Product Submittal Sheet

Product category: PRO300 (3" flange RedHeader PRO) As Header
Product name: 600PRO300-54 (50ksi, CP60) - Unpunched
54mils (16ga) Coating: CP60 per ASTM C955

Geometric Properties
- Web depth: 6.000 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): 0.769 in²
- Member weight per foot of length: 2.62 lb/ft
- Moment of inertia (Ix): 4.523 in⁴
- Section modulus (Sx): 1.508 in³
- Radius of gyration (Rx): 2.426 in
- Gross moment of inertia (Iy): 1.038 in⁴
- Gross section modulus (Sy): 0.537 in³
- Gross radius of gyration (Ry): 1.162 in

Effective Section Properties, Strong Axis
- Moment of inertia for deflection (Ix): 4.370 in⁴
- Moment of inertia for deflection (Iy): 0.953 in⁴
- Section modulus (Sx): 1.274 in³
- Section modulus (Sy): 0.482 in³
- Allowable bending moment (Max - Local): 38.13 in-k
- Allowable bending moment (Max - Local*): 14.43 in-k
- Allowable bending moment (Max - Distortional): 35.22 in-k
- Allowable bending moment (Max - Distortional*): 12.54 in-k
- Allowable shear force in web (Vax): 2823 lb

Torsional Properties
- St. Venant torsion constant (J x 1000): 0.821 in⁴
- Warping constant (Cw): 9.094 in⁶
- Distance from shear center to neutral axis (Xo): -2.572 in
- Radii of gyration (Ro): 3.722 in
- Torsional flexural constant (Beta): 0.522

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

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)

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.

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

-- Project Information
Name:
Address:

-- Contractor Information
Name:
Contact:
Phone:
Fax:

-- Architect Information
Name:
Contact:
Phone:
Fax:

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Product Submittal Sheet

**Product category:** PRO300 (3" flange RedHeader PRO) As Jamb

**Product name:** 600PRO300-54 (50ksi, CP60) - Punched

54mils (16ga)

Coating: CP60 per ASTM C955

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**Geometric Properties**

- **Web depth:** 6.000 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):** 0.769 in²
- **Member weight per foot of length:** 2.62 lb/ft
- **Moment of inertia (Ix):** 4.523 in⁴
- **Section modulus (Sx):** 1.508 in³
- **Radius of gyration (Rx):** 2.426 in
- **Gross moment of inertia (Iy):** 1.038 in⁴
- **Gross section modulus (Sy):** 0.537 in³
- **Gross radius of gyration (Ry):** 1.162 in

**Effective Section Properties, Strong Axis**

- **Moment of inertia for deflection (Ixe):** 4.370 in⁴
- **Section modulus (Sxe):** 1.274 in³
- **Allowable bending moment (Max - Local):** 38.13 in·lb
- **Allowable bending moment (Max - Distortional):** 35.22 in·lb
- **Allowable shear force in web (Vax):** 1947 lb

**Torsional Properties**

- **St. Venant torsion constant (J x 1000):** 0.821 in⁴
- **Warping constant (Cw):** 9.094 in⁶
- **Distance from shear center to neutral axis (Xo):** -2.572 in
- **Radius of gyration (Ro):** 3.722 in
- **Torsional flexural constant (Beta):** 0.522

- **Unbraced length (Lu):** 65.6 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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### Project Information

**Name:**

**Address:**

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### Contractor Information

**Name:**

**Contact:**

**Phone:**

**Fax:**

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### Architect Information

**Name:**

**Contact:**

**Phone:**

**Fax:**

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**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.