

**Product category:** PRO350 (3-1/2" flange RedHeader PRO) As Jamb  
**Product name:** 400PRO350-68 (50ksi, CP60) - Punched  
 68mils (14ga) Coating: CP60 per ASTM C955

### Geometric Properties

Web depth	4.000 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)	0.889 in <sup>2</sup>
Member weight per foot of length	3.03 lb/ft
Moment of inertia (Ix)	2.491 in <sup>4</sup>
Section modulus (Sx)	1.245 in <sup>3</sup>
Radius of gyration (Rx)	1.674 in
Gross moment of inertia (Iy)	1.586 in <sup>4</sup>
Gross section modulus (Sy)	0.783 in <sup>3</sup>
Gross radius of gyration (Ry)	1.336 in

### Effective Section Properties, Strong Axis

Moment of inertia for deflection (Ixe)	2.464 in <sup>4</sup>
Section modulus (Sxe)	1.007 in <sup>3</sup>
Allowable bending moment (Max - Local)	30.16 in-k
Allowable bending moment (Max - Distortional)	31.89 in-k
Allowable shear force in web (Vax)	1356 lb

### Torsional Properties

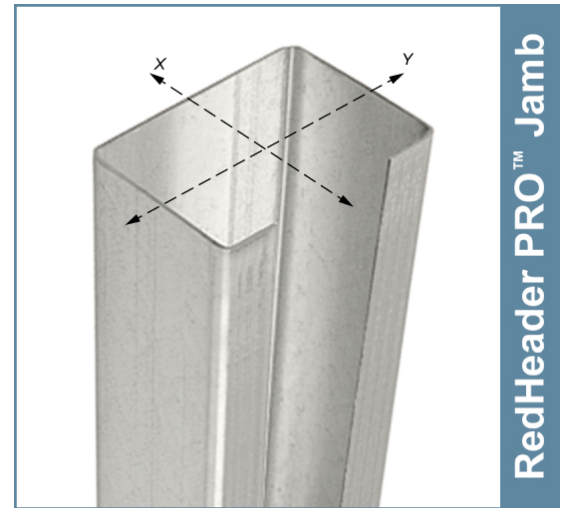
St. Venant torsion constant (J x 1000)	1.507 in <sup>4</sup>
Warping constant (Cw)	7.786 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-3.357 in
Radii of gyration (Ro)	3.982 in
Torsional flexural constant (Beta)	0.289

Unbraced length (Lu) 77.8 in

### 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)

### 05.40.00 (Cold-Formed Metal Framing)



RedHeader PRO™ Jamb

- Eliminates and/or minimizes built-up jambs.
- Reduces material pieces, weight & screws.
- Opened jamb does not require pre-insulating.



### 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)

Project Information	Contractor Information	Architect Information
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