

Product Category: 05 41 00 - Structural Framing Product Name: 1400T300-68

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.

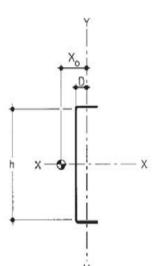
- Tabulated gross properties are based on full-
- section of the studs, away from punchouts.
- For deflection calculations, use the effective
- Allowable moment includes cold-work of forming.
- For the steels that have both 33 and 50 ksi listing, if the design is based on 50 ksi, the 50 ksi steel needs to be

specified. (ex. 362S162-43 (50 ksi))

Properties

1400T300-68 Properties

Finish:	G90
Web Depth	14" in
Flange Width	3" in
Design Thickness	0.0713 in
Thickness	68mils or 14G
Yield stress, Fy	50 ksi
Weight	2.501 lb/ft



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Project Information

Name: Address:

Contractor Information Name:

Contact: Phone: Fax:

Architect Information

Name: Contact: Phone: Fax:

Distributor/Rep Information

Contact: Phone: Email /Web:

1400T300-68 Section Properties

Gross Section Properties

Cross sectional area (A)	0.735 in2
Moment of inertia (lx)	7.092 In4
Section Modulus (Sx)	1.73 in ₃
Radius of gyration (Rx)	3.106 in
Gross moment of inertia (ly)	0.407 in4
Gross Radius of gyration (Ry)	0.744 in

Effective Section Properties

Moment of inertia for deflection (lxe)	5.895	in4
Section modulus (Sxe)	0.856	inз
Allowable bending moment (Ma)	25.64	In-k
Allowable bending moment from		In-K
distortional buckling (Mad)		
Allowable strong axis shear away	2039	lb
from punch-out (Vag)		
Allowable strong axis shear at	-	lb
punch out (Vanet)		

Torsional Properties

St. Venant torsion constant (J x 1000)	0.785 in4
Warping constant (Cw)	4.87 in6
Distance from shear center to neutral	-1.811 in
axis (Xo)	
Distance from shear center to	1.341 in
mid-plane (M)	
Radii of gyration (Ro)	3.672 in
Torsional flexural constant (Beta)	0.757
Unbraced Length (Lu)	41.4 in

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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)