

## **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)
		<b>400PRO300-97 (50ksi, CP60) - Unpunch</b> 97mils (12ga) Coating: CP60 per		CP60 per ASTM C955	Header
			Coaling.	CPOU per ASTM C955	
Geometric Pr	opertie	s			Ğ
Web depth	4.000 in		Design thickness 0.1017 in		
Flange width	3.000	3.000 in Min. steel thi			E C C C C C C C C C C C C C C C C C C C
Stiffening lip	1.000	) in Yield	l strength, Fy	50 ksi	
Gross Sectio	n Prope	rties of Full	Section, Stron	a Axis	
Cross sectional area (A) 1.144 in <sup>2</sup>					
Member weight per foot of length				3.89 lb/ft	
Moment of inertia (Ix)				3.037 in <sup>4</sup>	
Section modulus (Sx)				1.518 in <sup>3</sup>	RedHeader
Radius of gyration (Rx)				1.630 in	I
Gross moment of inertia (Iy)				1.497 in <sup>4</sup>	x †
Gross section modulus (Sy)				0.851 in <sup>3</sup>	
Gross radius of gyration (Ry)				1.144 in	u
Effective Section Properties, Strong Axis				<ul> <li>Replaces lay-in and boxed headers.</li> </ul>	
Moment of inertia for deflection (Ixe)				3.037 in <sup>4</sup>	<ul> <li>Reduces material pieces, weight &amp; screws.</li> </ul>
Moment of inertia for deflection (lye*)				1.480 in <sup>4</sup>	<ul> <li>Insulation installs quicker.</li> </ul>
Section modulus (Sxe)				1.504 in <sup>3</sup>	
Section modulus (Sye*)				0.852 in <sup>3</sup>	
Allowable bending moment (Max - Local)				49.69 in-k	
Allowable bending moment (May - Local*)				29.39 in-k	Ordering Information:
Allowable bending moment (Max - Distortional)				45.46 in-k	Header lengths should be ordered 1/2" shorter to fit insid
Allowable bending moment (May - Distortional*)			rtional*)	25.49 in-k	HDSC Header Brackets.
Allowable shear force in web (Vax)				6658 lb	(Header length = inside of jamb to inside of jamb - $\frac{1}{2}$ ")
Torsional Properties					HDSC Header Bracket profile data:
St. Venant torsion constant (J x 1000)				3.942 in <sup>4</sup>	See HDSC Header Bracket submittal sheet for allowable
Narping constant (Cw)				7.395 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)			is (Xo)	-2.830 in	HDSC Clip at each end with headers installed leg up.
Radii of gyration (Ro)				3.460 in	
Forsional flexural constant (Beta)				0.331	
Section Property	Notes				
	are for a pos		he return lips in compre	ssion.	

- · 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:

## CD-RHPRO-H © 06/01/16 ClarkDietrich