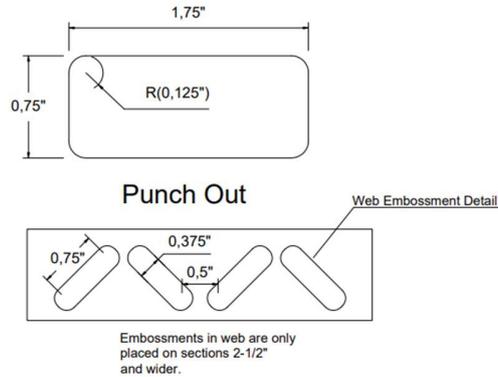
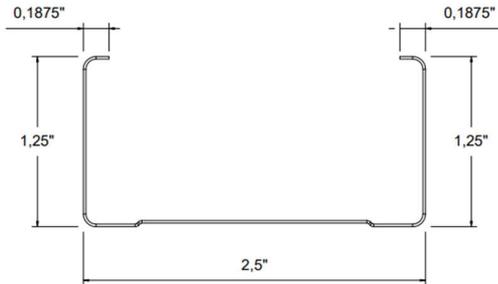


Product Type: Drywall Stud
Product Definition: 250S125-33 33ksi
CSI Code: 09.22.16.13



Profile Properties:

Web Depth	2,500 in	Yield Strength:	33 ksi
Flange Width	1,250 in	Unit Weight	0,59 lb/ft
Stiffening Lip	0,1875 in	Punchout Width / Length	0,75 in / 1,75 in
Design Thickness	0,0346 in	Finish	G40
Minimum Thickness	0,0329 in	Color Coding	White

Gross Section Properties:

Cross Sectional Area	Agross	0,1757 in ²
Moment of Inertia, x-axis	Ix	0,1780 in ⁴
Radius of Gyration, x-axis	rx	1,0065 in
Moment of Inertia, y-axis	Iy	0,0327 in ⁴
Radius of Gyration, y-axis	ry	0,4315 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0,0701 in ⁴
Warping Constant	Cw	0,0404 in ⁶
Distance Between Shear Axis and Neutral Axis	x0	-0,8856 in
Polar Radius of Gyration	r0	1,4084 in
Torsional Flexural Constant	β	0,6046
Limit of Unbraced Length	Lu	37,78 in

Effective Section Properties:

Effective Area	Aeff	0,1719 in ²
Effective Moment of Inertia for Deflection	Ixe	0,1750 in ⁴
Effective Section Modulus	Sxe	0,1386 in ³
Allowable Bending Moment	Ma	2,4000 in.k
Allowable Shear Force	Vag	987 lbs

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	16' - 9"	13' - 3"	11' - 7"	14' - 6"	11' - 7"	10' - 2"	12' - 8"	10' - 6"	9' - 2"
16	15' - 2"	12' - 1"	10' - 6"	12' - 8"	10' - 6"	9' - 2"	11' - 0"	9' - 7"	8' - 4"
24	12' - 8"	10' - 6"	9' - 2"	10' - 5"	9' - 2"	8' - 0"	9' - 0"	8' - 4"	7' - 4"

- 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	19' - 8"	15' - 8"	13' - 8"	17' - 3"	13' - 8"	11' - 11"	15' - 8"	12' - 5"	10' - 10"
16	17' - 11"	14' - 3"	12' - 5"	15' - 8"	12' - 5"	10' - 10"	14' - 3"	11' - 3"	9' - 10"
24	15' - 8"	12' - 5"	10' - 10"	13' - 8"	10' - 10"	9' - 5"	12' - 4"	9' - 10"	8' - 4"

- 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.

