

Product Submittal Sheet

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

Product catego	ory: S250	(2-1/2" Flange Structural S	Stud)	05.40.00 (Cold-Formed Metal Framing
Product name:		250-43 (33ksi, CP60) P - I		Y
		(10)	ng: CP60 per ASTM C955	
Geometric Pro	perties			
/eb depth	8.000 in			
lange width	2.500 in	Punchout width	1.50 in	
Stiffening lip	0.625 in	Punchout length	4.00 in	sc cg
Design thickness	0.0451 in	Min. steel thickness	0.0428 in	
'ield strength, Fy Iltimate, Fu	33 ksi 45.0 ksi	Fy with Cold-Work, Fya	33.0 ksi	
	-	of Full Section, Stron	-	
Cross sectional are Member weight pe			0.627 in ² 2.13 lb/ft	
Moment of inertia (I	6.017 in^4	
Section modulus (S			1.504 in ³	FLANGE
Radius of gyration			3.097 in	WIDTH -
Gross moment of i			0.500 in⁴	lleed in framing any lighting.
Gross radius of gy	ration (Ry)		0.893 in	Used in framing applications:
- ffective Section	on Properti	es, Strong Axis		Load-bearing walls
Effective Area (Ae)			0.300 in ²	Curtain walls
Moment of inertia f		lx)	6.015 in ⁴	 Tall interior walls
Section modulus (Sx)			1.314 in ³	 Floor & ceiling joists
Allowable bending			25.96 in-k	
			22.07 in-k	• Trusses
Allowable shear force in web (solid section) Allowable shear force in web (perforated section)			1051 lb	
Unbraced length (L		norated section)	1051 lb 61.5 in	(
Torsional Prop	erties			
St. Venant torsion		1000)	0.425 in⁴	*
Warping constant (Cw)			6.374 in ⁶	
			-1.675 in	
		and web centerline (m)	1.043 in	
Radii of gyration (F Torsional flexural c)	3.632 in 0.787	1.5"
ASTM & Code				Structural
AISI North America				Punchout
 * Effective propertie 				
Gross properties ar Structural framing is	e based on the	East market punchout spacing: 12" from lead end then 24" o.c.		
 Sheet steel meets of ClarkDietrich's struct Certification Progra 	or exceeds mecl ctural and nonst im, ICC-ES ESR	nanical and chemical requiren ructural framing comply with t R-1166P and Intertek CCRR-0 on refer to ASTM C1007	he SFIA Code Compliance	West market punchout spacing: 24" from lead end then 24" o.c.
		ation is available at itools.clar	<u>kdietrich.com</u>	
Sustainability Cred For more details and		ntact Technical Services at 88	8-437-3244 or visit www.clarkdie	etrich.com/LEED

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: