

Product Submittal Sheet

Technical Services: 888-437-3244 Engineering Services: 877-832-3206

Finish: CP60

Sales: 800-543-7140 clarkdietrich.com

TradeReady® Floor Joist

Product category 12" x 2" Flange 16ga TradeReady Joist Product name 1200TDW200-54 (50ksi) - Punched

Geometric Properties

Web depth:	12.000 in	Knock Out Shape:	Circlular	Design thickness:	0.0566 in
Flange width:	2.000 in	Knock Out Height:		Min. steel thickness:	0.0538 in
Stiffening lip:	0.625 in	Knock Out Width:		Yield stress, Fy:	50ksi
Suitering lip.	0.025 111			, ,	
		Small Hole Dia.:	1-11/32"	Ultimate, Fu:	65 ksi

Gross Section Properties of Full Section

Cross sectional area (A)	0.953 in(^2)
Member weight per foot of length	3.118 lbs/ft
Moment of inertia (lx)	17.680 in(^4)
Radius of gyration (Rx)	4.307 in
Gross moment of inertia (ly)	0.394 in(^4)
Gross radius of gyration (Ry)	0.643 in

Net Section Properties (at knockout)

Cross sectional area (A)	0.546 in(^2)
Moment of inertia (lx)	16.02 in(^4)
Radius of gyration (Rx)	5.417 in
Gross moment of inertia (ly)	0.283 in(^4)
Gross radius of gyration (Ry)	0.720 in

Allowable Capacities

Fully Braced Allowable Moment at Knockout (Ma-kno)	57,124 in-lbs
Fully Braced Allowable Moment at Full Section (Ma-full)	62,129 in-lbs
Allowable Shear at Knockout (Va-kno)	1,238 lbs
Allowable Shear at Full Section (Va-full)	1,378 lbs

Torsional Section Properties

Distance between centroid and shear-center (Xo)	-1.032 in
Distance between centroid and web-centerline (X)	0.351 in
St. Venant torsional constant (J*1000)	1.019 (in^4)
Torsional warping constant (Cw)	11.56 (in^6)
Radii of gyration (Ro)	4.475 in
Torsional flexural constant (Beta)	0.947

Effective Section Properties

Moment of Inertia (IX)	16.34 (in/4)
Section modulus (Sx)	2.075 (in^3)

ASTM & Code Standards:

- AISI North American Specification [NASPEC] 2004
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- SDS & Product Certification Information is available at www.clarkdietrich.com/SupportDocs
- U.S. Patent Nos. 6,301,854; 6,691,478; 6,418,694; 6,691,487; 6,761,005; 7,240,459
- Canadian Patent No. 2319346, Mexican Patent No. 243294

Sustainability Credits:

Address:

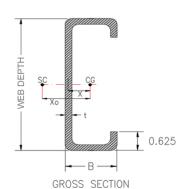
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

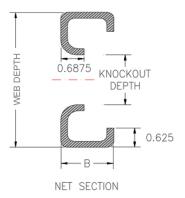
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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)

TradeReady® Floor Joist

05.40.00 (Cold-Formed Metal Framing)





Project Information	Contractor Information	Architect Information
Name:	Name:	Name:

Name: Name:
Contact: Contact:
Phone: Phone:
Fax: Fax:

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