

## **Product Submittal Sheet**

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

Product category: Product name:		PRO300 (3" flange RedHeader PRO) As Header			05.40.00 (Cold-Formed Metal Framing)	
		400PRO300-43 (33ksi, CP60) - Unpunched		•		
		43mils (18ga	) Coating:	CP60 per ASTM C955		
Geometric P	ropertie	es				
Web depth			Design thickness 0.0451 in			
-lange width	3.000	) in Min.	steel thickness	0.0428 in		
Stiffening lip	g lip 1.000 in		d strength, Fy	33 ksi	Y A	
Gross Sectio	n Prope	rties of Full	Section, Stron	g Axis		
Cross sectional area (A)				0.526 in <sup>2</sup>		
Nember weight per foot of length				1.79 lb/ft		
Moment of inertia (Ix)				1.448 in <sup>4</sup>		
Section modulus (Sx)				0.724 in <sup>3</sup>	*	
Radius of gyration (Rx)				1.660 in		
Gross moment of inertia (Iy)				0.726 in <sup>4</sup>		
Gross section modulus (Sy)				0.414 in <sup>3</sup>		
Gross radius of gyration (Ry)				1.175 in	•	
Effective Section Properties, Strong Axis					<ul> <li>Replaces lay-in and boxed headers.</li> </ul>	
Moment of inertia for deflection (Ixe)				1.386 in <sup>4</sup>	<ul> <li>Reduces material pieces, weight &amp; screws.</li> </ul>	
Moment of inertia for deflection (lye*)				0.647 in <sup>4</sup>	<ul> <li>Insulation installs quicker.</li> </ul>	
Section modulus (Sxe)				0.592 in <sup>3</sup>		
Section modulus (Sye*)				0.365 in <sup>3</sup>	0.365 in <sup>3</sup>	
Allowable bending moment (Max - Local)				11.70 in-k		
Allowable bending moment (May - Local*)				7.21 in-k	Ordering Information:	
Allowable bending moment (Max - Distortional)				12.73 in-k	Header lengths should be ordered ½" shorter to fit ins	
Allowable bending moment (May - Distortional*)				7.27 in-k	HDSC Header Brackets.	
Allowable shear force in web (Vax)				1739 lb	(Header length = inside of jamb to inside of jamb - $\frac{1}{2}$ "	
<b>Forsional Pr</b>	onerties				HDSC Header Bracket profile data:	
St. Venant torsion constant (J x 1000)				0.356 in <sup>4</sup>	See HDSC Header Bracket submittal sheet for allowa	
Warping constant (Cw)				3.628 in <sup>6</sup>	clip loads. All headers require the attachment of the HDSC Clip at each end with headers installed leg up.	
Distance from shear center to neutral axis (Xo)			ris (Xn)	-2.900 in	The set of the second the with headers installed ley up.	
Radii of gyration (Ro)				3.542 in		
Torsional flexural constant (Beta)				0.330		
Section Property	y Notes					
	are for a pos		the return lips in compre	ssion.		
ASTM & Code St	andards:					
AISI \$100-12 and	S100-07 w/9	S2-10 supplements				

- AISI S100-12 and S100-07 w/S2-10 supplements
- · Effective properties incorporate the strength increase from cold work of forming
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- · SDS & Product Certification Information is available at www.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).

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 InformationContractor InformationArchitect InformationName:Name:Name:Address:Contact:Contact:Phone:Phone:Phone:Fax:Fax:Fax:

