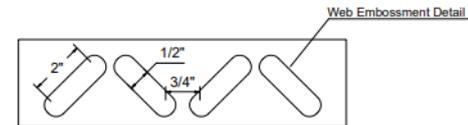
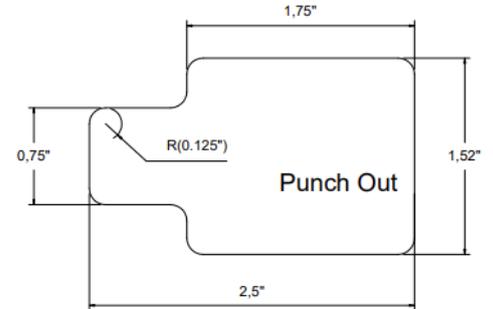
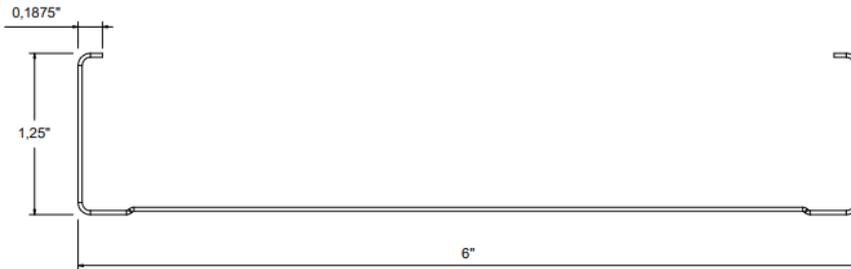


**Product Type:** Drywall Stud  
**Product Definition:** 600S125-18 20EQ  
**CSI Code:** 09.22.16.13



Embossments in web are only placed on sections 2-1/2\" and wider.

### Profile Properties:

Web Depth	6,000 in	Yield Strength:	70 ksi
Flange Width	1,250 in	Unit Weight	0,56 lb/ft
Stiffening Lip	0,1875 in	Punchout Width / Length	Please see figure
Design Thickness	0,0188 in	Finish	G40
Minimum Thickness	0,0179 in	Color Coding	

### Gross Section Properties:

Cross Sectional Area	Agross	0,1633 in <sup>2</sup>
Moment of Inertia, x-axis	Ix	0,7849 in <sup>4</sup>
Radius of Gyration, x-axis	rx	2,1921 in
Moment of Inertia, y-axis	Iy	0,0223 in <sup>4</sup>
Radius of Gyration, y-axis	ry	0,3697 in

### Torsional Properties:

St. Venant Torsion Constant	J x 1000	0,0193 in <sup>4</sup>
Warping Constant	Cw	0,1565 in <sup>6</sup>
Distance Between Shear Axis and Neutral Axis	x0	-0,5766 in
Polar Radius of Gyration	r0	2,2967 in
Torsional Flexural Constant	β	0,9370
Limit of Unbraced Length	Lu	23,84 in

## Effective Section Properties:

Effective Area	Aeff	0,1195 in <sup>2</sup>
Effective Moment of Inertia for Deflection	Ixe	0,6149 in <sup>4</sup>
Effective Section Modulus	Sxe	0,1734 in <sup>3</sup>
Allowable Bending Moment	Ma	5,4372 in.k
Allowable Shear Force	Vag	100 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	25' 1"	19' 11"	17' 5"	21' 11"	17' 5"	15' 3"	19' 11"	15' 10"	13' 10"
16	22' 10"	18' 1"	15' 10"	19' 11"	15' 10"	13' 10"	15' 0"	14' 5"	12' 7"
24	19' 11"	15' 10"	13' 10"	13' 4"	13' 4"	12' 1"	10' 0"	10' 0"	10' 0"

- 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	32' 1"	25' 6"	22' 3"	28' 1"	22' 3"	18' 5"	24' 4"	20' 3"	17' 8"
16	29' 10"	23' 8"	20' 8"	24' 10"	20' 8"	18' 1"	21' 6"	18' 9"	16' 4"
24	25' 5"	21' 1"	18' 5"	20' 9"	18' 5"	16' 1"	18' 0"	16' 9"	14' 6"

- 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.