

Product Submittal Sheet

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

Product category:		S250 (2-1/2" Flange Structural Stud)					05.40.00 (Cold-Formed Metal Framing)			
Product name:		725S250-33 (33ksi, CP60) P - Punched								
		33mils		Coating: Color coding:	CP60 per ASTM C9 White	955				
Geometric Pro	pertie	s		Ū					7	
Web depth	7.250								ň	
Flange width	2.500 in Puncho			łth	1.50 in			m	お	
Stiffening lip	0.625		Punchout length		4.00 in			cG		
Design thickness	0.0346 in				0.0329 in			• • ×	ื่อ	
Yield strength, Fy	33 ksi		Fy with Cold-		33.0 ksi		- ME	Xo	3	
Ultimate, Fu	45.0 k	si		, . ,					lct	
Gross Section I	Prope	rties of	f Full Sectio	n, Strong /	Axis				Structural Stud	
Cross sectional area (A) 0.457 in ²							(t)			
Member weight per foot of length					1.55 lb/ft		•			
Moment of inertia (Ix)					3.692 in⁴					
Section modulus (Sx) 1.018 in ³								FLANGE WIDTH		
Radius of gyration				2.843 in						
Gross moment of inertia (ly) Gross radius of gyration (Ry)					0.378 in⁴ 0.909 in		Used in fram	ing applications:		
					0.000 11		Load-bearir	ng walls		
Effective Section Properties, Strong Axis Effective Area (Ae) 0.204 in ²							Curtain walls			
Moment of inertia for deflection (Ix)					3.581 in⁴		 Tall interior walls 			
Section modulus (Sx)					0.779 in ³		 Floor & ceiling joists 			
					15.40 in-k					
Allowable moment based on distortion buckling (Mad) 13.75 in-k							 Trusses 			
Allowable shear force in web (solid section)525 lbAllowable shear force in web (perforated section)525 lb										
					62.0 in					
This section does not mee ClarkDietrich Technical Se Torsional Prop St. Venant torsion	et the requ ervices @ erties	888-437-32	244 for design solutio		0.182 in ⁴	tact		4		
	Warping constant (Cw)				4.008 in ⁶			<i>\$</i> 0		
Distance from shear center to neutral axis (X					-1.755 in			1.5. 2. 2.		
Distance between shear center and web center				ne (m)	1.081 in					
Radii of gyration (Ro)					3.462 in			1.5"		
Torsional flexural of Web-depth to thickness ra			o Stiffeners are requ	ired at all support	0.743 points and concentrated load	ls.		Structural		
								Punchout		
ASTM & Code Standards:							East mar	ket punchout spacing	:	
AISI North American Specification [NASPEC] S100-12								lead end then 24" o.c		
 * Effective properties incorporate the strength increase from the cold work of forming Gross properties are based on the cross section away from the number of the strength increase for the strength increase from the strength increase from							Most mor	kat pupahaut apaaina		
 Gross properties are based on the cross section away from the punchouts Structural framing is produced to meet or exceed ASTM C955 							West market punchout spacing: 24" from lead end then 24" o.c.			
Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003						24 110111	lead end then 24 0.0	•		
 ClarkDietrich's struct Certification Program 					SFIA Code Compliance	•				
 For installation & ste 										
sssin Bindyocfeer	tification	Informat	ion is available a	t itools.clarkdie	etrich.com					
					137-3244 or visit www.c					
Demolition Waste Mana						terials (1 poil	nt) - Material Ingredie	nts (1 point) - Construction	and	
LEED 2009 Credit MR 2	2 & MR 4	ClarkDie	etrich's steel produc	cts are 100% rec	yclable and have a nationa			2% (19.8% post-consumer a	and	
14.4% pre-consumer). 1	II Seeking	a nigher n	umber to meet Cre	oit wik 5, please	contact us at (info@clarkd	liethch.com/	000-437-3244)			
Project Informati	ion			Contractor Information			Architect Information			
Name:				Name:			Name:			
Address: Contact:								Contact:		
Phone: Fax:							Phone:			
			Fax	ι.		ł	Fax:			