

Product Submittal Sheet

Technical Services: 888-437-3244 Engineering Services: 877-832-3206

Sales: 800-543-7140 clarkdietrich.com

Product category:	PRO350 (3-1/2" flange RedHeader PRO) As Header		05.40.00 (Cold-Formed Metal Framing)
Product name:	•	ksi, CP60) - Unpunched	e
	54mils (16ga)	Coating: CP60 per ASTM C95	55
Geometric Propertie	25		Head
Neb depth 4.000		kness 0.0566 in	Ĩ
Flange width 3.500			
Stiffening lip 1.000) in Yield strengt	gth, Fy 50 ksi	× · ·
5 F 5 F			Y A
Gross Section Prope	erties of Full Section	on, Strong Axis	
Cross sectional area (A)		0.712 in ²	
Member weight per foot of length		2.42 lb/ft	
Moment of inertia (Ix)		2.013 in ⁴	
Section modulus (Sx)		1.006 in ³	ŭ
Radius of gyration (Rx)		1.681 in	RedHeade
Gross moment of inertia (ly)		1.286 in ⁴	× t
Gross section modulus (Sy)		0.635 in ³	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Gross radius of gyration (Ry)		1.344 in	
	evention Chuona A	a de la compañía de l	 Replaces lay-in and boxed headers.
Effective Section Pr			 Reduces material pieces, weight & screws.
Moment of inertia for deflection (Ixe)		1.882 in ⁴	
Moment of inertia for deflection (lye*)		1.186 in⁴ 0.785 in³	 Insulation installs quicker.
Section modulus (Sxe)		0.785 m ^a	
Section modulus (Sye*) Allowable bending mome	unt (Max - Local)	23.50 in-k	
		17.20 in-k	Ordering Information:
Allowable bending moment (May - Local*) Allowable bending moment (Max - Distortional)			Header lengths should be ordered ½" shorter to fit inside
Allowable bending moment (May - Distortional*)			

(Header length = inside of jamb to inside of jamb - $\frac{1}{2}$ ")

HDSC Header Bracket profile data:

See HDSC Header Bracket submittal sheet for allowable clip loads. All headers require the attachment of the HDSC Clip at each end with headers installed leg up.

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: Fax:

Architect Information Name: Contact: Phone:

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Moment of inertia for deflection (Ixe)	1.882 in ⁴
Moment of inertia for deflection (Iye*)	1.186 in ⁴
Section modulus (Sxe)	0.785 in ³
Section modulus (Sye*)	0.574 in ³
Allowable bending moment (Max - Local)	23.50 in-l
Allowable bending moment (May - Local*)	17.20 in-l
Allowable bending moment (Max - Distortional)	23.68 in-l
Allowable bending moment (May - Distortional*)	14.95 in-l
Allowable shear force in web (Vax)	3372 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	0.760 in ⁴
(/	
Warping constant (Cw)	6.333 in ⁶
Distance from shear center to neutral axis (Xo)	-3.375 in
Radii of gyration (Ro)	4.003 in
Torsional flexural constant (Beta)	0.289

Section Property Notes

* Iye, Sye, and May are for a positive moment with the return lips in compression. (Installing the header with the flanges pointing up)

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