

Product Submittal Sheet

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

Product catego	orv: S25	0 (2-1/2" Flange Structural	Stud)	05.40.00 (Cold-Formed Metal Framing)
Product name:		600S250-97 (50ksi, CP60) P - Punched		Y
		" (10)	ing: CP60 per ASTM C955	
Geometric Pro	nerties			
Web depth	6.000 in			
Flange width	2.500 in	Punchout width	1.50 in	
Stiffening lip	0.625 in	Punchout length	4.00 in	
Design thickness	0.1017 in	Min. steel thickness	0.0966 in	
rield strength, Fy	50 ksi	Fy with Cold-Work, Fy		≍ <mark>→</mark> ×o →
Jltimate, Fu	65.0 ksi	. ,		
	Durantia	of Full Continue Church		Structural Stud
	-	of Full Section, Stron	-	
Cross sectional are		th	1.169 in ²	
Member weight pe		th	3.98 lb/ft 6.498 in⁴	
Noment of inertia (Ix) Section modulus (Sx)			2.166 in ³	
Radius of gyration			2.358 in	WIDTH -
Gross moment of inertia (Iy)			0.923 in⁴	Used in framing applications:
Gross radius of gy	ration (Ry)		0.889 in	• Load-bearing walls
Effective Section Properties, Strong Axis				Curtain walls
Effective Area (Ae)			0.823 in ²	
Moment of inertia for deflection (Ix)			6.497 in ⁴	 Tall interior walls
Section modulus (2.063 in ³	 Floor & ceiling joists
Allowable bending			69.39 in-k 66.84 in-k	• Trusses
Allowable moment based on distortion buckling (Mad) Allowable shear force in web (solid section)			10472 lb	1103003
Allowable shear force in web (perforated section)			3806 lb	
Jnbraced length (I		,	47.3 in	
Torcional Bron	ortion			
Torsional Prop		1000	4 000 : 4	*
St. Venant torsion Warping constant		(1000)	4.030 in⁴ 6.947 in ⁶	4
Distance from shea		eutral axis (Xo)	-1.803 in	\$
		and web centerline (m)	1.100 in	
Radii of gyration (F	Ro)		3.099 in	
Torsional flexural o		a)	0.661	1.5"
ASTM & Code Standards:				Structural
		n [NASPEC] S100-12	Punchout	
		the strength increase from the	East market punchout spacing:	
		e cross section away from the	12" from lead end then 24" o.c.	
 Structural framing is produced to meet or exceed ASTM C955 Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003 				
 ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Complexity 				West market punchout spacing:
		R-1166P and Intertek CCRR-	24" from lead end then 24" o.c.	
		tion refer to ASTM C1007 mation is available at itools.cla	rkdietrich.com	
Sustainability Cred				
			88-437-3244 or visit www.clarkdie	
EED V4 WIR Credit 1	Duilaing Product	Disclosure and Optimization: EPD	(1 point) - Sourcing of Raw Materials (1	1 point) - Material Ingredients (1 point) - Construction and

(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:
	Fax:	Fax: