

### 3-7/8" RHLC - 387RHLC250-33

The RHLC header clip is designed to work with the RedHeader Lite Framing systems.

This simple, yet innovative header bracket turns interior header installation from a two-person job into a one-person job. This unique, pre-punched clip also eliminates surface head fastener buildup that can create finishing challenges. It is available in a variety of sizes to meet different application requirements.

#### Product Data & Ordering Information:

<b>Material:</b>	33 ksi
<b>Coating:</b>	G90 (Z275) hot-dipped galvanized
<b>Thickness:</b>	33mils (20ga), 0.0346" Design thickness
<b>Depth (D):</b>	3-7/8"
<b>Packaging:</b>	Sold in pairs

#### Nominal, ASD, and LRFD Capacity Design Values

Framing Member	Framing Member		Jamb Fasteners	Header Fasteners	F1 Load (lbs)			F2 Load (lbs)		
	Thickness (in)	Yield Strength			Nom	ASD	LRFD	Nom	ASD	LRFD
400RHL250-33	0.0346	33 ksi	4 x #10	4 x #10	1090	560	895	1110	220	280
400RHL250-43	0.0451	33 ksi	4 x #10	4 x #10	1420	730	1165	1585	205	205

Table Notes:

- Listed Capacities were derived from calculations and structural tests in accordance with provisions of AISI S100 and ICC-ES AC261.
- The resistance factor/safety factor for design loads has been calculated according to Chapter K of AISI S100 dependent on Member or Connection Failure.
- #10-16 HWH Screws (0.19-in dia) were used to attach Brackets to Header and Jamb members through the provided holes. The screws shall have a minimum shear capacity of 1400 lbs and minimum tension capacity of 1158 lbs.
- It is the responsibility of the design professional to detail the project drawings for proper RHLC Brackets installation.
- For simultaneous F1 and F2 loading, use the following interaction equation:  $(f1/F1)^2 + (f2/F2)^2 < 1.0$ , where f1 and f2 are the applied loads and F1 and F2 are the appropriate allowable loads.

#### 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

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- LEED v4.1 MR Credit:** Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
- 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).

