



www.studsunlimited.com

Product Category: 05 41 00 - Structural Framing

Product Name: 600T250-43

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

600T250-43 Properties

Finish:	G90
Web Depth	6" in
Flange Width	2 1/2 in
Design Thickness	0.0451 in
Thickness	43mils or 18G
Yield stress, Fy	33 ksi
Weight	2.665 lb/ft



600T250-43 Section Properties

Gross Section Properties

Cross sectional area (A)	0.783 in ²
Moment of inertia (Ix)	4.671 in ⁴
Section Modulus (Sx)	1.495 in ³
Radius of gyration (Rx)	2.442 in
Gross moment of inertia (Iy)	0.472 in ⁴
Gross Radius of gyration (Ry)	0.776 in

Effective Section Properties

Moment of inertia for deflection (Ixe)	3.877 in ⁴
Section modulus (Sxe)	1.017 in ³
Allowable bending moment (Ma)	30.46 In-k
Allowable bending moment from distortional buckling (Mad)	0 In-K
Allowable strong axis shear away from punch-out (Vag)	5350 lb
Allowable strong axis shear at punch out (Vanet)	- lb

Torsional Properties

St. Venant torsion constant (J x 1000)	1.327 in ⁴
Warping constant (Cw)	3.198 in ⁶
Distance from shear center to neutral axis (Xo)	-1.422 in
Distance from shear center to mid-plane (M)	0.869 in
Radii of gyration (Ro)	2.931 in
Torsional flexural constant (Beta)	0.765
Unbraced Length (Lu)	41.8 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)**