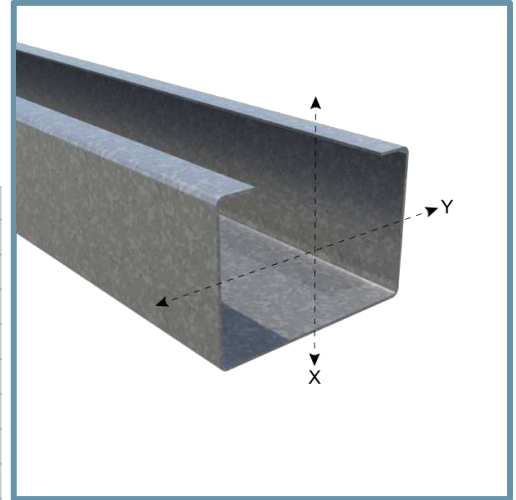


## Redheader Lite 362RHL250-33 (33ksi, CP60) - As Header

### 3-5/8" Header stud with 2-1/2" flange for interior openings - Unpunched

#### Geometric Properties

<b>Web depth:</b> 3.625 in	<b>Flange width:</b> 2.500 in	<b>Return lip:</b> 0.625 in
<b>Thickness:</b> 33mils (20ga)	<b>Design Thickness:</b> 0.0346 in	<b>Min. steel thickness:</b> 0.0329 in
<b>Yield strength, Fy:</b> 33ksi	<b>Coating:</b> CP60	



Gross Section Properties of Full Section, Strong Axis	
Cross sectional area (A)	0.331 in <sup>2</sup>
Member weight per foot of length	1.13 lb/ft
Moment of inertia (Ix)	0.760 in <sup>4</sup>
Section Modulus (Sx)	0.419in <sup>3</sup>
Radius of gyration (Rx)	1.514 in
Moment of inertia (Iy)	0.299 in <sup>4</sup>
Section modulus (Sy)	0.317 <sup>3</sup>
Gross radius of gyration (Ry)	0.951 in
Effective Section Properties	
Cross sectional area (Ae)	0.221 in <sup>2</sup>
Moment of Inertia about x-axis (Ixe)	0.725 in <sup>4</sup>
Moment of Inertia about y-axis (Iye)	0.299 in <sup>4</sup>
Section Modulus about x-axis (Sxe)	0.345 in <sup>3</sup>
Section Modulus about y-axis (Sye)	0.186 in <sup>3</sup>
Allowable local moment capacity about x-axis (Max-local)	6.82 (in-k)
Allowable local moment capacity about y-axis (May-local)	3.67 (in-k)
Allowable distortional moment capacity about x-axis (Max-dist)	6.59 (in-k)
Allowable distortional moment capacity about y-axis (May-dist)	3.02 (in-k)
Shear strength capacity of section about x-axis (Vax)	1024 lbs
Shear strength capacity of section about y-axis (Vay)	772 lbs
Torsional Properties	
St. Venant torsional constant (J x 1000)	0.132 in <sup>4</sup>
Warping constant (Cw)	0.965 in <sup>6</sup>
Distance from shear center to the centroid along the principal axis (Xo)	-2.211 in
Distance from shear center to web centerline (m)	1.284 in
Radii of gyration (Ro)	2.847 in
Torsional flexural constant (Beta)	0.395

- Section properties are based on using AIS S100-16/S2-20.
- Moment and Shear capacities about Y-axis listed in unperforated effective section can be used for perforated effective section properties.
- Axial load capacities are based on fully-brace condition.
- **Flange-Width to thickness ration exceeds 60.**

#### Code Approvals & Performance Standards

- [AISI S100-16 \(2020\) w/S2-20](#) North American Specification for the Design of Cold-Formed Steel Structural Members
- [AISI S240-20](#) North American Standard for Cold-Formed Steel Structural Framing
  - (Compliant to ASTM C955, but IBC replaced with AISI S200 in IBC 2015, AISI S240 in IBC 2018)
  - Section A3 Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
  - Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
  - Section C Installation - (Referencing ASTM C1007)
- [SDS For ASTM A1003 Steel Framing Products](#) For Interior Framing, Exterior Framing and Clips/Accessories

#### Features:

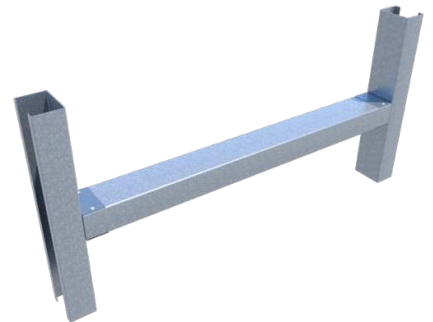
- Replaces lay-in and boxed headers.
- Reduces material pieces, weight & screws.
- Reduces installation time.

#### Header Brackets:

RedHeader Lite requires the use of the RHLC Header Bracket or EasyClip S-Series clip. Refer to [RedHeader Lite Technical Data](#) to determine the applicable clip for your condition. All headers brackets require the RedHeader Lite to be installed leg up.

#### Ordering information:

When using the RHLC clip, header lengths should be ordered 1/2" shorter to fit inside RHLC Header Brackets (Header length = inside of jamb to inside of jamb - 1/2").



## RedHeader Lite Jamb Stud 362RHL250-33 (33ksi, CP60) - As Jamb

### 3-5/8" Jamb stud with 2-1/2" for interior openings - Unpunched

#### Geometric Properties

<b>Web depth:</b> 3.625 in	<b>Flange width:</b> 2.500 in	<b>Return lip:</b> 0.625 in
<b>Thickness:</b> 33mils (20ga)	<b>Design Thickness:</b> 0.0346 in	<b>Min. steel thickness:</b> 0.0329 in
<b>Yield strength, F<sub>y</sub>:</b> 33ksi	<b>Coating:</b> CP60	

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

Cross sectional area (A)	0.331 in <sup>2</sup>
Member weight per foot of length	1.13 lb/ft
Moment of inertia (I <sub>x</sub> )	0.760 in <sup>4</sup>
Section Modulus (S <sub>x</sub> )	0.419 in <sup>3</sup>
Radius of gyration (R <sub>x</sub> )	1.514 in
Moment of inertia (I <sub>y</sub> )	0.299 in <sup>4</sup>
Section modulus (S <sub>y</sub> )	0.317 <sup>3</sup>
Gross radius of gyration (R <sub>y</sub> )	0.951 in

#### Effective Section Properties

Cross sectional area (A <sub>e</sub> )	0.200 in <sup>2</sup>
Moment of Inertia about x-axis (I <sub>xe</sub> )	0.725 in <sup>4</sup>
Section Modulus about x-axis (S <sub>xe</sub> )	0.315 in <sup>3</sup>
Allowable local moment capacity about x-axis (Max-local)	6.23 (in-k)
Allowable distortional moment capacity about x-axis (Max-dist)	6.39 (in-k)
Shear strength capacity of section about x-axis (V <sub>ax</sub> )	521 lbs
Shear strength capacity of section about y-axis (V <sub>ay</sub> )	lbs

#### Torsional Properties

St. Venant torsional constant (J x 1000)	0.132 in <sup>4</sup>
Warping constant (C <sub>w</sub> )	0.965 in <sup>6</sup>
Distance from shear center to web centerline (m)	1.284 in
Radii of gyration (R <sub>o</sub> )	2.847 in
Torsional flexural constant (Beta)	0.395
Maximum unbraced length (L <sub>u</sub> )	64.2 in

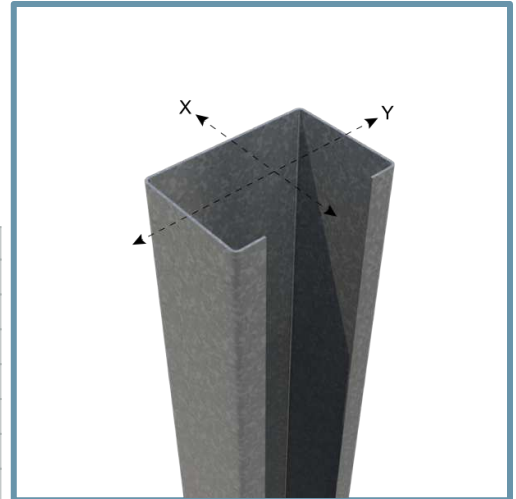
#### Axial Load

Allowable axial load for section	3.7 kips
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- Section properties are based on using AIS S100-16/S2-20.
- Effective section properties are based on a perforated profile.
- Moment and Shear capacities about Y-axis listed in unperforated effective section can be used for perforated effective section properties.
- Axial load capacities are based on fully-brace condition.
- **Flange-Width to thickness ratio exceeds 60.**

#### Code Approvals & Performance Standards

- [AISI S100-16 \(2020\) w/S2-20](#) North American Specification for the Design of Cold-Formed Steel Structural Members
- [AISI S240-20](#) North American Standard for Cold-Formed Steel Structural Framing
  - (Compliant to ASTM C955, but IBC replaced with AISI S200 in IBC 2015, AISI S240 in IBC 2018)
  - Section A3 Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
  - Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
  - Section C Installation - (Referencing ASTM C1007)
- [SDS For ASTM A1003 Steel Framing Products](#) For Interior Framing, Exterior Framing and Clips/Accessories



#### Features:

- Replaces built-up jambs.
- Reduces material pieces, weight & screws.
- Reduces installation time.

