**Product Submittal Sheet**

**Technical Services**: 888-437-3244  
**Engineering Services**: 877-832-3206  
**Sales**: 800-543-7140  
**clarkdietrich.com**

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**Used in framing applications:**
- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses

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**Geometric Properties**

- **Web depth**: 3.786 in
- **Leg width**: 1.25 in
- **Design thickness**: 0.0451 in
- **Min. steel thickness**: 0.0428 in
- **Yield strength (Fy)**: 33 ksi  
  *Fy with Cold-Work, Fya*: 33.0 ksi
- **Ultimate, Fu**: 45.0 ksi

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

- **Cross sectional area (A)**: 0.276 in²
- **Member weight per foot of length**: 0.94 lb/ft
- **Moment of inertia (Ix)**: 0.571 in⁴
- **Section modulus (Sx)**: 0.302 in³
- **Radius of gyration (Rx)**: 1.439 in
- **Gross moment of inertia (Iy)**: 0.039 in⁴
- **Gross radius of gyration (Ry)**: 0.375 in

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**Effective Section Properties, Strong Axis**

- **Effective Area (Ae)**: 0.174 in²
- **Moment of inertia for deflection (Ix)**: 0.531 in⁴
- **Section modulus (Sx)**: 0.245 in³
- **Allowable bending moment (Ma)**: 4.84 in-k
- **Allowable shear force in web**: 1739 lb

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**Torsional Properties**

- **St. Venant torsion constant (J x 1000)**: 0.187 in⁴
- **Warping constant (Cw)**: 0.098 in⁶
- **Distance from shear center to neutral axis (Xo)**: -0.654 in
- **Distance between shear center and web centerline (m)**: 0.407 in
- **Radii of gyration (Ro)**: 1.625 in
- **Torsional flexural constant (Beta)**: 0.838

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**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**

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**Sustainability Credits:**
For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://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)

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**Project Information**

**Name:**

**Address:**

**Contractor Information**

**Name:**

**Contact:**

**Phone:**

**Fax:**

**Architect Information**

**Name:**

**Contact:**

**Phone:**

**Fax:**

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