Product Submittal Sheet

Technical Services: 888-437-3244
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Geometric Properties
- Inside web depth: 3.625 in
- Leg width: 1.250 in
- Design thickness: 0.0158 in
- Yield stress, Fy: 50 ksi

Gross Section Properties of Full Section, Strong Axis
- Cross sectional area (A): 0.097 in²
- Moment of inertia (Ix): 0.196 in⁴
- Radius of gyration (Rx): 1.425 in
- Gross moment of inertia (Iy): 0.014 in⁴
- Gross radius of gyration (Ry): 0.381 in

Effective Section Properties, Strong Axis
- Effective area (Ae): 0.021 in²
- Moment of inertia for deflection (Ixe): 0.125 in⁴
- Section modulus (Sxe): 0.035 in³
- Allowable bending moment (Ma): 1,059 in-lbs
- Allowable shear force in web (Vag): 98 lb

Torsional Properties
- St. Venant torsion constant (J x 1000): 0.0081 in⁴
- Warping constant (Cw): 0.034 in⁶
- Distance from shear center to neutral axis (Xo): -0.668 in
- Radii of gyration (Ro): 1.619 in
- Torsional flexural constant (Beta): 0.830

Notes:
- Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - Nonstructural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties, including torsional properties, are based on full-unreduced cross section of the tracks.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold work of forming.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.
- Web depth for track sections is equal to the nominal height plus two times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

Sustainability Credits:
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).
LEED 2009 Credit MR 2 & MR 4 -- ClarkDietrich's steel products are 100% recyclable and have a national average recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at (info@clarkdietrich.com / 888-437-3244)