



Product Category: 05 41 00 - Structural Framing

**Product Name:** 1200T300-68

#### **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 fullsection 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:

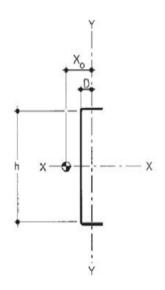
### **Distributor/Rep Information**

Name: Contact: Phone: Email /Web:

### **Properties**

# 1200T300-68 Properties

Finish:	G90
Web Depth	12" in
Flange Width	ვ" in
Design Thickness	0.0713 in
Thickness	68mils or 14G
Yield stress, Fy	50 ksi
Weight	2.309 lb/ft



# 1200T300-68 Section Properties

### **Gross Section Properties**

Cross sectional area (A)	0.679 in <sub>2</sub>
Moment of inertia (lx)	4.213 In <sub>4</sub>
Section Modulus (Sx)	1.359 in <sub>3</sub>
Radius of gyration (Rx)	2.492 in
Gross moment of inertia (ly)	0.622 in4
Gross Radius of gyration (Ry)	0.957 in
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### **Effective Section Properties**

Moment of inertia for deflection (lxe)		3.119	in4
Section modulus (Sxe)		0.711	inз
Allowable bending moment (Ma)		21.3	In-k
Allowable bending moment from			In-K
distortional buckling (Mad)			
Allowable strong axis shear away		2728	lb
from punch-out (Vag)			
Allowable strong axis shear at	-		lb
punch out (Vanet)			

### **Torsional Properties**

St. Venant torsion constant (J x 1000)	0.725 In4
Warping constant (Cw)	4.129 in6
Distance from shear center to neutral	-2.650 in
axis (Xo)	
Distance from shear center to	1.913 in
mid-plane (M)	
Radii of gyration (Ro)	3.716 in
Torsional flexural constant (Beta)	0.504
Unbraced Length (Lu)	49.9 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)

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