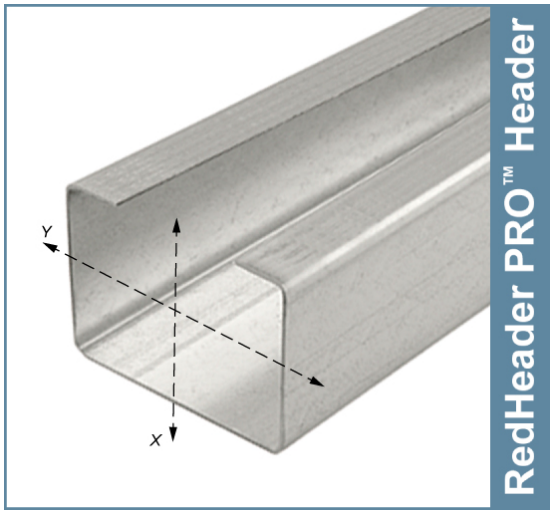
Product Submittal Sheet

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
Product name: **600PRO350-68 (50ksi, CP60) - Unpunched**
68mils (14ga) Coating: CP60 per ASTM C955

05.40.00 (Cold-Formed Metal Framing)



- **Replaces lay-in and boxed headers.**
- **Reduces material pieces, weight & screws.**
- **Insulation installs quicker.**

Geometric Properties

Web depth	6.000 in	Design thickness	0.0713 in
Flange width	3.500 in	Min. steel thickness	0.0677 in
Stiffening lip	1.000 in	Yield strength, Fy	50 ksi

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	1.032 in^2
Member weight per foot of length	3.51 lb/ft
Moment of inertia (Ix)	6.238 in^4
Section modulus (Sx)	2.079 in^3
Radius of gyration (Rx)	2.459 in
Gross moment of inertia (Iy)	1.841 in^4
Gross section modulus (Sy)	0.828 in^3
Gross radius of gyration (Ry)	1.336 in

Effective Section Properties, Strong Axis

Moment of inertia for deflection (Ixe)	6.167 in^4
Moment of inertia for deflection (Iye*)	1.794 in^4
Section modulus (Sxe)	1.771 in^3
Section modulus (Sye*)	0.805 in^3
Allowable bending moment (Max - Local)	53.02 in-k
Allowable bending moment (May - Local*)	24.11 in-k
Allowable bending moment (Max - Distortional)	49.71 in-k
Allowable bending moment (May - Distortional*)	19.79 in-k
Allowable shear force in web (Vax)	5350 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	1.748 in^4
Warping constant (Cw)	15.968 in^6
Distance from shear center to neutral axis (Xo)	-3.018 in
Radii of gyration (Ro)	4.116 in
Torsional flexural constant (Beta)	0.462

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

Ordering Information:

Header lengths should be ordered ½" shorter to fit inside HDSC Header Brackets.
(Header length = inside of jamb to inside of jamb - ½")

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	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax: