

**Product category:** PRO300 (3" flange RedHeader PRO) As Header  
**Product name:** 362PRO300-97 (50ksi, CP60) - Unpunched  
 97mils (12ga) Coating: CP60 per ASTM C955

### Geometric Properties

Web depth	3.625 in	Design thickness	0.1017 in
Flange width	3.000 in	Min. steel thickness	0.0966 in
Stiffening lip	1.000 in	Yield strength, Fy	50 ksi

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	1.105 in <sup>2</sup>
Member weight per foot of length	3.76 lb/ft
Moment of inertia (Ix)	2.420 in <sup>4</sup>
Section modulus (Sx)	1.335 in <sup>3</sup>
Radius of gyration (Rx)	1.480 in
Gross moment of inertia (Iy)	1.441 in <sup>4</sup>
Gross section modulus (Sy)	0.839 in <sup>3</sup>
Gross radius of gyration (Ry)	1.142 in

### Effective Section Properties, Strong Axis

Moment of inertia for deflection (Ixe)	2.421 in <sup>4</sup>
Moment of inertia for deflection (Iye*)	1.423 in <sup>4</sup>
Section modulus (Sxe)	1.324 in <sup>3</sup>
Section modulus (Sye*)	0.840 in <sup>3</sup>
Allowable bending moment (Max - Local)	43.74 in-k
Allowable bending moment (May - Local*)	28.96 in-k
Allowable bending moment (Max - Distortional)	39.98 in-k
Allowable bending moment (May - Distortional*)	25.13 in-k
Allowable shear force in web (Vax)	5943 lb

### Torsional Properties

St. Venant torsion constant (J x 1000)	3.811 in <sup>4</sup>
Warping constant (Cw)	6.329 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.897 in
Radii of gyration (Ro)	3.448 in
Torsional flexural constant (Beta)	0.294

### 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](http://www.clarkdietrich.com)

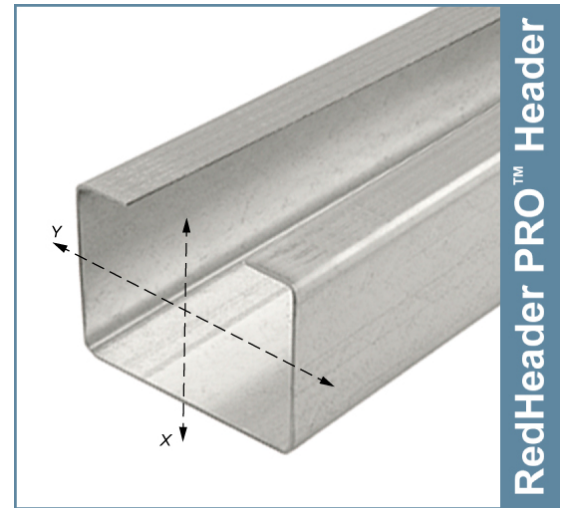
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://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](mailto:info@clarkdietrich.com) / 888-437-3244)

### 05.40.00 (Cold-Formed Metal Framing)



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

### 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.

### Project Information

Name:  
 Address:

### Contractor Information

Name:  
 Contact:  
 Phone:  
 Fax:

### Architect Information

Name:  
 Contact:  
 Phone:  
 Fax: