

## **Product Submittal Sheet**

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

Product catego	orv: S137	(1-3/8" Flange Structural S	Stud)	05.40.00 (Cold-Formed Metal Framing)
Product name:				Y
i i oddee namei		(10)		
	5400	Couli	ig: CP60 per ASTM C955	
		Color codir	ig: Green	
<b>Geometric Pro</b>	perties			5
Web depth	2.500 in			ă de la companya de la compan
Flange width	1.375 in	Punchout width	0.75 in	Structural Stud
Stiffening lip	0.375 in	Punchout length	4.00 in	
Design thickness	0.0566 in	Min. steel thickness	0.0538 in	
Yield strength, Fy		Fy with Cold-Work, Fya		
	50 ksi	Fy with Cold-Work, Fya	56.2 ksi	
Ultimate, Fu	65.0 ksi			<u>ୁ</u>
				<b>_</b>
Gross Section	Properties (	of Full Section, Stron	g Axis	t de la constante de
	Cross sectional area (A)			
Member weight per foot of length			1.07 lb/ft	
	Moment of inertia (Ix)			
Section modulus (S			0.255 in <sup>3</sup>	FLANGE WIDTH
Radius of gyration			1.004 in	
Gross moment of i			0.080 in⁴	llood in framing applications
Gross radius of gy	ration (Ry)		0.504 in	Used in framing applications:
Effective Section	on Properti	es, Strong Axis		Load-bearing walls
Effective Area (Ae)		es, strong Axis	0.251 in <sup>2</sup>	<ul> <li>Curtain walls</li> </ul>
Moment of inertia f			0.318 in <sup>4</sup>	Tall interior walls
Section modulus (		ix)	0.244 in <sup>3</sup>	
Allowable bending moment (Ma)			8.22 in-k	<ul> <li>Floor &amp; ceiling joists</li> </ul>
Allowable moment based on distortion buckling (Mad)			8.34 in-k	Trusses
Allowable shear force in web (solid section)			2353 lb	
Allowable shear force in web (perforated section)			565 lb	
Unbraced length (Lu)			27.1 in	
0 (	,			
<b>Torsional Prop</b>	erties			
St. Venant torsion	constant (J x	1000)	0.337 in⁴	<b>4</b>
Warping constant (		,	0.115 in <sup>6</sup>	
Distance from shea	ar center to ne	utral axis (Xo)	-1.115 in	5
Distance between shear center and web centerline (m)			0.663 in	
Radii of gyration (F			1.583 in	
Torsional flexural of	constant (Beta	)	0.504	_0.75"
ASTM & Code				Structural
AISI North American Specification [NASPEC] S100-12				Punchout
		e strength increase from the o		East market punchout spacing:
<ul> <li>Gross properties are based on the cross section away from the punchouts</li> <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>				12" from lead end then 24" o.c.
ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance				West market punchout spacing:
Certification Progra		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>				
• SUS & Product Cer	nuncation inform	ation is available at itoois.clar	Caletrich.com	
Sustainability Cond				
Sustainability Cred For more details and		ntact Technical Services at 88	8-437-3244 or visit www.clarkdie	etrich.com/LEED
				(1 point) - Material Ingredients (1 point) - Construction and

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)

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