

# **Product Submittal Sheet**

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

roduct category:	•	0	PRO) As Header	
roduct name:	600PRO300-3 33mils (20ga)	3 (33ksi, CP60) ·	•	O <sup>™</sup> Header
	SSITIIIS (20ya)	Coating:	CP60 per ASTM C955	
eometric Propertie	es			e o
/eb depth 6.00		n thickness	0.0346 in	I
ange width 3.00	•	teel thickness	0.0329 in	1
tiffening lip 1.000	0 in Yield s	strength, Fy	33 ksi	2
ross Section Prope	erties of Full S	Section, Stron	g Axis	
Cross sectional area (A)			0.474 in <sup>2</sup>	
Member weight per foot of length			1.61 lb/ft	
Moment of inertia (Ix)			2.816 in <sup>4</sup>	RedHeader
Section modulus (Sx)			0.939 in <sup>3</sup>	Ŭ · Ŭ
Radius of gyration (Rx)			2.437 in	
Gross moment of inertia (ly)			0.652 in <sup>4</sup>	x †
Gross section modulus (Sy)			0.337 in <sup>3</sup>	ž
Gross radius of gyration (Ry)			1.173 in	
Effective Section Properties, Strong Axis			• Replaces lay-in and boxed headers.	
Moment of inertia for deflection (Ixe) 2.572 in <sup>4</sup>			<ul> <li>Reduces material pieces, weight &amp; screws.</li> </ul>	
Moment of inertia for deflection (lye*)			0.503 in <sup>4</sup>	<ul> <li>Insulation installs quicker.</li> </ul>
Section modulus (Sxe) Section modulus (Sye*)			0.653 in <sup>3</sup>	
			0.275 in <sup>3</sup>	
Allowable bending moment (Max - Local)			12.89 in-k	
Allowable bending moment (May - Local*)			5.43 in-k	Ordering Information:
Allowable bending moment (Max - Distortional)			13.92 in-k	Header lengths should be ordered ½" shorter to fit inside
Allowable bending moment (May - Distortional*)			5.01 in-k	HDSC Header Brackets. (Header length = inside of jamb to inside of jamb - $\frac{1}{2}$ ")
Allowable shear force in web (Vax)			638 lb	
Torsional Properties			HDSC Header Bracket profile data:	
St. Venant torsion constant (J x 1000)		0.189 in <sup>4</sup>	See HDSC Header Bracket submittal sheet for allowabl	
Narping constant (Cw)			5.749 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)			-2.598 in	
adii of gyration (Ro)		(//0)	3.750 in	
Forsional flexural constant (Beta)			0.520	
ection Property Notes	sitive moment with the			

### ASTM & Code Standards:

- 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 Information Contractor Information Name: Name: Address: Contact: Phone: Fax:

#### Architect Information Name: Contact: Phone: Fax: