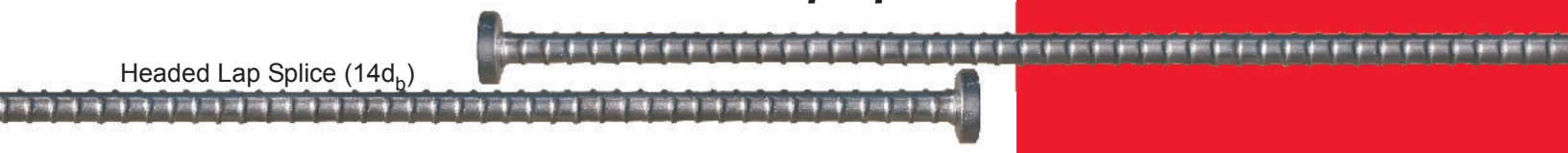
XTENDER®

HRC 555 Series
Headed Lap splice



Headed Lap Splice ($14d_b$)

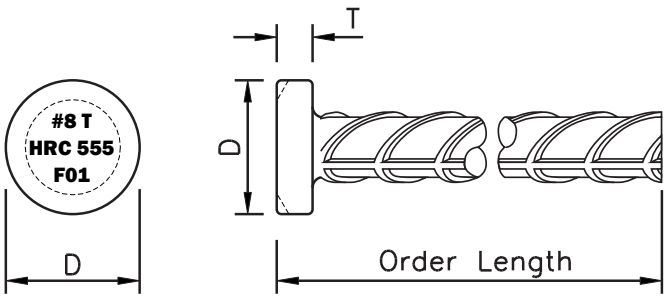
Advantages

- ***Short Lap Splice***
  Great for closure pours and other locations not permitting the length of conventional lap splices.

- ***Field Friendly***
  Alignment and length tolerances can easily be accommodated for both designer and contractor. Fixed heads eliminate any potential field sensitive installation concerns. Sufficient lap length is easily visually inspected.

- ***HRC Quality***
  The Ultimate performance of HRC 555 headed bars can be fabricated and tested locally.

- ***Economical***
  Cost effective fabrication and installation



END VIEW ELEVATION

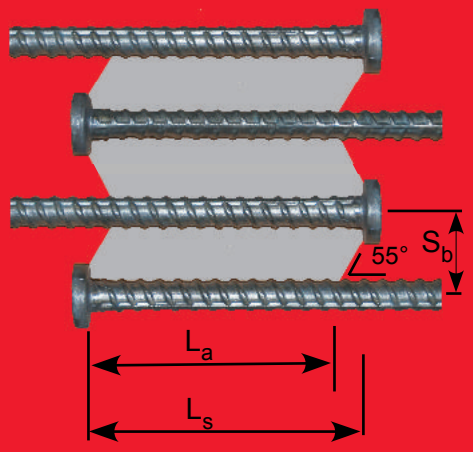
TABLE – HEADED LAP SPLICES

Bar size		#4	#5	#6	#7	#8	#9	#10	#11
Minimum Anchorage Length, L_a [in]		6.00	6.00	6.00	7.00	8.00	9.02	10.16	11.28
Center spacing, S_b=1.65 d_b [in]		0.83	1.03	1.24	1.44	1.65	1.86	2.10	2.33
Minimum Lap Length, L_s [in]		8.55	8.74	8.93	10.41	11.90	13.43	15.12	16.78
Comment:		Minimum spacing (edge of head touch spliced bar)							
Center spacing, S_b=2.65 d_b [in]		1.33	1.66	1.99	2.32	2.65	2.99	3.37	3.74
Minimum Lap Length, L_s [in]		9.01	9.31	9.61	11.21	12.81	14.45	16.27	18.07
Comment:		(Up to) 1.0db clear space between edge of head and spliced bar							
HRC 555 Head dimensions	*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

* Head thickness should be no larger than bar diameter.

For updates and installation parameters please see applicable codes or visit www.hrc-usa.com. For current **ICC-ES ESR-2935** approval contact an HRC representative

Design parameters per *ICC-ES ESR-2935*:



L_s = $1.3(L_a + S_b \tan 35°)$

S_b = Centerline spacing between lapped headed bars, inches.

L_a = The greater of $8d_b$ or 6in. minimum anchorage length.

HRC®

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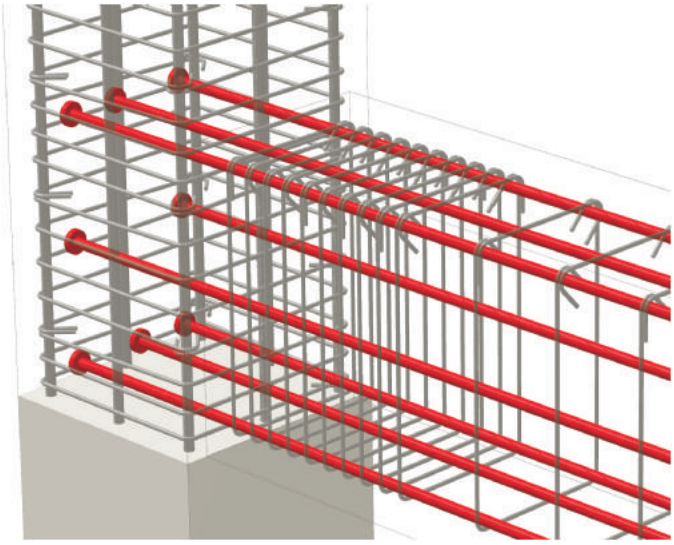
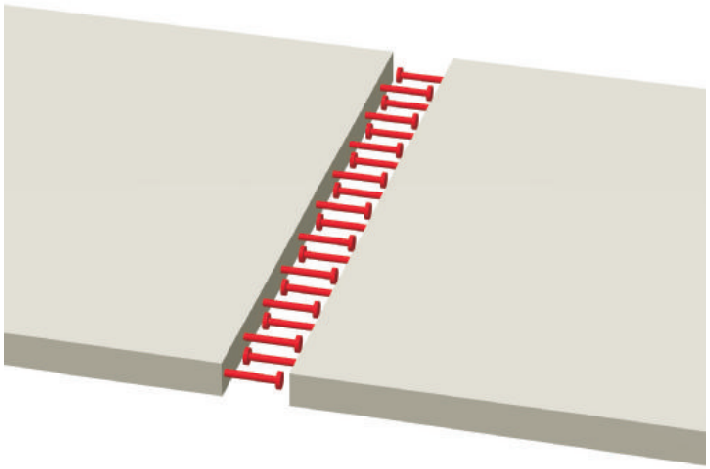
HRC 555 Series
Typical Applications



Beam-Column Connection



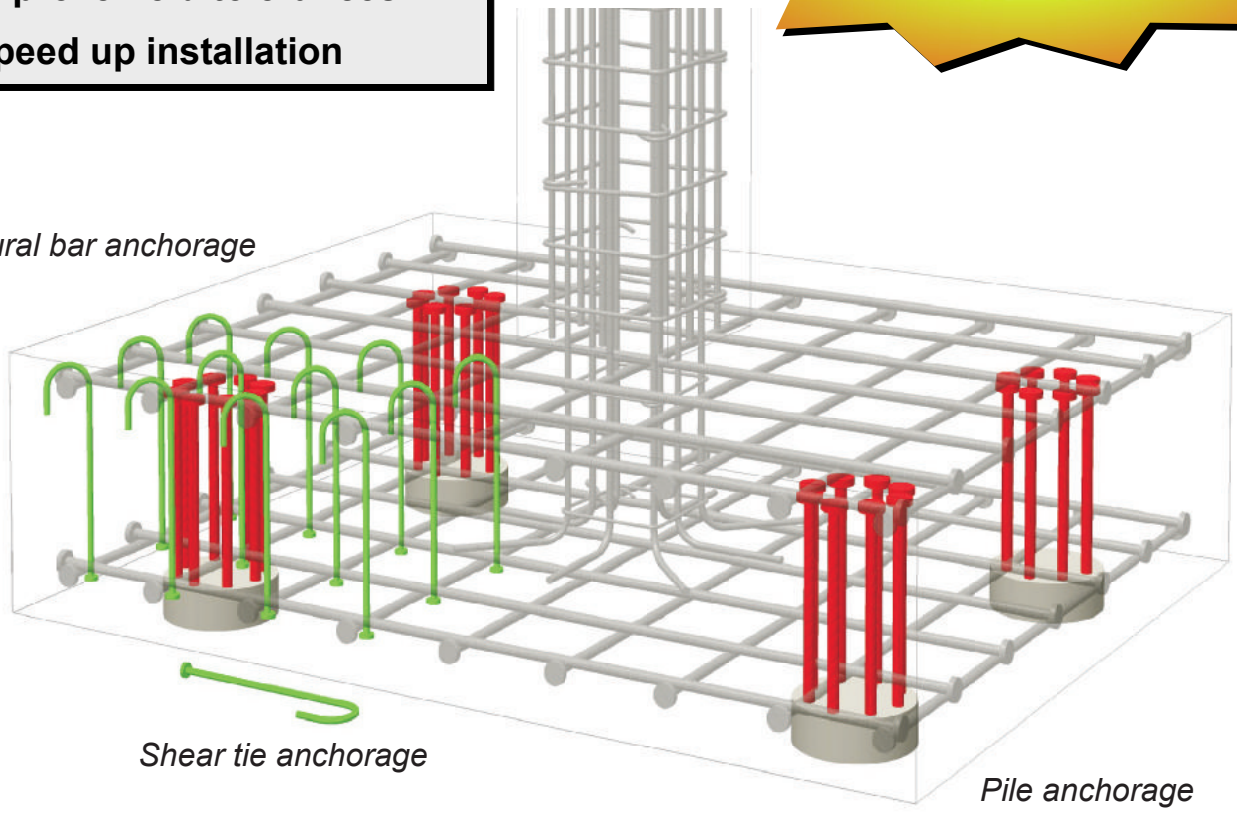
Closure Pour

BENEFITS

- **Simplify reinforcing details**
- **Reduce congestion**
- **Improve field tolerances**
- **Speed up installation**

THE ALTERNATIVE TO STANDARD HOOKS

Flexural bar anchorage



Shear tie anchorage

Pile anchorage

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