

## **Product Submittal Sheet**

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

Product catego	nrv: 🤇	5300 (3"	' Flance 9	Structural Stud)		05.40.00 (Cold-Formed Metal Framing	
Product name:		1000S300-97 (50ksi, CP60) P - Punched				Y	
		97mils (1	•				
		, , , , , , , , , , , , , , , , , , , ,	-ga)		CP60 per ASTM C955		
				Color coding	Red		
Geometric Pro	-						
Web depth	10.000 i						
Flange width	3.000 in		Punchout		1.50 in		
Stiffening lip	0.625 in		Punchout	0	4.00 in		
Design thickness	0.1017 i			thickness	0.0966 in		
Yield strength, Fy			Fy with C	old-Work, Fya	50.0 ksi		
Ultimate, Fu	65.0 ksi						
				_			
Gross Section I	-	ies of					
Cross sectional area (A)					1.677 in <sup>2</sup>		
Member weight per foot of length					5.71 lb/ft		
Moment of inertia (Ix)					24.325 in <sup>4</sup>		
Section modulus (Sx)4.865 in³Radius of gyration (Rx)3.808 in						WIDTH	
Gross moment of inertia (Iy) 1.703 in <sup>4</sup>							
					1.007 in	Used in framing applications:	
					<ul> <li>Load-bearing walls</li> </ul>		
Effective Section Properties, Strong Axis					• Curtain walls		
Effective Area (Ae)					0.896 in <sup>2</sup>		
Moment of inertia for deflection (Ix)					23.972 in <sup>4</sup>	<ul> <li>Tall interior walls</li> </ul>	
Section modulus (Sx)					4.499 in <sup>3</sup>	<ul> <li>Floor &amp; ceiling joists</li> </ul>	
Allowable bending moment (Ma)					134.70 in-k	• Trusses	
Allowable moment based on distortion buckling (Mad) Allowable shear force in web (solid section)				ng (iviad)	115.68 in-k 9864 lb	- 1103363	
Allowable shear force in web (perforated section)				tion)	7177 lb		
Unbraced length (Lu) 57.4 in							
0 (	,						
<b>Torsional Prop</b>	erties						
St. Venant torsion constant (J x 1000)					5.783 in⁴	<b>4</b>	
Warping constant (Cw)					33.570 in <sup>6</sup>		
Distance from shear center to neutral axis (Xo)					-1.838 in		
Distance between shear center and web centerline (m)					1.158 in		
Radii of gyration (F		Poto)			4.347 in 0.821		
Torsional flexural o	Unstant (	Dela)			0.021	1.5"	
ASTM & Code	Stand	arder				Structural	
ASTM & Code Standards: • AISI North American Specification [NASPEC] S100-12						Punchout	
* Effective properties incorporate the strength increase from the cold work of forming							
<ul> <li>Gross properties are based on the cross section away from the punchouts</li> </ul>					East market punchout spacing:		
<ul> <li>Structural framing is produced to meet or exceed ASTM C955</li> <li>Short steel meets or exceeds mechanical and shamical requirements of ASTM A1002</li> </ul>					12" from lead end then 24" o.c.		
<ul> <li>Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003</li> <li>ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance</li> </ul>					West market punchout spacing:		
Certification Program, ICC-ES ESR-1166P and Intertek CCRR-0206					24" from lead end then 24" o.c.		
<ul> <li>For installation &amp; storage information refer to ASTM C1007</li> <li>SDS &amp; Product Certification Information is available at itools.clarkdietrich.com</li> </ul>							
SDS & Product Cer	tification Ir	ntormatio	n is availal	ole at <u>itools.clarkd</u>	etrich.com		
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Sustainability Cred		ers contac	ct Technica	Services at 888-	437-3244 or visit www.clark	dietrich.com/LEED	
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.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)							
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Project InformationContractor InformationArchitect InformationName:Name:Name:Address:Contact:Contact:Phone:Phone:Phone:Fax:Fax:Fax: