

Product Submittal Sheet

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

Product name:		37-97 (50ksi, CP6	0) P - Pur	achod	Y
	97mils		• <i>,</i>	Icheu	
		s (12ga) Colo	Coating: or coding:	CP60 per ASTM C955 Red	
Geometric Prop	perties				
Neb depth	8.000 in				
-lange width	1.375 in	Punchout width		1.50 in	m _
Stiffening lip	0.375 in	Punchout length		4.00 in	
Design thickness	0.1017 in	Min. steel thickne	ess	0.0966 in	
/ield strength, Fy Jltimate, Fu	50 ksi 65.0 ksi	Fy with Cold-Wo	rk, Fya	50.0 ksi	
Gross Section I	Properties o	of Full Section,	Strong /	Axis	
Cross sectional are				1.093 in ²	(t)
Member weight per				3.72 lb/ft	
Moment of inertia (8.601 in ⁴	
Section modulus (S				2.150 in ³	
Radius of gyration				2.806 in	
Gross moment of inertia (ly)				0.170 in ⁴	Used in framing applications:
Gross radius of gyration (Ry)				0.394 in	
Effective Section Properties, Strong Axis					Load-bearing walls
Effective Area (Ae)				0.609 in ²	Curtain walls
Moment of inertia for deflection (Ix)				8.598 in ^₄	 Tall interior walls
Section modulus (Sx)				2.150 in ³	 Floor & ceiling joists
Allowable bending moment (Ma)				64.36 in-k	•••
Allowable moment based on distortion buckling (Mad)				63.95 in-k	• Trusses
Allowable shear force in web (solid section)				10885 lb	
Allowable shear force in web (perforated section) Unbraced length (Lu)				5938 lb 25.1 in	
	_u)			25.1 11	
Forsional Prop	erties				
St. Venant torsion constant (J x 1000)				3.767 in⁴	4
Warping constant (Cw)				2.349 in ⁶	
Distance from shear center to neutral axis (Xo)				-0.630 in	
Distance between shear center and web centerline (m)				0.423 in	
Radii of gyration (Ro) Torsional flexural constant (Beta)				2.902 in	
	onstant (Deta)			0.953	1.5"
ASTM & Code Standards:					Structural
 AISI North American Specification [NASPEC] S100-12 * Effective properties incorporate the strength increase from the cold work of forming 					Punchout
Gross properties are	e based on the o	East market punchout spacing: 12" from lead end then 24" o.c.			
Structural framing is Sheet steel meets c					
 Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003 ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and Intertek CCRR-0206 For installation & storage information refer to ASTM C1007 					West market punchout spacing: 24" from lead end then 24" o.c.
		ation is available at ito		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: