**Geometric Properties**

- Web depth: 6.198 in
- Leg width: 1.25 in
- Design thickness: 0.0566 in
- Min. steel thickness: 0.0538 in
- Yield strength, Fy: 50 ksi
- Ultimate, Fu: 65.0 ksi

**Gross Section Properties of Full Section, Strong Axis**

- Cross sectional area (A): 0.480 in²
- Member weight per foot of length: 1.63 lb/ft
- Moment of inertia (Ix): 2.345 in⁴
- Section modulus (Sx): 0.757 in³
- Radius of gyration (Rx): 2.209 in
- Gross moment of inertia (Iy): 0.054 in⁴
- Gross radius of gyration (Ry): 0.335 in

**Effective Section Properties, Strong Axis**

- Effective Area (Ae): 0.234 in²
- Moment of inertia for deflection (Ix): 2.241 in⁴
- Section modulus (Sx): 0.592 in³
- Allowable bending moment (Ma): 17.74 in-k
- Allowable shear force in web: 2728 lb

**Torsional Properties**

- St. Venant torsion constant (J x 1000): 0.513 in⁴
- Warping constant (Cw): 0.384 in⁶
- Distance from shear center to neutral axis (Xo): -0.508 in
- Distance between shear center and web centerline (m): 0.332 in
- Radii of gyration (Ro): 2.292 in
- Torsional flexural constant (Beta): 0.951

**ASTM & Code Standards:**
- AISI North American Specification [NASPEC] S100-12
- Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, IGC-ES ESR-1166P and Intertek CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at itools.clarkdietrich.com

**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)