

## **Product Submittal Sheet**

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

Sales: 800-543-7140 clarkdietrich.com

Product catego	ory: \$300	(3" Flange Structural Stud)		05.40.00 (Cold-Formed Metal Framing)			
Product name:		300-54 (50ksi, CP60) P - I	Punched	Y			
		(10)					
	•	e eeun	g: CP60 per ASTM C955				
		Color coding	g: Green				
Geometric Pro	perties			σ			
Web depth	10.000 in						
Flange width	3.000 in	Punchout width	1.50 in	vi i i i i i i i i i i i i i i i i i i			
Stiffening lip	0.625 in	Punchout length	4.00 in				
Design thickness	0.0566 in	Min. steel thickness	0.0538 in				
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	50.0 ksi				
Ultimate, Fu	65.0 ksi			Structural Stud			
				2			
Gross Section I	Properties o	of Full Section, Strong	Axis	St.			
Cross sectional are	ea (A)		0.953 in <sup>2</sup>				
Member weight pe			3.24 lb/ft				
Moment of inertia (			14.080 in <sup>4</sup>	Ý e			
Section modulus (S			2.816 in <sup>3</sup>	WIDTH			
Radius of gyration (Rx)			3.845 in				
Gross moment of inertia (ly) Gross radius of gyration (Ry)			1.024 in⁴ 1.037 in	Used in framing applications:			
Gross radius or gyr	Tallon (Ry)		1.037 111	Load-bearing walls			
Effective Section Properties, Strong Axis				Curtain walls			
Effective Area (Ae)			0.352 in <sup>2</sup>				
Moment of inertia f		x)	13.441 in <sup>4</sup>	<ul> <li>Tall interior walls</li> </ul>			
Section modulus (S			1.903 in <sup>3</sup>	<ul> <li>Floor &amp; ceiling joists</li> </ul>			
Allowable bending moment (Ma)			56.97 in-k 50.71 in-k	Trusses			
Allowable moment based on distortion buckling (Mad) Allowable shear force in web (solid section)			1661 lb	110000			
Allowable shear force in web (perforated section)			1661 lb	$\frown$			
Unbraced length (Lu)			58.0 in				
Torsional Properties							
St. Venant torsion constant (J x 1000)			1.017 in⁴	<b>*</b>			
Warping constant (Cw)			19.888 in <sup>6</sup>				
Distance from shear center to neutral axis (Xo)			-1.892 in				
Distance between shear center and web centerline (m)			1.185 in				
Radii of gyration (Ro) Torsional flexural constant (Beta)			4.409 in				
	constant (beta)		0.816	1.5"			
ASTM & Code		Structural					
AISI North America		Punchout					
		e strength increase from the co cross section away from the pu		East market punchout spacing:			
		eet or exceed ASTM C955		12" from lead end then 24" o.c.			
<ul> <li>Sheet steel meets of</li> </ul>		West market punchout spacing:					
ClarkDietrich's struct		24" from lead end then 24" o.c.					
Certification Progra     Eor installation & st							
<ul> <li>For installation &amp; storage information refer to ASTM C1007</li> <li>SDS &amp; Product Certification Information is available at <u>itools.clarkdietrich.com</u></li> </ul>							
Sustainability Credits: 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).							
				e recycled content of 34.2% (19.8% post-consumer and			
14.4% pre-consumer).	IT seeking a higher	number to meet Credit MR 5, pleas	se contact us at (info@clarkdietrich.co	om / 888-437-3244)			

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

