www.studsunlimited.com

Product Category: 092216 - Non-Structural Framing
Product Name: 162S125-30

Important Properties Notes:

- Calculated properties are based on AISI S100-12 with S2-10 Supplement, North American Specification for Design of Cold-Formed Steel Structural Members.
- The centerline bend radius is based on inside corner radii shown in thickness chart.
- Effective properties incorporate the strength cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties are based on full-section of the studs, away from punchouts.
- For deflection calculations, use the effective
- Allowable moment includes cold-work of forming.
- For the steels that have both 33 and 50 ksi listing, if the design is based on 50 ksi, the 50 ksi steel needs to be specified. (ex. 362S162-43 (50 ksi))

Project Information
Name:
Address:

Contractor Information
Name:
Contact:
Phone:
Fax:

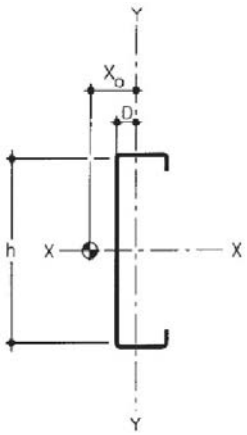
Architect Information
Name:
Contact:
Phone:
Fax:

Distributor/Rep Information
Name:
Contact:
Phone:
Email /Web:

Properties

162S125-30 Properties

Finish:	G90	
Web Depth	1-5/8"	in
Flange Width	1-1/4"	in
Design Thickness	0.0312	in
Yield stress, Fy	33	ksi
Weight	0.448	lb/ft



162S125-30 Section Properties

Gross Section Properties

Cross sectional area (A)	0.132	in^2
Moment of inertia (Ix)	0.061	In^4
Section Modulus (Sx)	0.075	in
Radius of gyration (Rx)	0.681	in^4
Gross moment of inertia (Iy)	0.026	in
Gross Radius of gyration (Ry)	0.441	in^2

Effective Section Properties

Moment of inertia for deflection (Ixe)	0.054	in^4
Section modulus (Sxe)	0.063	in^3
Allowable bending moment (Ma)	1.24	In-lbs
Allowable bending moment (Ma-D)	1.29	In-k
(Vag)	543	lb
(Vanet)	106	lb
Ycg	0.874	in
Fya	33	ksi

Torsional Properties

St. Venant torsion constant (J x 1000)	0.043	in^6
Warping constant (Cw)	0.014	in
Distance from shear center to neutral axis (Xo)	-1.014	in
m	0.585	
Radii of gyration (Ro)	1.299	
Torsional flexural constant (Beta)	0.39	
Unbraced Length (Lu)	29.2	

Product Category: 05 41 00 - Structural Framing
Product Name: 162S125-30

Limiting Heights Properties

Non-Composite Limiting Heights - Fully Braced

Spacing (inches)	5psf			10psf		
	L/120	L/240	L/360	L/120	L/240	L/360
12	11'-2"	8'-11"	7'-9"	7'-1"	6'-2"	5'-2"
16	10'-2"	8'-1"	7'-1"	6'-5"	5'-7"	4'-8"
24	8'-11"	7'-1"	6'-2"	5'-7"	4'-10"	4'-1"

Fully Braced Non-Composite Limiting Heights Table Notes
-All curtain wall studs above based on Fy=33 KSI.
-Lateral loads do not include 0.7 reduction for deflection.
-Loads shown have NOT been reduced for strength or deflection design; full load is considered.
-Limiting heights are based on no composite action.
-Cold-rolled channel (CRC) or other AISI approved lateral bracing is required at 4'-0" on center, max.
-Limiting heights may be controlled by moment or deflection.

Additional Specification Information

Studs Unlimited is an SFIA member. Studs Unlimited acts in accordance with the product and quality standards required by the SFIA program.
Studs Unlimited meets or exceeds ASTM C955, A653, and A1003.

LEED Specification Information

Materials & Resources Credit 2: Construction Waste Management - Studs Unlimited Steel Framing Products are formed from steel and are 100% recyclable. **(1 point)**

Materials & Resources Credit 4: Recycled Content intends to increase demand for building products that incorporate recycled content materials, therefore reducing impacts resulting from extraction and processing of new virgin materials. As discussed and demonstrated below, North American steel building products contribute positively toward points under Credits 4.1 and 4.2. The following is required by LEED-NC Versions 2.2 and 2009:

Credit 4.1 (1 point) Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 10%(based on cost) of the total value of the materials in the project.

Credit 4.2 (1 point) Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 20% of the total value of the materials in the project.

Materials & Resources Credit 5: Regional Materials - Contact Studs Unlimited directly for information at bjpowell@studsunlimited.com. Studs Unlimited is located in Oklahoma City, Oklahoma. **(1 point)**