

# **Product Submittal Sheet**

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

Product catego	ory: T250	(2-1/2" Leg St	05.40.00 (Cold-Formed	05.40.00 (Cold-Formed Me		
Product name:	-	· •	, CP60) - Unpu		Y	
	33mil	s (20ga)	Coating: Color coding:	CP60 per ASTM C955 White		-
Geometric Pro	perties					
Web depth	7.396 in					
Leg width	2.5 in				m	
Design thickness	0.0346 in	Min. steel t	hickness	0.0329 in		
Yield strength, Fy	33 ksi	*Fy with Co	old-Work, Fya	33.0 ksi		>
Ultimate, Fu	45.0 ksi				× - × × •	
Gross Section	Properties (	of Full Sect	ion, Strong /	Axis		
Cross sectional are	ea (A)			0.424 in <sup>2</sup>		
Member weight per foot of length				1.44 lb/ft	(t) <u> </u>	
Moment of inertia (Ix)				3.440 in⁴		-
Section modulus (Sx)				0.930 in <sup>3</sup>	Y	
Radius of gyration (Rx)				2.849 in		4
Gross moment of inertia (ly)				0.246 in <sup>4</sup>		
Gross radius of gyration (Ry)				0.761 in	Used in framing appl	ica
Effective Section	on Properti	es. Strong	Axis		<ul> <li>Load-bearing walls</li> </ul>	
Effective Section Properties, Strong Axis Effective Area (Ae)				0.116 in <sup>2</sup>	<ul> <li>Curtain walls</li> </ul>	
Moment of inertia for deflection (Ix)				2.675 in <sup>4</sup>	<ul> <li>Tall interior walls</li> </ul>	
Section modulus (Sx)				0.401 in <sup>3</sup>		_
Allowable bending moment (Ma)				7.92 in-k	<ul> <li>Floor &amp; ceiling joist</li> </ul>	S

Trusses

#### **Torsional Properties**

Allowable shear force in web

St. Venant torsion constant (J x 1000)	0.169 in <sup>4</sup>			
Warping constant (Cw)	2.381 in <sup>6</sup>			
Distance from shear center to neutral axis (Xo)	-1.334 in			
Distance between shear center and web centerline (m)	0.831 in			
Radii of gyration (Ro)	3.237 in			
Torsional flexural constant (Beta)	0.830			
Web-depth to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.				

This section does not meet the requirements of AISI North American Specifications. Increase the thickness or contact

### **ASTM & Code Standards:**

AISI North American Specification [NASPEC] S100-12

ClarkDietrich Technical Services @ 888-437-3244 for design solutions.

- \* Effective properties incorporate the strength increase from the cold work of forming
- · Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- 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
- SDS & Product Certification Information is available at itools.clarkdietrich.com

#### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

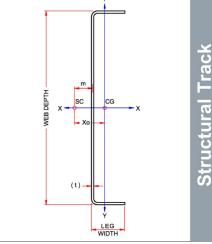
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

514 lb

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	<b>Contractor Information</b>	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:

## Metal Framing)



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