

Product Submittal Sheet

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

Product catego	orv:	S250 (2	-1/2" Fland	e Structural Stu	d)	05.40.0	0 (Cold-Formed Metal Frai	ninç
Product category: Product name:		S250 (2-1/2" Flange Structural Stud) 600S250-54 (50ksi, CP60) P - Punched				Y		
	I	54mils (•	-		. 1		
			(luga)		CP60 per ASTM C955)		
				Color coding:	Green			
eometric Pro	perties	5						
/eb depth	6.000	in						
lange width	2.500	in	Punchout	width	1.50 in			Ċ
tiffening lip	0.625	in	Punchout	length	4.00 in	WEB DEPTH	sc cg	
esign thickness	0.0566	3 in	Min. steel	thickness	0.0538 in	EB C	X	
ield strength, Fy	50 ksi		Fy with Co	ld-Work, Fya	50.0 ksi	5	1 × 0	
ltimate, Fu	65.0 k	si	-	-				
iross Section	Prope	ties of	Full Sect	ion, Strong	Axis			
Gross Section Properties of Full Section, Strong Cross sectional area (A)					0.670 in ²		(t)	C
lember weight pe		lenath			2.28 lb/ft			
oment of inertia		longui			3.820 in ⁴		Y E	
Section modulus (1.273 in ³			
Radius of gyration					2.389 in		WOTH	
Gross moment of inertia (Iy)				0.562 in⁴		, , , ,		
Gross radius of gyration (Ry)				0.917 in	Used in	framing applications:		
	_		<u>.</u>			 Load-l 	pearing walls	
ffective Secti		perties	s, Strong	Axis		 Curtai 	n walls	
ffective Area (Ae					0.342 in ²	• Toll in	terior walls	
Moment of inertia for deflection (Ix)					3.766 in ⁴	• raii in	terior walls	
Section modulus (Sx)					1.069 in ³	• Floor a	& ceiling joists	
Allowable bending moment (Ma)					32.00 in-k	• Trusse		
Allowable moment based on distortion buckling (Mad)				g (Mad)	28.72 in-k	• 110556	25	
Allowable shear force in web (solid section)				on)	2823 lb 1947 lb			
Allowable shear force in web (perforated section) Unbraced length (Lu)				on)	50.5 in			
	Lu)				50.5 III			
orcional Pron	ortios							
Torsional Properties					0 745 :=4		*	
St. Venant torsion constant (J x 1000)					0.715 in⁴ 4.194 in ⁶		4	
Warping constant (Cw) Distance from shear center to neutral axis (Xo)					-1.860 in		6	
Distance between shear center and web centerline (m)					1.129 in			
Radii of gyration (Ro)					3.163 in			
					0.654			
	Sonotan	(Bold)			0.001		1.5"	
ASTM & Code Standards:						Structural		
AISI North American Specification [NASPEC] S100-12							Punchout	
 * Effective properties incorporate the strength increase from the cold work of forming 						Fa	at market pupphout aposing	
Gross properties are based on the cross section away from the punchouts							st market punchout spacing " from lead end then 24" o.c	
Structural framing is produced to meet or exceed ASTM C955 Shoct ateal meets or exceeds mechanical and chamical requirements of ASTM A1002						12	from lead end then 24 0.0	•
 Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003 ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance 						We	st market punchout spacing	j:
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 Ce					etrich.com			
ustainability Cred	lits:							
or more details and	LEED let	ters conta	act Technical	Services at 888-4	37-3244 or visit www.clar	kdiatrich.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)

Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax: