**Product Submittal Sheet**

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

**Product Submittal Sheet**

**05.40.00 (Cold-Formed Metal Framing)**

- **Web depth:** 6.161 in  
- **Leg width:** 1.25 in  
- **Design thickness:** 0.0451 in  
- **Min. steel thickness:** 0.0428 in  
- **Yield strength, Fy:** 33 ksi  
- **Ultimate, Fu:** 45.0 ksi

**Geometric Properties**

- **Web depth:** 6.161 in  
- **Leg width:** 1.25 in  
- **Design thickness:** 0.0451 in  
- **Min. steel thickness:** 0.0428 in  
- **Yield strength, Fy:** 33 ksi  
- **Ultimate, Fu:** 45.0 ksi

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

- **Cross sectional area (A):** 0.383 in$^2$  
- **Member weight per foot of length:** 1.30 lb/ft  
- **Moment of inertia (Ix):** 1.862 in$^4$  
- **Section modulus (Sx):** 0.604 in$^3$  
- **Radius of gyration (Rx):** 2.205 in  
- **Gross moment of inertia (Iy):** 0.044 in$^4$  
- **Gross radius of gyration (Ry):** 0.337 in

**Effective Section Properties, Strong Axis**

- **Effective Area (Ae):** 0.181 in$^2$  
- **Moment of inertia for deflection (Ix):** 1.768 in$^4$  
- **Section modulus (Sx):** 0.461 in$^3$  
- **Allowable bending moment (Ma):** 9.11 in-k  
- **Allowable shear force in web:** 1377 lb

**Torsional Properties**

- **St. Venant torsion constant (J x 1000):** 0.260 in$^4$  
- **Warping constant (Cw):** 0.307 in$^6$  
- **Distance from shear center to neutral axis (Xo):** -0.513 in  
- **Distance between shear center and web centerline (m):** 0.335 in  
- **Radii of gyration (Ro):** 2.289 in  
- **Torsional flexural constant (Beta):** 0.950

**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).