

## **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 Stud) 350S250-33 (33ksi, CP60) P - Punched				05.40.00 (Cold-Formed Metal Framing)			
Product name:		33mils		-		55			
		connio	(2090)	Color coding:	CP60 per ASTM C98	55			
Geometric Pro	nortio	<b>c</b>		Color couling.	White				
Web depth	3.500							no	
Flange width	2.500		Punchout w	vidth	1.50 in		m	1 K	
Stiffening lip	0.625		Punchout le		4.00 in		HL SC CG		
• .	esign thickness 0.0346			hickness	0.0329 in			ไล	
Yield strength, Fy			d-Work, Fya	33.0 ksi		× × × ×	n		
Ultimate, Fu	si						rct		
Gross Section I	Prope	rties of	Full Secti	on, Strona /	Axis			Structural Stud	
Cross sectional area (A)					0.327 in <sup>2</sup>		(t)		
Member weight per foot of length					1.11 lb/ft				
Moment of inertia (Ix)					0.702 in <sup>4</sup>				
Section modulus (Sx)					0.401 in <sup>3</sup> 1.466 in		WIDTH		
Radius of gyration (Rx) Gross moment of inertia (Iy)					0.296 in <sup>4</sup>				
Gross radius of gyration (Ry)					0.951 in		Used in framing applicatio	ns:	
5,555,557,557,557,557,557,557,557,557,5		-,,					<ul> <li>Load-bearing walls</li> </ul>		
<b>Effective Section</b>	on Pro	perties	s, Strong A	Axis			• Curtain walls		
Effective Area (Ae)					0.199 in <sup>2</sup>				
Moment of inertia for deflection (Ix)					0.670 in <sup>4</sup>		<ul> <li>Tall interior walls</li> </ul>		
Section modulus (Sx) Allowable bending moment (Ma)					0.303 in³ 5.99 in-k		<ul> <li>Floor &amp; ceiling joists</li> </ul>		
Allowable moment based on distortion buckling (Mad)					6.35 in-k		Trusses		
Allowable shear for	rce in w	eb (solic	section)		1024 lb				
Allowable shear for		eb (perf	orated sectio	n)	487 lb				
Unbraced length (L This section does not mee ClarkDietrich Technical Se Torsional Prop	et the requ ervices @	888-437-32			64.3 in norease the thickness or conta	act			
			00)		0.130 in⁴		7		
St. Venant torsion constant (J x 1000) Warping constant (Cw)					0.904 in <sup>6</sup>		\$		
Distance from shear center to neutral axis (Xo)					-2.232 in		12, 12, 12, 12,		
Distance between shear center and web cente				rline (m)	1.291 in				
Radii of gyration (Ro) Torsional flexural constant (Beta)					2.834 in 0.380		1.5"		
		. ,			0.000		Structural		
ASTM & Code				10			Punchout		
<ul> <li>AISI North American Specification [NASPEC] S100-12</li> <li>* Effective properties incorporate the strength increase from the cold work of forming</li> </ul>							East market punchout spa 12" from lead end then 24	0	
Gross properties an     Structural framing in					chouts				
<ul> <li>Structural framing is</li> <li>Sheet steel meets of</li> <li>ClarkDietrich's structure</li> <li>Certification Progra</li> <li>For installation &amp; structure</li> <li>SDS &amp; Product Certification</li> </ul>	or excee ctural an m, ICC-I orage int	ds mecha d nonstru ES ESR-1 formation	nical and cher ctural framing 166P and Inte refer to ASTN	mical requiremen comply with the ertek CCRR-0206 1 C1007	SFIA Code Compliance		West market punchout sp 24" from lead end then 24		
Sustainability Cred		au		<u>Recolorantal</u>					
LEED v4 MR Credit E Demolition Waste Mana LEED 2009 Credit MR 2	Building P gement (u 2 & MR 4	roduct Disc up to 2 poir ClarkDie	closure and Optin hts) - Innovation etrich's steel proc	mization: EPD (1 p Credit (up to 2 poir ducts are 100% rec	nts).	erials (1 poin l average re	nt) - Material Ingredients (1 point) - Constru- cycled content of 34.2% (19.8% post-const		
Project Informati	ion		(	Contractor Info	ormation		Architect Information		
Name:				Name:			Name:		
Address:				Contact:			Contact:		
				hone:			Phone:		
			F	ax:		ſ	Fax:		