

## **Product Submittal Sheet**

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

Sales: 800-543-7140 clarkdietrich.com

Product category	<b>V:</b> S300 (:	3" Flange Structural Stud)		05.40.00 (Cold-Formed Metal Framing)	
Product name:		1400S300-68 (50ksi, CP60) P - Punched		Y	
	68mils	(4.4.)	: CP60 per ASTM C955		
<b>Geometric Prope</b>	erties			σ	
Web depth 1	4.000 in			, i i i i i i i i i i i i i i i i i i i	
Flange width 3	3.000 in	Punchout width	1.50 in		
0 1	).625 in	Punchout length	4.00 in		
	).0713 in	Min. steel thickness	0.0677 in		
	50 ksi 55.0 ksi	Fy with Cold-Work, Fya	50.0 ksi	Structural Stud	
Gross Section Pr	operties of	f Full Section, Strong	Axis	Stru	
			1.477 in <sup>2</sup>		
Member weight per foot of length			5.03 lb/ft		
Moment of inertia (Ix)			39.213 in⁴		
Section modulus (Sx) Radius of gyration (R			5.602 in <sup>3</sup> 5.152 in	WIDTH	
Gross moment of ine			1.370 in <sup>4</sup>		
Gross radius of gyrat			0.963 in	Used in framing applications:	
07				<ul> <li>Load-bearing walls</li> </ul>	
Effective Section	Propertie	s, Strong Axis		• Curtain walls	
Effective Area (Ae)			0.503 in <sup>2</sup>		
Moment of inertia for		)	36.295 in <sup>4</sup>	<ul> <li>Tall interior walls</li> </ul>	
Section modulus (Sx)			3.655 in <sup>3</sup> 109.43 in-k	<ul> <li>Floor &amp; ceiling joists</li> </ul>	
Allowable bending moment (Ma) Allowable moment based on distortion buckling (Mad)			98.30 in-k	Trusses	
Allowable shear force in web (solid section)			2365 lb		
Allowable shear force in web (perforated section)			2365 lb		
Unbraced length (Lu)			56.5 in		
Torsional Properties					
St. Venant torsion constant (J x 1000)			2.503 in <sup>4</sup>	<b>4</b>	
Warping constant (Cw) Distance from shear center to neutral axis (Xo)			52.772 in <sup>6</sup>	*	
			-1.601 in 1.038 in	1.2° 1.2°	
Distance between shear center and web centerline (m) Radii of gyration (Ro)			5.480 in		
Torsional flexural con			0.915	1.5"	
ASTM & Code S	Standards	:		Structural	
AISI North American S		Punchout			
* Effective properties in		East market punchout spacing:			
<ul> <li>Gross properties are b</li> <li>Structural framing is placed</li> </ul>		12" from lead end then 24" o.c.			
<ul> <li>Sheet steel meets or e</li> </ul>	exceeds mecha	West market punchout spacing:			
		ctural framing comply with the 1166P and Intertek CCRR-020		24" from lead end then 24" o.c.	
<ul> <li>For installation &amp; stora</li> </ul>					
	0	ion is available at itools.clarko	lietrich.com		
Sustainability Credits					
-		act Technical Services at 888	-437-3244 or visit www.clarkdie	trich.com/LEED	
LEED v4 MR Credit Buil	Iding Product Dis	closure and Optimization: EPD (1	point) - Sourcing of Raw Materials (1	point) - Material Ingredients (1 point) - Construction and	
		nts) - Innovation Credit (up to 2 po etrich's steel products are 100% re		e recycled content of 34.2% (19.8% post-consumer and	
			e contact us at (info@clarkdietrich.co		

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: