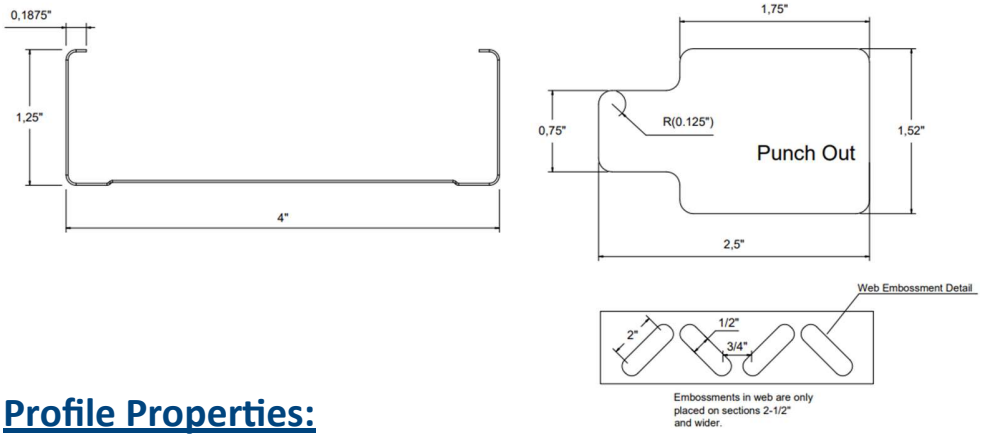
PRODUCT SUBMITTAL SHEET

Product Type: Drywall Stud
Product Definition: 400S125-30 33ksi
CSI Code: 09.22.16.13



Profile Properties:

Web Depth	4,000 in	Yield Strength:	33 ksi
Flange Width	1,250 in	Unit Weight	0,70 lb/ft
Stiffening Lip	0,1875 in	Punchout Width / Length	Please see figure
Design Thickness	0,0312 in	Finish	G40
Minimum Thickness	0,0296 in	Color Coding	Pink

Gross Section Properties:

Cross Sectional Area	Agross	0,2057 in2
Moment of Inertia, x-axis	Ix	0,4813 in4
Radius of Gyration, x-axis	rx	1,5294 in
Moment of Inertia, y-axis	Iy	0,0344 in4
Radius of Gyration, y-axis	ry	0,4089 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0,0668 in4
Warping Constant	Cw	0,1074 in6
Distance Between Shear Axis and Neutral Axis	x0	-0,7415 in
Polar Radius of Gyration	r0	1,7482 in
Torsional Flexural Constant	β	0,8201
Limit of Unbraced Length	Lu	37,26 in

Effective Section Properties:

Effective Area	Aeff	0,2027 in2
Effective Moment of Inertia for Deflection	Ixe	0,4740 in4
Effective Section Modulus	Sxe	0,2353 in3
Allowable Bending Moment	Ma	3,4400 in.k
Allowable Shear Force	Vag	737 lbs

1417 Irving Park Rd.
Suite Number: B-1 6,
Franklin Park, IL 60131-3882
sales@umsmetal.com
engineering@umsmetal.com

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' - 1"	18' - 6"	16' - 2"	17' - 5"	16' - 2"	14' - 2"	15' - 3"	14' - 8"	12' - 10"
16	18' - 5"	16' - 10"	14' - 8"	15' - 3"	14' - 8"	12' - 10"	13' - 3"	13' - 3"	11' - 8"
24	15' - 3"	14' - 8"	12' - 10"	12' - 7"	12' - 7"	11' - 3"	10' - 11"	10' - 11"	10' - 2"

- 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	24' - 6"	19' - 5"	17' - 0"	21' - 5"	17' - 0"	14' - 10"	19' - 5"	15' - 5"	13' - 6"
16	22' - 3"	17' - 8"	15' - 5"	19' - 5"	15' - 5"	13' - 6"	17' - 5"	14' - 0"	12' - 2"
24	19' - 5"	15' - 5"	13' - 6"	16' - 5"	13' - 6"	11' - 7"	14' - 2"	12' - 2"	10' - 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.

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