance with ASTM C754 using minimum No. 6 Type S Drywall screws.
- Screws shall be spaced a maximum of 16 in on-center to framing members (including top & bottom track] spaced at 16 in or 12 in on-center.
- Screws shall be spaced a maximum of 12 in on-center to framing members (including top & bottom track] spaced at 24 in on-center.
- 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.

