

Product Submittal Sheet

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

Product category:		S250 (2-1/2" Flange Structural Stud)				05.40.00 (Cold-Formed Metal Framing
Product name:		1200S250-97 (50ksi, CP60) P - Pur				Y
		97mils (1		-	CP60 per ASTM C955	
Geometric Pro	perties	1				
Web depth	12.000					
Flange width	2.500 ii	n l	Punchout	width	1.50 in	
Stiffening lip	0.625 ii	n l	Punchout	length	4.00 in	
Design thickness	0.1017		Min. steel		0.0966 in	
Yield strength, Fy Ultimate, Fu	50 ksi 65.0 ks		Fy with Co	old-Work, Fya	50.0 ksi	
Gross Section	Proper	ties of I	Full Sect	ion. Strong	Δχίς	
Gross Section Properties of Full Section, Strong Axis Cross sectional area (A) 1.779 in ²						(t)
Member weight per foot of length					6.05 lb/ft	
Moment of inertia (Ix)					34.027 in ⁴	Y <u>a</u>
Section modulus (Sx)					5.671 in ³	FLANGE WIDTH
Radius of gyration		Δ			4.373 in	
Gross moment of i Gross radius of gy					1.122 in⁴ 0.794 in	Used in framing applications:
Cross radius of gy	ration (ix	y)			0.754 11	Load-bearing walls
Effective Section	on Pror	perties.	Strong	Axis		•
Effective Area (Ae)		,			0.855 in ²	Curtain walls
Moment of inertia		ction (Ix)			33.837 in ⁴	 Tall interior walls
Section modulus (5.038 in ³	 Floor & ceiling joists
Allowable bending moment (Ma)				<i>(</i> - -)	150.83 in-k	• Trusses
Allowable moment based on distortion buckling (Mad)				g (Mad)	135.45 in-k	• Trusses
Allowable shear force in web (solid section) Allowable shear force in web (perforated section)					8147 lb 7411 lb	
Unbraced length (Lu)					47.5 in	
Torsional Prop					0.404.5.4	
St. Venant torsion constant (J x 1000) Warping constant (Cw)					6.134 in⁴ 32.734 in ⁶	4
Distance from shear center to neutral axis (Xo)					-1.329 in	6
					0.867 in	
Radii of gyration (Ro)					4.639 in	
Torsional flexural of	constant	(Beta)			0.918	1.5"
ASTM & Code Standards: • AISI North American Specification [NASPEC] S100-12						Structural Punchout
					d work of formina	
 * Effective properties incorporate the strength increase from the cold work of forming Gross properties are based on the cross section away from the punchouts 						East market punchout spacing:
Structural framing is produced to meet or exceed ASTM C955 Short steel meets or exceed and shoming requirements of ASTM A1003						12" from lead end then 24" o.c.
 Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003 ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance 						West market punchout spacing:
Certification Progra	m, ICC-E	S ESR-11	66P and In	ertek CCRR-020	•	24" from lead end then 24" o.c.
 For installation & storage information refer to ASTM C1007 SDS & Product Certification Information is available at itools.clarkdietrich.com 						
Sustainability Cred						
		ers contac	ct Technical	Services at 888-4	437-3244 or visit www.clarko	lietrich.com/LEED
LEED v4 MR Credit E	Building Pro	oduct Disclo	osure and Op	timization: EPD (1 p	oint) - Sourcing of Raw Materials	s (1 point) - Material Ingredients (1 point) - Construction and
Demolition Waste Mana LEED 2009 Credit MR						rage recycled content of 34.2% (19.8% post-consumer and
					contact us at (info@clarkdietric	

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: