

Product Category: 05 41 00 - Structural Framing

Product Name: 1200T250-54

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:

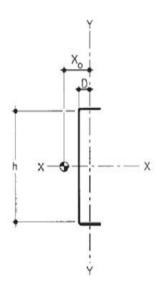
Distributor/Rep Information

Name: Contact: Phone: Email /Web:

Properties

1200T250-54 Properties

Finish:	G90
Web Depth	12" in
Flange Width	2 1/2 in
Design Thickness	0.0566 in
Thickness	54mils or 16G
Yield stress, Fy	50 ksi
Weight	2.761 lb/ft



1200T250-54 Section Properties

Gross Section Properties

0.811 in ₂
2.364 In4
1.085 in ₃
1.707 in
0.318 in4
0.626 in

Effective Section Properties

Moment of ine	ertia for deflection (lxe)		2.275	in4
Section modu	lus (Sxe)		0.911	in3
Allowable ben	ding moment (Ma)		27.28	In-k
Allowable ben	ding moment from			In-K
distortional bu	ckling (Mad)			
Allowable stro	ong axis shear away		7337	lb
from punch-o				
Allowable stro	ong axis shear at	-		lb
punch out (Va	inet)			

Torsional Properties

St. Venant torsion constant (J x 1000)	2.797 In4
Warping constant (Cw)	1.022 inc
Distance from shear center to neutral	-1.192 in
axis (Xo)	
Distance from shear center to	0.715 in
mid-plane (M)	
Radii of gyration (Ro)	2.174 in
Torsional flexural constant (Beta)	0.699
Unbraced Length (Lu)	34.2 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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