**Product Submittal Sheet**

**Product category:** PRO300 (3” flange RedHeader PRO) As Header

**Product name:** 362PRO300-54 (50ksi, CP60) - Unpunched 54mils (16ga) Coating: CP60 per ASTM C955

**Geometric Properties**

- **Web depth:** 3.625 in
- **Design thickness:** 0.0566 in
- **Flange width:** 3.000 in
- **Min. steel thickness:** 0.0538 in
- **Stiffening lip:** 1.000 in
- **Yield strength, Fy:** 50 ksi

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

- **Cross sectional area (A):** 0.634 in²
- **Member weight per foot of length:** 2.16 lb/ft
- **Moment of inertia (Ix):** 1.433 in⁴
- **Section modulus (Sx):** 0.791 in³
- **Radius of gyration (Rx):** 1.503 in
- **Gross moment of inertia (Iy):** 0.863 in⁴
- **Gross section modulus (Sy):** 0.504 in³
- **Gross radius of gyration (Ry):** 1.166 in

**Effective Section Properties, Strong Axis**

- **Moment of inertia for deflection (Ixe):** 1.380 in⁴
- **Moment of inertia for deflection (Iye):** 0.791 in³
- **Section modulus (Sxe):** 0.656 in³
- **Section modulus (Sye):** 0.451 in³
- **Allowable bending moment (Max - Local):** 19.64 in-k
- **Allowable bending moment (May - Local*):** 13.51 in-k
- **Allowable bending moment (Max - Distortional):** 20.20 in-k
- **Allowable bending moment (May - Distortional*):** 12.86 in-k
- **Allowable shear force in web (Vax):** 3372 lb

**Torsional Properties**

- **St. Venant torsion constant (J x 1000):** 0.677 in⁴
- **Warping constant (Cw):** 3.829 in⁶
- **Distance from shear center to neutral axis (Xo):** -2.953 in
- **Radii of gyration (Ro):** 3.513 in
- **Torsional flexural constant (Beta):** 0.293

**Section Property Notes**

* Ixe, 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**

**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**

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**Contractor Information**

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**Architect Information**

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CD-RHPRO-H © 06/01/16 ClarkDietrich Building Systems
05.40.00 (Cold-Formed Metal Framing)

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

### Product Submittal Sheet

**Product category:** PRO300 (3” flange RedHeader PRO) As Jamb
**Product name:** 362PRO300-54 (50ksi, CP60) - Punched
54mils (16ga)  
Coating: CP60 per ASTM C955

#### Geometric Properties
- Web depth: 3.625 in  
- Design thickness: 0.0566 in  
- Flange width: 3.000 in  
- Min. steel thickness: 0.0538 in  
- Stiffening lip: 1.000 in  
- Yield strength, Fy: 50 ksi

#### Gross Section Properties of Full Section, Strong Axis
- Cross sectional area (A): 0.634 in²  
- Member weight per foot of length: 2.16 lb/ft  
- Moment of inertia (Ix): 1.433 in⁴  
- Section modulus (Sx): 0.791 in³  
- Radius of gyration (Rx): 1.503 in  
- Gross moment of inertia (Iy): 0.863 in⁴  
- Gross section modulus (Sy): 0.504 in³  
- Gross radius of gyration (Ry): 1.166 in

#### Effective Section Properties, Strong Axis
- Moment of inertia for deflection (Ixₑ): 1.380 in⁴  
- Section modulus (Sxₑ): 0.624 in³  
- Allowable bending moment (Max - Local): 18.68 in-k  
- Allowable bending moment (Max - Distortional): 20.20 in-k  
- Allowable shear force in web (Vax): 1016 lb

#### Torsional Properties
- St. Venant torsion constant (J x 1000): 0.677 in³  
- Warping constant (Cw): 3.829 in⁶  
- Distance from shear center to neutral axis (Xo): -2.953 in  
- Radii of gyration (Ro): 3.513 in  
- Torsional flexural constant (Beta): 0.293

- Unbraced length (Lu): 70.0 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

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