

Product Submittal Sheet

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

Product catego	rv: S300 (;	3" Flange Structural Stud)		05.40.00 (Cold-Formed Metal Framing)
Product name:		00-43 (33ksi, CP60) P - P		Y
	43mils	(18ga) Coatin	g: CP60 per ASTM C955	
		Color codin	g: Yellow	
Geometric Prop				q
Web depth	4.000 in			tt ft
Flange width	3.000 in	Punchout width	1.50 in	
Stiffening lip	0.625 in	Punchout length	4.00 in	
Design thickness	0.0451 in	Min. steel thickness	0.0428 in	
Yield strength, Fy Ultimate, Fu	33 ksi 45.0 ksi	Fy with Cold-Work, Fya	33.0 ksi	ctu
Gross Section F	Properties of	f Full Section, Strong	g Axis	Structural Stud
Cross sectional area (A)			0.492 in ²	
Member weight per foot of length			1.67 lb/ft	
Moment of inertia (Ix)			1.400 in⁴	
Section modulus (Sx)			0.700 in ³	
Radius of gyration (Rx)			1.687 in	
Gross moment of inertia (Iy) Gross radius of gyration (Ry)			0.617 in⁴ 1.120 in	Used in framing applications:
Gloss facius of gyralion (Ky)			1.120 11	• Load-bearing walls
Effective Section	n Propertie	s, Strong Axis		• Curtain walls
Effective Area (Ae)	ar deflection (ly	λ	0.294 in² 1.355 in⁴	Tall interior walls
Moment of inertia for deflection (Ix) Section modulus (Sx)			0.513 in ³	
Allowable bending moment (Ma)			10.15 in-k	 Floor & ceiling joists
Allowable moment based on distortion buckling (Mad)			10.92 in-k	Trusses
Allowable shear force in web (solid section) Allowable shear force in web (perforated section)			1739 lb	
			810 lb	
Unbraced length (L This section does not mee ClarkDietrich Technical Se Torsional Prope	t the requirements of rvices @ 888-437-32	AISI North American Specifications 244 for design solutions.	73.9 in s. Increase the thickness or contact	* 4
St. Venant torsion of	constant (J x 10	000)	0.334 in⁴	
Warping constant (Cw)	-	2.282 in ⁶	
Distance from shear center to neutral axis (Xo)			-2.608 in	
Distance between shear center and web centerline (m)			1.503 in	
Radii of gyration (R			3.302 in	1.5"
Torsional flexural c	onstant (Beta)		0.376	Structural
ASTM & Code Standards:				Punchout
 AISI North American Specification [NASPEC] S100-12 * Effective properties incorporate the strength increase from the cold work of forming 			old work of forming	East market punchout spacing:
 Gross properties are based on the cross section away from the punchoi 			5	12" from lead end then 24" o.c.
Structural framing is produced to meet or exceed ASTM C955				West market punchout spacing:
 ClarkDietrich's struct Certification Program 	tural and nonstru	anical and chemical requirem ictural framing comply with th 1166P and Intertek CCRR-02 refer to ASTM C1007	ne SFIA Code Compliance	24" from lead end then 24" o.c.
	•	ion is available at itools.clark	dietrich.com	
	LEED letters cont		3-437-3244 or visit www.clarkdi	
	gement (up to 2 poi & MR 4 ClarkDie	nts) - Innovation Credit (up to 2 p etrich's steel products are 100%	ooints).	(1 point) - Material Ingredients (1 point) - Construction and age recycled content of 34.2% (19.8% post-consumer and .com / 888-437-3244)
LEED 2009 Credit MR 2				
LEED 2009 Credit MR 2 14.4% pre-consumer). It	 on	Contractor l	nformation	Architect Information
LEED 2009 Credit MR 2 14.4% pre-consumer). If Project Information	on	Contractor I	nformation	Architect Information
LEED 2009 Credit MR 2 14.4% pre-consumer). It	on	Contractor I Name: Contact:	nformation	Architect Information Name: Contact:
LEED 2009 Credit MR 2 14.4% pre-consumer). It Project Information Name:	on	Name:	nformation	Name: