

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 ² 2.01 lb/ft	
Member weight per foot of length Moment of inertia (Ix)			1.391 in ⁴	
Section modulus (Sx)			0.767 in ³	
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:
				 Load-bearing walls
Effective Section	Propertie	es, Strong Axis		Curtain walls
Effective Area (Ae)			0.336 in ²	
Moment of inertia for		x)	1.295 in ⁴	 Tall interior walls
Section modulus (Sx)			0.529 in ³ 15.83 in-k	 Floor & ceiling joists
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	
Torsional Proper				
St. Venant torsion constant (J x 1000)			0.632 in ⁴	ب
Warping constant (Cw) Distance from shear center to neutral axis (Xo)			2.316 in ⁶	
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.		
 Structural framing is produced to meet or exceed ASTM C955 Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003 				
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.	
 For installation & stora SDS & Product Certific 				
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: