

## **Product Submittal Sheet**

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

Product category	r: S300 (	(3" Flange Structural Stud)		05.40.00 (Cold-Formed Metal Framing)
Product name:		00-54 (50ksi, CP60) P - P	unched	Y
		(10)	g: CP60 per ASTM C955	
		Color coding		
Coometrie Drope	rtion		g. Creen	
Geometric Prope				Structural Stud
	.625 in	Dura da sust avidata	1.50	J.
5	.000 in	Punchout width	1.50 in	μ μ
01	.625 in	Punchout length	4.00 in	
0	.0566 in	Min. steel thickness Fy with Cold-Work, Fya	0.0538 in	₩ <mark>- x₀</mark>
0,1	0 ksi 5.0 ksi	Fy with Cold-Work, Fya	50.0 ksi	till till till till till till till till
Olimale, Fu O	5.0 KSI			
Cross Section Dr	onortios o	f Eull Costion Strong	Axia	
	-	f Full Section, Strong		(t)
Cross sectional area			0.592 in <sup>2</sup> 2.01 lb/ft	
Member weight per foot of length Moment of inertia (Ix)			1.391 in <sup>4</sup>	
Section modulus (Sx)			0.767 in <sup>3</sup>	
Radius of gyration (R			1.533 in	WIDTH
Gross moment of iner	rtia (Iy)		0.734 in⁴	
Gross radius of gyrati	ion (Ry)		1.114 in	Used in framing applications:
				<ul> <li>Load-bearing walls</li> </ul>
<b>Effective Section</b>	Propertie	es, Strong Axis		Curtain walls
Effective Area (Ae)			0.336 in <sup>2</sup>	
Moment of inertia for		x)	1.295 in <sup>4</sup>	<ul> <li>Tall interior walls</li> </ul>
Section modulus (Sx)			0.529 in <sup>3</sup> 15.83 in-k	<ul> <li>Floor &amp; ceiling joists</li> </ul>
Allowable bending moment (Ma) Allowable moment based on distortion buckling (Mad)			17.35 in-k	Trusses
Allowable shear force in web (solid section)			3372 lb	
Allowable shear force in web (perforated section)			1016 lb	
Unbraced length (Lu)		,	60.2 in	
<b>Torsional Proper</b>				
St. Venant torsion constant (J x 1000)			0.632 in <sup>4</sup>	<b>ب</b>
Warping constant (Cw) Distance from shear center to neutral axis (Xo)			2.316 in <sup>6</sup>	
Distance between shear center and web centerline (m)			-2.659 in 1.522 in	
Radii of gyration (Ro)			3.265 in	
Torsional flexural con	stant (Beta)		0.337	4.57
	( ,			1.5"
ASTM & Code S	tandards	8		Structural
AISI North American Specification [NASPEC] S100-12			Punchout	
• * Effective properties incorporate the strength increase from the cold work of forming				East market punchout spacing:
Gross properties are b     Structural framing is pr		12" from lead end then 24" o.c.		
<ul> <li>Structural framing is produced to meet or exceed ASTM C955</li> <li>Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003</li> </ul>				
ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance				West market punchout spacing:
Certification Program, ICC-ES ESR-1166P and Intertek CCRR-0206 • For installation & storage information refer to ASTM C1007			24" from lead end then 24" o.c.	
<ul> <li>For installation &amp; stora</li> <li>SDS &amp; Product Certific</li> </ul>				
Sustainability Credits				
		tact Technical Services at 888	-437-3244 or visit www.clarkdie	etrich.com/LEED
				1 point) - Material Ingredients (1 point) - Construction and
		ints) - Innovation Credit (up to 2 po		a recycled content of 34.2% (10.8% past consumer and

**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: