



www.studsunlimited.com

Product Category: 092216 - Non-Structural Framing

Product Name: 250PWT200-19

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.

Project Information

Name:

Address:

Contractor Information

Name:

Contact:

Phone:

Fax:

Architect Information

Name:

Contact:

Phone:

Fax:

Distributor/Rep Information

Name:

Contact:

Phone:

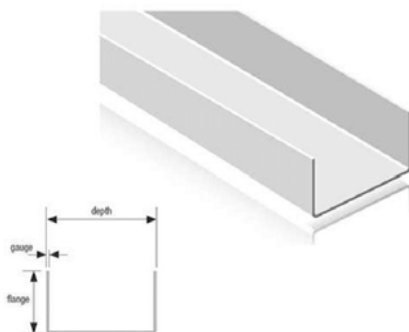
Email /Web:

Properties

250PWT200-19

Properties

Finish: G40
Web Depth 2-1/2" in
Flange Width 2" in
Design Thickness 0.02 in
Yield stress, Fy 55 ksi
Weight 0.440 lb/ft



250PWT200-19

Section Properties

Gross Section Properties

Cross sectional area (A) 0.13 in²
Moment of inertia (Ix) 0.159 in⁴
Section Modulus (Sx) 0.122 in³
Radius of gyration (Rx) 1.106 in
Gross moment of inertia (Iy) 0.057 in⁴
Gross Radius of gyration (Ry) 0.661 in²

Effective Section Properties

Moment of inertia for deflection (Ixe) - in⁴
Section modulus (Sxe) - in³
Allowable bending moment (Ma) - in-lbs
(Vag) - lb
Ycg -
Fya 55 ksi

Torsional Properties

St. Venant torsion constant (J x 1000) 0.017 in⁴
Warping constant (Cw) 0.067 in⁶
Distance from shear center to neutral axis (Xo) -1.428 in
Dist from shear center to mid plain (m) 0.818
Radii of gyration (Ro) 1.923 in
Torsional flexural constant (Beta) 0.449



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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.

Prime Wall is owned by and licensed by MRI Steel Framing

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)**