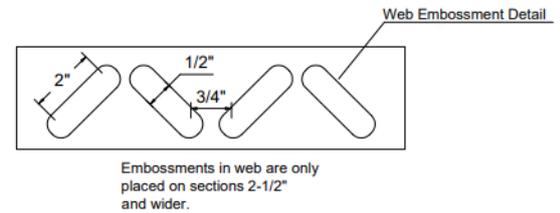
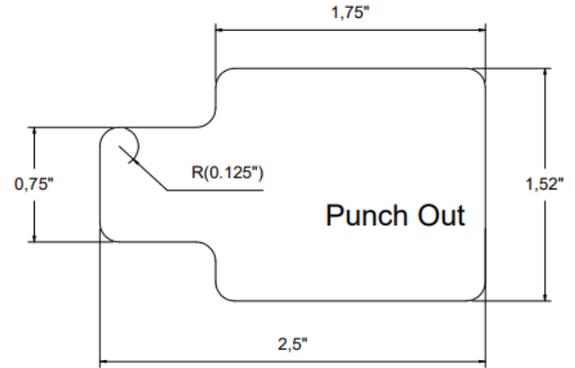


**Product Type:** Drywall Stud  
**Product Definition:** 350S125-33 33ksi  
**CSI Code:** 09.22.16.13



## Profile Properties:

Web Depth 3,500 in  
 Flange Width 1,250 in  
 Stiffening Lip 0,1875 in  
 Design Thickness 0,0346 in  
 Minimum Thickness 0,0329 in

Yield Strength: 33 ksi  
 Unit Weight 0,72 lb/ft  
 Punchout Width / Length Please see figure  
 Finish G40  
 Color Coding

## Gross Section Properties:

Cross Sectional Area	Agross	0,2118 in <sup>2</sup>
Moment of Inertia, x-axis	Ix	0,3918 in <sup>4</sup>
Radius of Gyration, x-axis	rx	1,3599 in
Moment of Inertia, y-axis	Iy	0,0354 in <sup>4</sup>
Radius of Gyration, y-axis	ry	0,4090 in

## Torsional Properties:

St. Venant Torsion Constant	J x 1000	0,0845 in <sup>4</sup>
Warping Constant	Cw	0,0806 in <sup>6</sup>
Distance Between Shear Axis and Neutral Axis	x0	-0,7460 in
Polar Radius of Gyration	r0	1,6041 in
Torsional Flexural Constant	β	0,7680
Limit of Unbraced Length	Lu	37,32 in

## Effective Section Properties:

Effective Area	Aeff	0,2093 in <sup>2</sup>
Effective Moment of Inertia for Deflection	Ixe	0,3852 in <sup>4</sup>
Effective Section Modulus	Sxe	0,2177 in <sup>3</sup>
Allowable Bending Moment	Ma	3,9757 in.k
Allowable Shear Force	Vag	945 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	21' 2"	17' 2"	15' 0"	17' 6"	15' 0"	13' 2"	15' 3"	13' 8"	11' 11"
16	18' 6"	15' 8"	13' 8"	15' 3"	13' 8"	11' 11"	13' 3"	12' 5"	10' 10"
24	15' 3"	13' 8"	11' 11"	12' 6"	11' 11"	10' 5"	10' 11"	10' 10"	9' 6"

- 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 Lu. 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	23' 0"	18' 3"	15' 11"	20' 1"	15' 11"	13' 11"	18' 3"	14' 6"	12' 8"
16	20' 11"	16' 7"	14' 6"	18' 3"	14' 6"	12' 8"	16' 7"	13' 2"	11' 4"
24	18' 3"	14' 6"	12' 8"	15' 11"	12' 8"	10' 10"	14' 4"	11' 4"	9' 8"

- 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.