

## **Product Submittal Sheet**

05.40.00 (Cold-Formed Metal Framing)

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

## TradeReady® Floor Joist

Product category14" x 2" Flange 12ga TradeReady JoistProduct name1400TDW200-97 (50ksi) - Punched	Finish: C	P60		
Geometric PropertiesWeb depth:14.000 inKnock Out Shape: CirclularFlange width:2.000 inKnock Out Height:10"Stiffening lip:0.625 inKnock Out Width:10"Small Hole Dia.:1-11/32"	Design thickness: Min. steel thickness: Yield stress, Fy: Ultimate, Fu:	0.1017 in 0.0966 in 50ksi 65 ksi		
Gross Section Properties of Full Section Cross sectional area (A) Member weight per foot of length Moment of inertia (Ix) Radius of gyration (Rx) Gross moment of inertia (Iy) Gross radius of gyration (Ry)	1.885 in(^2) 6.168 lbs/ft 45.100 in(^4) 4.891 in 0.662 in(^4) 0.592 in			
Net Section Properties (at knockout) Cross sectional area (A) Moment of inertia (Ix) Radius of gyration (Rx) Gross moment of inertia (Iy) Gross radius of gyration (Ry)	0.940 in(^2) 38.47 in(^4) 6.399 in 0.457 in(^4) 0.698 in		MEB DEPTH	<u>G</u>
Allowable Capacities Fully Braced Allowable Moment at Knockout (Ma-kno) Fully Braced Allowable Moment at Full Section (Ma-full) Allowable Shear at Knockout (Va-kno) Allowable Shear at Full Section (Va-full)	153,979 in-lbs 167,471 in-lbs 4,618 lbs 6,911 lbs			3
<b>Torsional Section Properties</b> Distance between centroid and shear-center (Xo) Distance between centroid and web-centerline (X) St. Venant torsional constant (J*1000) Torsional warping constant (Cw) Radii of gyration (Ro) Torsional flexural constant (Beta)	-0.906 in 0.296 in 6.498 (in^4) 27.15 (in^6) 5.009 in 0.967		MEB DEPTH	5_ KNOCKO
Effective Section Properties Moment of inertia (lx) Section modulus (Sx)	43.80 (in^4) 5.594 (in^3)		MEE	
ASTM & Code Standards: • AISI North American Specification [NASPEC] 2004 • Structural framing is produced to meet or exceed ASTM C955 • Short steel meets or exceed to meet or exceed ASTM C955	monto of ASTM A1002		- E NET SI	1

- 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:

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	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
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