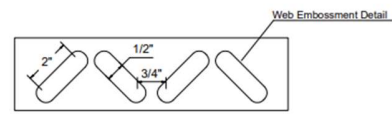
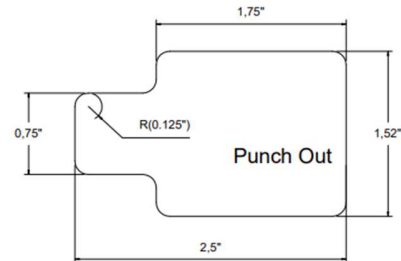
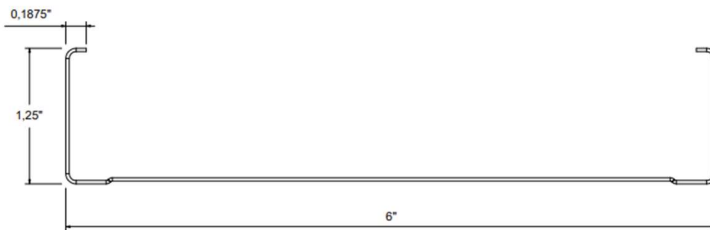


Product Type: Drywall Stud
Product Definition: 600S125-33 33ksi
CSI Code: 09.22.16.13



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

Profile Properties:

Web Depth	6,000 in	Yield Strength:	33 ksi
Flange Width	1,250 in	Unit Weight	1,00 lb/ft
Stiffening Lip	0,1875 in	Punchout Width / Length	Please see figure
Design Thickness	0,0346 in	Finish	G40
Minimum Thickness	0,0329 in	Color Coding	White

Gross Section Properties:

Cross Sectional Area	Agross	0,2968 in ²
Moment of Inertia, x-axis	Ix	1,4099 in ⁴
Radius of Gyration, x-axis	rx	2,1795 in
Moment of Inertia, y-axis	Iy	0,0417 in ⁴
Radius of Gyration, y-axis	ry	0,3747 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0,1184 in ⁴
Warping Constant	Cw	0,3002 in ⁶
Distance Between Shear Axis and Neutral Axis	x0	-0,6080 in
Polar Radius of Gyration	r0	2,2936 in
Torsional Flexural Constant	β	0,9297
Limit of Unbraced Length	Lu	30,86 in

Effective Section Properties:

Effective Area	Aeff	0,2735 in ²
Effective Moment of Inertia for Deflection	Ixe	1,3780 in ⁴
Effective Section Modulus	Sxe	0,4307 in ³
Allowable Bending Moment	Ma	6,3200 in.k
Allowable Shear Force	Vag	658 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	27' - 4"	26' - 3"	22' - 11"	22' - 10"	22' - 10"	20' - 0"	20' - 1"	20' - 1"	18' - 2"
16	24' - 1"	23' - 10"	20' - 10"	20' - 1"	20' - 1"	18' - 2"	17' - 7"	17' - 7"	16' - 6"
24	20' - 1"	20' - 1"	18' - 2"	16' - 8"	16' - 8"	15' - 11"	14' - 6"	14' - 6"	14' - 5"

- 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	35' - 4"	28' - 1"	24' - 6"	30' - 10"	24' - 6"	21' - 5"	27' - 10"	22' - 3"	19' - 5"
16	32' - 1"	25' - 6"	22' - 3"	27' - 10"	22' - 3"	19' - 5"	24' - 1"	20' - 3"	17' - 8"
24	27' - 10"	22' - 3"	19' - 5"	22' - 9"	19' - 5"	16' - 11"	19' - 8"	17' - 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.

