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Product Category: 092216 - Non-Structural Framing
Product Name: 162PWT125-19

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

162PWT125-19

Finish: G40
 Web Depth: 1-5/8" in
 Flange Width: 1 1/4 in
 Design Thickness: 0.02 in
 Yield stress, F_y : 55 ksi
 Weight: 0.280 lb/ft

Properties

162PWT125-19

Section Properties

Gross Section Properties

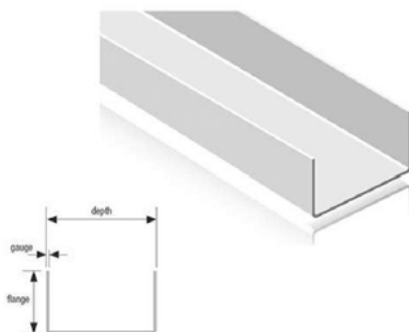
Cross sectional area (A): 0.082 in²
 Moment of inertia (I_x): 0.043 in⁴
 Section Modulus (S_x): 0.05 in³
 Radius of gyration (R_x): 0.725 in⁴
 Gross moment of inertia (I_y): 0.014 in⁴
 Gross Radius of gyration (R_y): 0.411 in²

Effective Section Properties

Moment of inertia for deflection (I_{xe}): 0.029 in⁴
 Section modulus (S_{xe}): 0.024 in³
 Allowable bending moment (M_a): 0.08 in-lbs
 (V_{ag}): 442 lb
 Y_{cg} : -
 F_{ya} : 55 ksi

Torsional Properties

St. Venant torsion constant ($J \times 1000$): 0.011 in⁴
 Warping constant (C_w): 0.007 in⁶
 Distance from shear center to neutral axis (X_o): -0.877 in
 Dist from shear center to mid plain (m): 0.504
 Radii of gyration (R_o): 1.21 in
 Torsional flexural constant (Beta): 0.475





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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)**