

Product Submittal Sheet

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

Product catego		S250 (2-1/2" Flange Structural Stud)		05.40.00 (Cold-Formed Metal Framing
Product name:	725	S250-97 (50ksi, CP60) P - I	Punched	, i i i i i i i i i i i i i i i i i i i
	97m	nils (12ga) Coatir	ng: CP60 per ASTM C955	
		Color codir		
			ig. Red	
Geometric Prop	erties			
Veb depth	7.250 in			
lange width	2.500 in	Punchout width	1.50 in	, m,
	0.625 in	Punchout length	4.00 in	
• •	0.1017 in	Min. steel thickness	0.0966 in	
0	50 ksi	Fy with Cold-Work, Fya		× • × •
0, 2	65.0 ksi	Fy with Cold-Work, Fya	50.2 KSI	
IIIIIale, Fu	00.0 KSI			
Fross Section P	roperties	of Full Section, Stron	g Axis	
Cross sectional area	a (A)		1.296 in ²	
lember weight per	foot of leng	Ith	4.41 lb/ft	
Ioment of inertia (I			10.132 in⁴	
Section modulus (Sx)			2.795 in ³	
Radius of gyration (2.796 in	
Bross moment of in			0.980 in⁴	
Fross radius of gyra			0.870 in	Used in framing applications:
				 Load-bearing walls
Effective Sectio	n Proper	ties, Strong Axis		•
Effective Area (Ae)		, 3	0.836 in ²	Curtain walls
Moment of inertia fo	or deflection	(Ix)	10.131 in ⁴	 Tall interior walls
Section modulus (Sx)			2.666 in^3	· Floor 9 colling isiste
Allowable bending moment (Ma)			89.67 in-k	 Floor & ceiling joists
Allowable moment based on distortion buckling (Mad)			83.40 in-k	Trusses
Allowable shear force in web (solid section)			10885 lb	
Allowable shear force in web (perforated section)			5195 lb	
Unbraced length (Lu)			46.7 in	
orsional Prope	erties			
St. Venant torsion constant (J x 1000) 4.468 in^4				4
Warping constant (Cw)			10.516 in ⁶	
Distance from shear center to neutral axis (Xo)			-1.675 in	
Distance between shear center and web centerline (m)			1.037 in	
Radii of gyration (Ro)			3.373 in	
orsional flexural co			0.753	
	Jistant (Dei	a)	0.755	1.5"
STM & Code	Standar	ds:		Structural
ASTM & Code Standards: • AISI North American Specification [NASPEC] S100-12				Punchout
* Effective properties				
Gross properties are		East market punchout spacing:		
Structural framing is		12" from lead end then 24" o.c.		
Sheet steel meets or		West market punchout spacing:		
ClarkDietrich's struct		· · · · ·		
Certification Program		24" from lead end then 24" o.c.		
		tion refer to ASTM C1007	diatrich com	
	meanon mior	mation is available at <u>itools.clarl</u>	<u>AulethCh.com</u>	
	.			
Sustainability Credit		contact Technical Services at 88	8-437-3244 or visit www.clarkdie	etrich.com/LEED
				(1 point) - Material Ingredients (1 point) - Construction and
emolition Waste Manage	ement (up to 2	points) - Innovation Credit (up to 2	points).	(1 point) - Material ingredients (1 point) - Construction and inge recycled content of 34 2% (19 8% post-consumer and

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:
	Fax:	Fax: