05.40.00 (Cold-Formed Metal Framing)

**Geometric Properties**
- Web depth: 3.823 in
- Leg width: 1.25 in
- Design thickness: 0.0566 in
- Min. steel thickness: 0.0538 in
- Yield strength, $F_y$: 50 ksi
- Ultimate, $F_u$: 65.0 ksi
- *$F_y$ with Cold-Work, $F_{ya}$: 50.0 ksi

**Coating:** CP60 per ASTM C955
**Color coding:** Green

**Gross Section Properties of Full Section, Strong Axis**
- Cross sectional area ($A$): 0.346 in$^2$
- Member weight per foot of length: 1.18 lb/ft
- Moment of inertia ($I_x$): 0.723 in$^4$
- Section modulus ($S_x$): 0.378 in$^3$
- Radius of gyration ($R_x$): 1.445 in
- Gross moment of inertia ($I_y$): 0.048 in$^4$
- Gross radius of gyration ($R_y$): 0.373 in

**Effective Section Properties, Strong Axis**
- Effective Area ($A_e$): 0.225 in$^2$
- Moment of inertia for deflection ($I_x$): 0.678 in$^4$
- Section modulus ($S_x$): 0.312 in$^3$
- Allowable bending moment ($M_a$): 9.34 in-k
- Allowable shear force in web: 3372 lb

**Torsional Properties**
- St. Venant torsion constant ($J_x 1000$): 0.369 in$^4$
- Warping constant ($C_w$): 0.123 in$^6$
- Distance from shear center to neutral axis ($X_o$): -0.648 in
- Distance between shear center and web centerline ($m$): 0.404 in
- Radii of gyration ($R_o$): 1.627 in
- Torsional flexural constant ($\beta$): 0.841

**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](http://itools.clarkdietrich.com)

**Sustainability Credits:**
- 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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