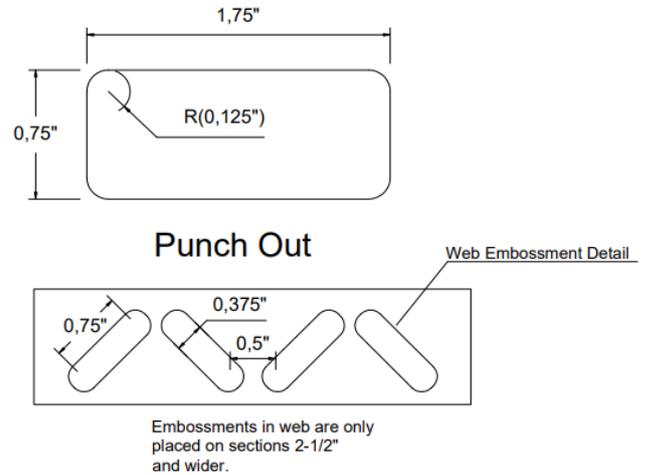
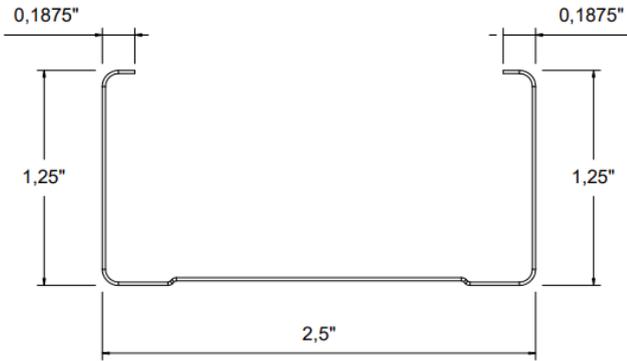


**Product Type:** Drywall Stud  
**Product Definition:** 250S125-30 33ksi  
**CSI Code:** 09.22.16.13



## Profile Properties:

Web Depth 2,500 in  
 Flange Width 1,250 in  
 Stiffening Lip 0,1875 in  
 Design Thickness 0,0312 in  
 Minimum Thickness 0,0296 in

Yield Strength: 33 ksi  
 Unit Weight 0,54 lb/ft  
 Punchout Width / Length 0,75 in / 1,75 in  
 Finish G40  
 Color Coding

## Gross Section Properties:

Cross Sectional Area  
 Moment of Inertia, x-axis  
 Radius of Gyration, x-axis  
 Moment of Inertia, y-axis  
 Radius of Gyration, y-axis

Agross 0,1600 in<sup>2</sup>  
 Ix 0,1630 in<sup>4</sup>  
 rx 1,0091 in  
 Iy 0,0292 in<sup>4</sup>  
 ry 0,4274 in

## Torsional Properties:

St. Venant Torsion Constant  
 Warping Constant  
 Distance Between Shear Axis and Neutral Axis  
 Polar Radius of Gyration  
 Torsional Flexural Constant  
 Limit of Unbraced Length

J x 1000 0,0518 in<sup>4</sup>  
 Cw 0,0343 in<sup>6</sup>  
 x0 -0,8560 in  
 r0 1,3903 in  
 β 0,6035  
 Lu 38,03 in

## Effective Section Properties:

Effective Area	Aeff	0,1576 in <sup>2</sup>
Effective Moment of Inertia for Deflection	Ixe	0,1600 in <sup>4</sup>
Effective Section Modulus	Sxe	0,1263 in <sup>3</sup>
Allowable Bending Moment	Ma	2,2059 in.k
Allowable Shear Force	Vag	830 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' 2"	12' 10"	11' 3"	13' 7"	11' 3"	9' 10"	11' 0"	10' 2"	8' 11"
16	14' 4"	11' 8"	10' 2"	11' 0"	10' 2"	8' 11"	10' 3"	9' 3"	8' 1"
24	11' 10"	10' 3"	8' 11"	9' 8"	8' 11"	7' 9"	8' 5"	8' 1"	7' 1"

- 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	18' 5"	15' 10"	14' 1"	16' 1"	13' 10"	12' 4"	14' 7"	12' 7"	11' 2"
16	16' 9"	14' 5"	12' 10"	14' 7"	12' 7"	11' 2"	13' 3"	11' 5"	10' 2"
24	14' 7"	12' 7"	11' 2"	12' 9"	11' 0"	9' 9"	11' 7"	10' 0"	8' 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.