

## **Product Submittal Sheet**

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

Product categor Product name:			Structural Stu		
	00002	5U-43 (33KSI,	CP60) P - Pur	nched	
	43mils	(18ga)	Coating: Color coding:	CP60 per ASTM C955 Yellow	
Geometric Prop	erties				
Neb depth	6.000 in				
Flange width	2.500 in	Punchout w	vidth	1.50 in	<u>_</u>
Stiffening lip	0.625 in	Punchout le	ength	4.00 in	
Design thickness	0.0451 in	Min. steel tl	nickness	0.0428 in	
0	33 ksi 45.0 ksi	Fy with Col	d-Work, Fya	33.0 ksi	
Gross Section P	ronerties o	f Full Secti	on Strong	Avic	
Cross sectional area		i i un Secti	sh, strong /	0.537 in <sup>2</sup>	(t)
Member weight per foot of length				1.83 lb/ft	
Moment of inertia (Ix)				3.083 in <sup>4</sup>	Y L
Section modulus (S)				1.028 in <sup>3</sup>	
Radius of gyration (F	Ŕx)			2.396 in	
Gross moment of ine				0.458 in⁴	llood in froming applications.
Gross radius of gyration (Ry)				0.923 in	Used in framing applications: <ul> <li>Load-bearing walls</li> </ul>
Effective Sectio	n Propertie	s, Strong A	Axis		• Curtain walls
Effective Area (Ae)				0.298 in <sup>2</sup>	
Moment of inertia for deflection (Ix)				3.083 in⁴	<ul> <li>Tall interior walls</li> </ul>
Section modulus (Sx)				0.918 in <sup>3</sup>	<ul> <li>Floor &amp; ceiling joists</li> </ul>
Allowable bending moment (Ma)				18.14 in-k	• Trusses
Allowable moment based on distortion buckling (Mad)				16.21 in-k	• Trusses
Allowable shear force in web (solid section)				1416 lb 1240 lb	
Allowable shear force in web (perforated section) Unbraced length (Lu)				62.4 in	
Torsional Prope					
St. Venant torsion constant (J x 1000)				0.364 in <sup>4</sup>	<b>4</b>
Warping constant (Cw) Distance from shear center to neutral axis (Xo)				3.411 in <sup>6</sup>	
Distance between shear center and web centerline (m)				-1.874 in 1.136 in	
Radii of gyration (Ro)				3.179 in	
Torsional flexural co				0.652	1.5"
ASTM & Code Standards:					Structural
AISI North American Specification [NASPEC] S100-12     A Effective properties incorporate the strength increase from the cold work of forming					Punchout
<ul> <li>* Effective properties incorporate the strength increase from the cold work of forming</li> <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> </ul>					East market punchout spacing: 12" from lead end then 24" o.c.
<ul> <li>Sheet steel meets or exceeds mechanical and chemical requiremen</li> <li>ClarkDietrich's structural and nonstructural framing comply with the Certification Program, ICC-ES ESR-1166P and Intertek CCRR-0206</li> <li>For installation &amp; storage information refer to ASTM C1007</li> </ul>				SFIA Code Compliance	West market punchout spacing: 24" from lead end then 24" o.c.
SDS & Product Certif				etrich.com	

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: