Product Category: 09 22 16 - Non-Structural Framing
Product Name: 250T125-30

Important Properties Notes:

- Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members.
- Effective properties are based on steel conforming to ASTM A653, Type B
- Effective section properties incorporate the strength increase from cold working, per specification section A7.2.
- Gross section properties are based on the full-unreduced cross section of the member, away from any punchouts.
- For deflection calculations, use the effective moment of inertia.
- Shear capacities (Va) are taken at locations away from stud punchouts.
- Allowable moments (Ma) are based on members being braced against rotation at 48" intervals, and on continuous lateral support of the compression flange.

Project Information
Name:
Address:

Contractor Information
Name:
Contact:
Phone:
Fax:

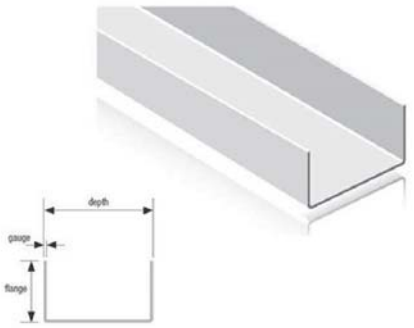
Architect Information
Name:
Contact:
Phone:
Fax:

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

Properties

250T125-30 Properties

Finish:	G40
Web Depth	2-1/2" in
Flange Width	1-1/4" in
Design Thickness	0.0312 in
Yield stress, Fy	33 ksi
Weight	0.531 lb/ft



250T125-30 Section Properties

Gross Section Properties

Cross sectional area (A)	0.156 in^2
Moment of inertia (Ix)	0.173 in^4
Radius of gyration (Sx)	0.131 in
Radius of gyration (Rx)	1.053 in^4
Gross moment of inertia (Iy)	0.025 in
Gross Radius of gyration (Ry)	0.397 In^2

Effective Section Properties

Moment of inertia for deflection (Ixe)	0.146 in^4
Section modulus (Sxe)	0.090 in^3
Allowable bending moment (Ma)	1.77 In-lbs
(Vag)	832 lb
Ycg	1.507
Fya	33 ksi

Torsional Properties

St. Venant torsion constant (J x 1000)	0.051 in^4
Warping constant (Cw)	0.030 in^6
Distance from shear center to neutral axis (Xo)	1.663 in
m	-1.969
Radii of gyration (Ro)	2.008 in
Torsional flexural constant (Beta)	0.314
Unbraced Length (Lu)	25.9

Additional Specification Information

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.