



Development and Anchorage of Headed Rebar

for Concrete
and Masonry

HRC 555 Series

- **Substitute Standard Hooks**
For structural, practical or economical reasons. The **HRC 555** Series is your problem solver. Simplify rebar details, reduce congestion while improving concrete consolidation and lowering the in-place costs compared to conventional methods.
- **Building Code Compliant**
According to Section 12.6 of ACI 318-08 the **HRC 555** Series Headed Bars have the shortest required development length compared to standard hooks or straight bars. The use of **Headed Reinforcement** improves the form, fit and functional performance of reinforced concrete structures.

**HRC Performance with Quality
Local Fabrication**

Headed Reinforcement Corp.



(800) HRC-6775
(714) 557- 1455
www.hrc-usa.com



HRC 555 Series



Advantages

• Ultimate Capacity

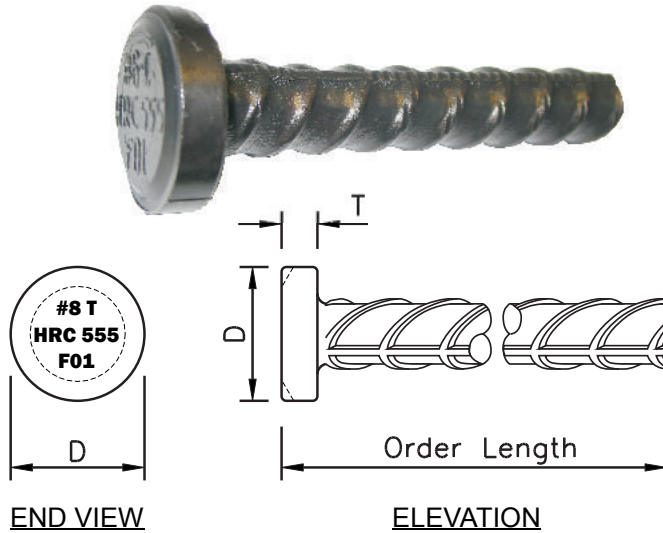
With point of maximum stress near the end of the bar, you can rely on the **HRC 555 Series** Headed Bars to achieve the Ultimate Capacity. The head-to-bar connection is designed to **exceed** the stress AND strain capacity of the reinforcing bar, unlike products with reduced cross-sectional properties.

• Reliable Fixed Head

As there is no field assembly, the fixed head will not be missing in action when needed.

• Optimized Head Size

With head thickness less than the bar diameter, detailing issues are prevented and the bearing area can easily be positioned where it is most effective (e.g. hooked around a crossing bar, engaging maximum member depth). Full size heads are still available and should be used for applications that require full anchorage at the head to transfer the load. For alternative **ICC-ES ESR-2935** installation parameters please visit www.hrc-usa.com or contact an HRC representative.



* Head thickness should be no larger than bar diameter.

HRC 555	Bar Size	#4	#5	#6	#7	#8	#9	#10	#11
A706 rebar properties	Diameter [in.]	0.500	0.625	0.750	0.875	1.000	1.128	1.270	1.410
	Area [sq.in.]	0.20	0.31	0.44	0.60	0.79	1.00	1.27	1.56
	Yield [lbs]	12,000	18,000	26,400	36,000	47,400	60,000	76,200	93,600
	Tensile [lbs]	16,000	24,000	35,200	48,000	63,200	80,000	101,600	124,800
	Elongation [%]	14	14	14	12	12	12	12	12
Head	T_{min} [in.]	0.25	0.31	0.38	0.44	0.50	0.56	0.64	0.70
	D [in.]	1.14	1.42	1.69	1.97	2.25	2.56	2.87	3.19
	A_{brg} [sq.in.]	0.82	1.27	1.80	2.45	3.18	4.14	5.20	6.43

ASTM A 706/A 706M Nominal Dimensions and Minimum Tensile Properties.

For development length and other installation parameters please see ACI 318-08 or other applicable codes. For current **ICC-ES ESR-2935** approval please visit www.hrc-usa.com or contact an HRC representative.



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Quality Control

HRC 555 Headed Bars are produced by HRC and licensed fabricators. To achieve consistent quality in different locations with numerous variables, approved fabricators perform periodic production testing and are routinely audited by HRC. This means that your project can get HRC performance from a local material supplier.

ASTM A 970 class A and B

