

Product Submittal Sheet

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

TradeReady® Floor Joist

Product category 8" x 1-3/4" Flange 14ga TradeReady Joist

Product name 800TDJ175-68 (50ksi) - Punched Finish: CP60

Geometric Properties

Web depth:	8.000 in	Knock Out Shape:	Ellipse	Design thickness:	0.0713 in
Flange width:	1.750 in	Knock Out Height:	4-1/4"	Min. steel thickness:	0.0677 in
Stiffening lip:	0.625 in	Knock Out Width:	7"	Yield stress, Fy:	50ksi
		Small Hole Dia.:	1-11/32"	Ultimate. Fu:	65 ksi

Gross Section Properties of Full Section

Cross sectional area (A)	0.871 in(^2)
Member weight per foot of length	2.850 lbs/ft
Moment of inertia (lx)	7.579 in(^4)
Radius of gyration (Rx)	2.950 in
Gross moment of inertia (ly)	0.313 in(^4)
Gross radius of gyration (Ry)	0.600 in

Net Section Properties (at knockout)

Cross sectional area (A)	0.623 in(^2)
Moment of inertia (lx)	7.391 in(^4)
Radius of gyration (Rx)	3.444 in
Gross moment of inertia (ly)	0.242 in(^4)
Gross radius of gyration (Ry)	0.623 in

Allowable Capacities

Fully Braced Allowable Moment at Knockout (Ma-kno)	49,123 in-lbs
Fully Braced Allowable Moment at Full Section (Ma-full)	53,427 in-lbs
Allowable Shear at Knockout (Va-kno)	2,091 lbs
Allowable Shear at Full Section (Va-full)	4,221 lbs

Torsional Section Properties

-1.058 in
0.376 in
1.474 (in^4)
4.181 (in^6)
3.191 in
0.890

Effective Section Properties

Moment of inertia (lx)	7.556 (in^4)
Section modulus (Sx)	1.784 (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:

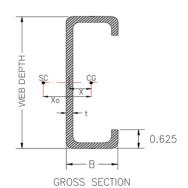
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

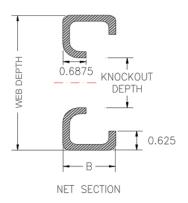
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:
		TradeReady Steel Joist © 05/2021 ClarkDietrich