

Product Submittal Sheet

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 16ga TradeReady Joist

Product name 725TDJ175-54 (50ksi) - Punched Finish: CP60

Geometric Properties

Web depth:	7.250 in	Knock Out Shape:	Ellipse	Design thickness:	0.0566 in
Flange width:	1.750 in	Knock Out Height:	4-1/4"	Min. steel thickness:	0.0538 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)	0.656 in(^2)
Member weight per foot of length	2.146 lbs/ft
Moment of inertia (lx)	4.832 in(^4)
Radius of gyration (Rx)	2.715 in
Gross moment of inertia (ly)	0.252 in(^4)
Gross radius of gyration (Ry)	0.620 in

Net Section Properties (at knockout)

Cross sectional area (A)	0.461 in(^2)
Moment of inertia (lx)	4.691 in(^4)
Radius of gyration (Rx)	3.191 in
Gross moment of inertia (ly)	0.184 in(^4)
Gross radius of gyration (Ry)	0.632 in

Allowable Capacities

Fully Braced Allowable Moment at Knockout (Ma-kno)	33,717 in-lbs
Fully Braced Allowable Moment at Full Section (Ma-full)	36,672 in-lbs
Allowable Shear at Knockout (Va-kno)	1,390 lbs
Allowable Shear at Full Section (Va-full)	2,316 lbs

Torsional Section Properties

-1.125 in
0.408 in
0.701 (in^4)
2.759 (in^6)
3.003 in
0.860

Effective Section Properties

4.766 (In'4)
1.225 (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:

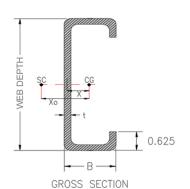
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

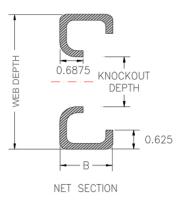
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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:

 Name:
 Name:
 Name:

 Address:
 Contact:
 Contact:

 Phone:
 Phone:

 Fax:
 Fax:

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