

Product Submittal Sheet

Technical Services: 888-437-3244 Engineering Services: 877-832-3206

Sales: 800-543-7140 clarkdietrich.com

Product category: Product name:		S250 (2-1/	/2" Flange Structural	05.40.00 (Cold-Formed Metal Framing)			
		1600S250-97 (50ksi, CP60) P - Punched			hed	Y	
		97mils (12		ing: Cl	P60 per ASTM C955		
Geometric Prop	perties					σ	
Web depth	16.000 i	in				ži la ži	
Flange width	2.500 in	n Pu	unchout width	1.	50 in	J	
Stiffening lip	0.625 in	n Pu	unchout length	4.0	00 in		
Design thickness	0.1017 i		lin. steel thickness	-	0966 in		
Yield strength, Fy	50 ksi		y with Cold-Work, Fy	a 50).0 ksi		
Ultimate, Fu	65.0 ksi					Structural Stud	
Gross Section Properties of Full Section, Strong Axis							
Cross sectional area (A) 2.186 in ²						(t)	
Member weight per foot of length					44 lb/ft		
Moment of inertia (Ix)				69	.503 in⁴		
Section modulus (Sx)					688 in ³	FLANGE WIDTH	
Radius of gyration (Rx)					639 in		
Gross moment of in Gross radius of gyr					193 in⁴ 739 in	Used in framing applications:	
		· /		0.		 Load-bearing walls 	
Effective Section	on Prop	erties, S	Strong Axis			• Curtain walls	
Effective Area (Ae)				-	861 in ²		
Moment of inertia for		tion (Ix)			5.581 in⁴	 Tall interior walls 	
Section modulus (S		(Mo)			983 in³ 19.07 in-k	 Floor & ceiling joists 	
Allowable bending moment (Ma) Allowable moment based on distortion buckling (Mad)					/8.72 in-k	Trusses	
Allowable shear force in web (solid section)					043 lb		
Allowable shear force in web (perforated section)					43 lb		
Unbraced length (Lu) 45.9 in							
Torsional Properties							
St. Venant torsion constant (J x 1000)				7.	536 in⁴	4	
Warping constant (Cw)					8.082 in ⁶		
Distance from shear center to neutral axis (Xo)					.138 in		
Distance between shear center and web centerline (m)				-	762 in		
Radii of gyration (Ro) Torsional flexural constant (Beta)					800 in 962		
	onstant (Detaj		0	502	<u> </u>	
ASTM & Code	Stand	ards:				Structural	
AISI North American Specification [NASPEC] S100-12						Punchout	
 * 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						12" from lead end then 24" o.c.	
 Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003 						West market punchout spacing:	
 ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and Intertek CCRR-0206 						24" from lead end then 24" o.c.	
For installation & storage information refer to ASTM C1007							
SDS & Product Cert	tification Ir	nformation i	is available at itools.cla	rkdietric	<u>h.com</u>		
Sustainability Crad	ite						
Sustainability Credi For more details and		ers contact	Technical Services at 8	88-437-	3244 or visit www.clarkdi	etrich.com/LEED	
LEED v4 MR Credit B	Building Pro	duct Disclosu	ure and Optimization: EPD	(1 point)		(1 point) - Material Ingredients (1 point) - Construction and	
			 Innovation Credit (up to 2 h's steel products are 100% 		ble and have a national avera	ge 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: