

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 category 7-1/4" x 1-3/4" Flange 12ga TradeReady Product name 725TDJ175-97 (50ksi) - Punched		Joist Finish: CP60		st 🔷		
			1 111011			
	Geometric Properties					
	Web depth: 7.250 in	Knock Out Shape: Ellipse	Design thickness:	0.1017 in	ŏ	
	Flange width: 1.750 in	Knock Out Height: 4-1/4"	Min. steel thickness:	0.0966 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 Proper	ties of Full Section			Lade Readv [®] Floor Joist	
	Cross sectional area (A)		1.148 in(^2) 3.758 lbs/ft			
	Member weight per foot of	flength				
	Moment of inertia (Ix) Radius of gyration (Rx)		8.246 in(^4)			
			2.680 in			
	Gross moment of inertia (I	у)	0.406 in(^4)			
	Gross radius of gyration (F	₹ у)	0.595 in			
	Net Section Propertie	s (at knockout)				
	Cross sectional area (A)		0.787 in(^2)			
Moment of inertia (Ix)		7.951 in(^4)				
Radius of gyration (Rx)		3.178 in		Ë.		
Gross moment of inertia (ly)		0.292 in(^4)		SC CG		
	Gross radius of gyration (F		0.609 in			
Allowable Capacities				- - t		
Fully Braced Allowable Moment at Knockout (Ma-kno)		62,606 in-lbs		0.625		
Fully Braced Allowable Moment at Full Section (Ma-full)		68,091 in-lbs		0.625		
Allowable Shear at Knockout (Va-kno)		2,467 lbs		- B		
	Allowable Shear at Full Se	ection (Va-full)	10,885 lbs			
	Torsional Section Pro	nortios			GROSS SECTION	
	Distance between centroid		-1.077 in			
	Distance between centroid		0.386 in			
	St. Venant torsional const		3.957 (in^4)			
	Torsional warping constar		4.497 (in^6)			
	Radii of gyration (Ro)		2.949 in			
	Torsional flexural constant	t (Beta)	0.867		<u>0.6875</u> кноскоит	
Effective Section Properties						
	Moment of inertia (Ix)		8.244 (in^4)			
	Section modulus (Sx)		2.274 (in^3)		0.625	
	ASTM & Code Standards:					
	AISI North American Specification [NASPEC] 2004					
	a ,	duced to meet or exceed ASTM C95			NET SECTION	
	 Sheet steel meets or evo 	peeds mechanical and chemical requ	iroments of ASTM A1003	2		

- 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
- 0.5. Paterit Nos. 0,501,654, 0,091,476, 0,416,094, 0,091,467, 0,701,005, 7,240
- 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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