Product Submittal Sheet

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

05.40.00 (Cold-Formed Metal Framing)

Geometric Properties
Web depth 3.625 in
Flange width 1.625 in
Punchout width 1.50 in
Stiffening lip 0.500 in
Punchout length 4.00 in
Design thickness 0.0566 in
Min. steel thickness 0.0538 in
Yield strength, Fy 50 ksi
Fy with Cold-Work, Fya 50.0 ksi
Ultimate, Fu 65.0 ksi

Gross Section Properties of Full Section, Strong Axis
Cross sectional area (A) 0.422 in²
Member weight per foot of length 1.44 lb/ft
Moment of inertia (Ix) 0.873 in⁴
Section modulus (Sx) 0.482 in³
Radius of gyration (Rx) 1.438 in
Gross moment of inertia (Ix) 0.154 in⁴
Gross radius of gyration (Ry) 0.605 in

Effective Section Properties, Strong Axis
Effective Area (Ae) 0.296 in²
Moment of inertia for deflection (Ix) 0.873 in⁴
Section modulus (Sx) 0.444 in³
Allowable bending moment (Ma) 13.28 in-k
Allowable moment based on distruption buckling (Mad) 12.94 in-k
Allowable shear force in web (solid section) 3372 lb
Allowable shear force in web (perforated section) 1016 lb
Unbraced length (Lu) 34.4 in

Torsional Properties
St. Venant torsion constant (J x 1000) 0.451 in⁴
Warping constant (Cw) 0.457 in⁶
Distance from shear center to neutral axis (Xo) -1.283 in
Distance between shear center and web centerline (m) 0.774 in
Radii of gyration (Ro) 2.020 in
Torsional flexural constant (Beta) 0.597

ASTM & Code Standards:
- AISI North American Specification [NASPEC] S100-16
- 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, ICC-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)

Project Information
Name: 
Address: 

Contractor Information
Name: 
Contact: 
Phone: 
Fax: 

Architect Information
Name: 
Contact: 
Phone: 
Fax: 

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