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MB MeadowBurke®

BT Couplers

Type 1 & Type 2HS Rebar Splicing System



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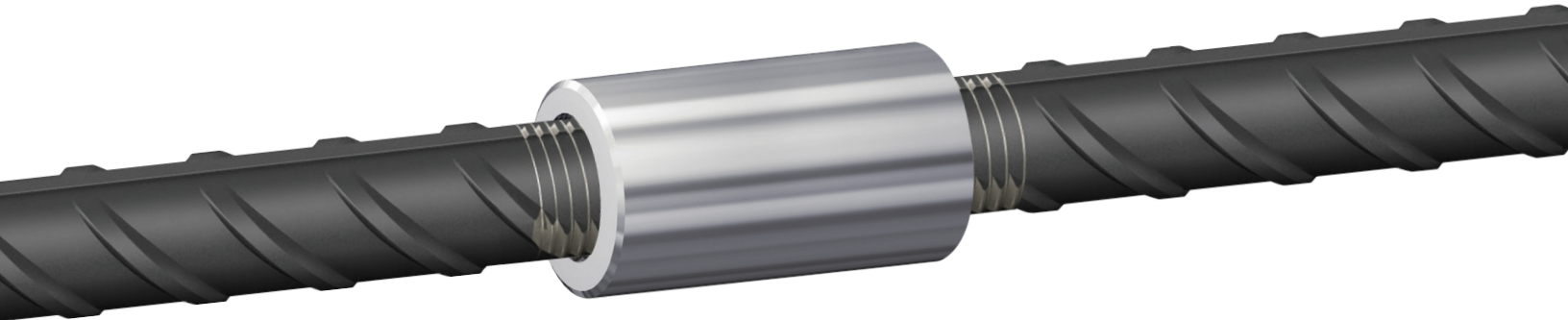
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BT Couplers

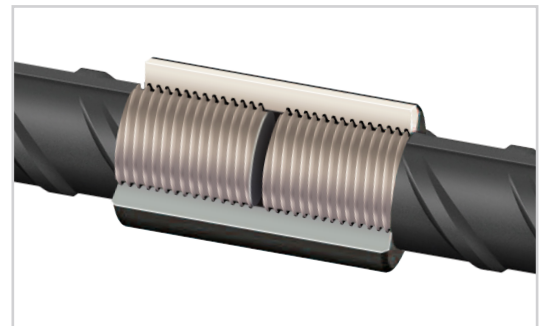
Type 1 & Type 2HS Rebar Splicing System



Meadow Burke BT Couplers are versatile and robust Type 1 & Type 2HS Splicing Systems used to mechanically connect rebar sections in segmental pours as an alternative to traditional dowel bars. The three-part system consists of a Splice Bar, Coupler and Setting Bar that meets the mechanical splice strength requirements of ACI-318-19 when used to splice grade 60 rebar.

Features

- Improved performance: Exceeds ACI-318-19 Type 1 & Type 2HS splice requirements and maintains reinforcing steel continuity independent of concrete cover.
- Saves time and money: Reduces costly form repairs by eliminating drilling of forms and simplifies form stripping.
- Available in standardized lengths (sizes #4 – #11) and configured to order.

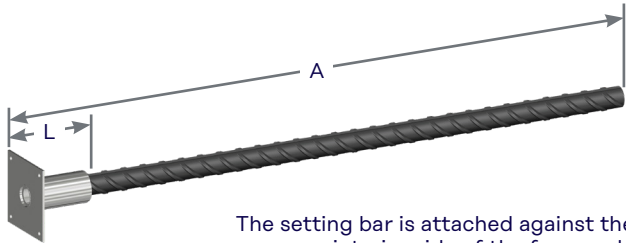


BT Couplers Splicing Performance				
Bar Size	Nominal Area (inch ²)	Grade 60 Rebar Yield Strength (lbs)	Type 1 125% Yield Strength (lbs)	Type 2HS 90 KSI Tensile Strength (lbs)*
#4	0.20	12,000	15,000	18,000
#5	0.31	18,600	23,250	27,900
#6	0.44	26,400	33,000	39,600
#7	0.60	36,000	45,000	54,000
#8	0.79	47,400	59,250	71,100
#9	1.00	60,000	75,000	90,000
#10	1.27	76,200	95,250	114,300
#11	1.56	93,600	117,000	140,400

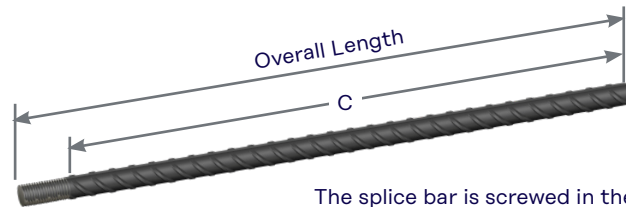
*ASTM A615 and A706 compliant



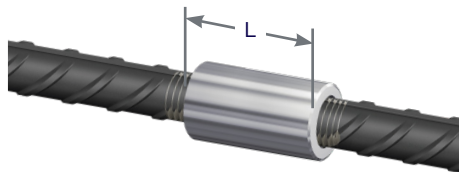
The Three-part Mechanical Connect System



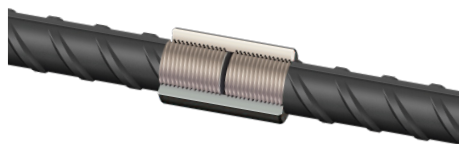
The setting bar is attached against the interior side of the formwork.



The splice bar is screwed in the setting bar after the form is stripped, continuing the rebar.



The coupler is a steel sleeve that the splice bars thread into, providing rebar continuity.



Standard Length Setting Bars				
Type 1 Item Number	Type 2 Item Number	Rebar Size	Grade 60 Finish: Plain	"A" Length (inch)
	MBR2610430F	#4	RC-61-T2 Setting Bar	30"
	MBR2610448F	#4	RC-61-T2 Setting Bar	48"
	MBR2610530F	#5	RC-61-T2 Setting Bar	30"
Contact	MBR2610536F	#5	RC-61-T2 Setting Bar	36"
Leviat	MBR2610548F	#5	RC-61-T2 Setting Bar	48"
	MBR2610636F	#6	RC-61-T2 Setting Bar	36"
	MBR2610648F	#6	RC-61-T2 Setting Bar	48"
	MBR2610760F	#7	RC-61-T2 Setting Bar	60"

Additional lengths are available for Type 1 & 2 upon request

Standard Length Splice Bars				
Type 1 Item Number	Type 2 Item Number	Rebar Size	Grade 60 Finish: Plain	"A" Length (inch)
	MBR2610430M	#4	RC-61-T2 Splice Bar	30"
	MBR2610448M	#4	RC-61-T2 Splice Bar	48"
	MBR2610530M	#5	RC-61-T2 Splice Bar	30"
Contact	MBR2610536M	#5	RC-61-T2 Splice Bar	36"
Leviat	MBR2610548M	#5	RC-61-T2 Splice Bar	48"
	MBR2610636M	#6	RC-61-T2 Splice Bar	36"
	MBR2610648M	#6	RC-61-T2 Splice Bar	48"
	MBR2610760M	#7	RC-61-T2 Splice Bar	60"

Additional lengths are available for Type 1 & 2 upon request

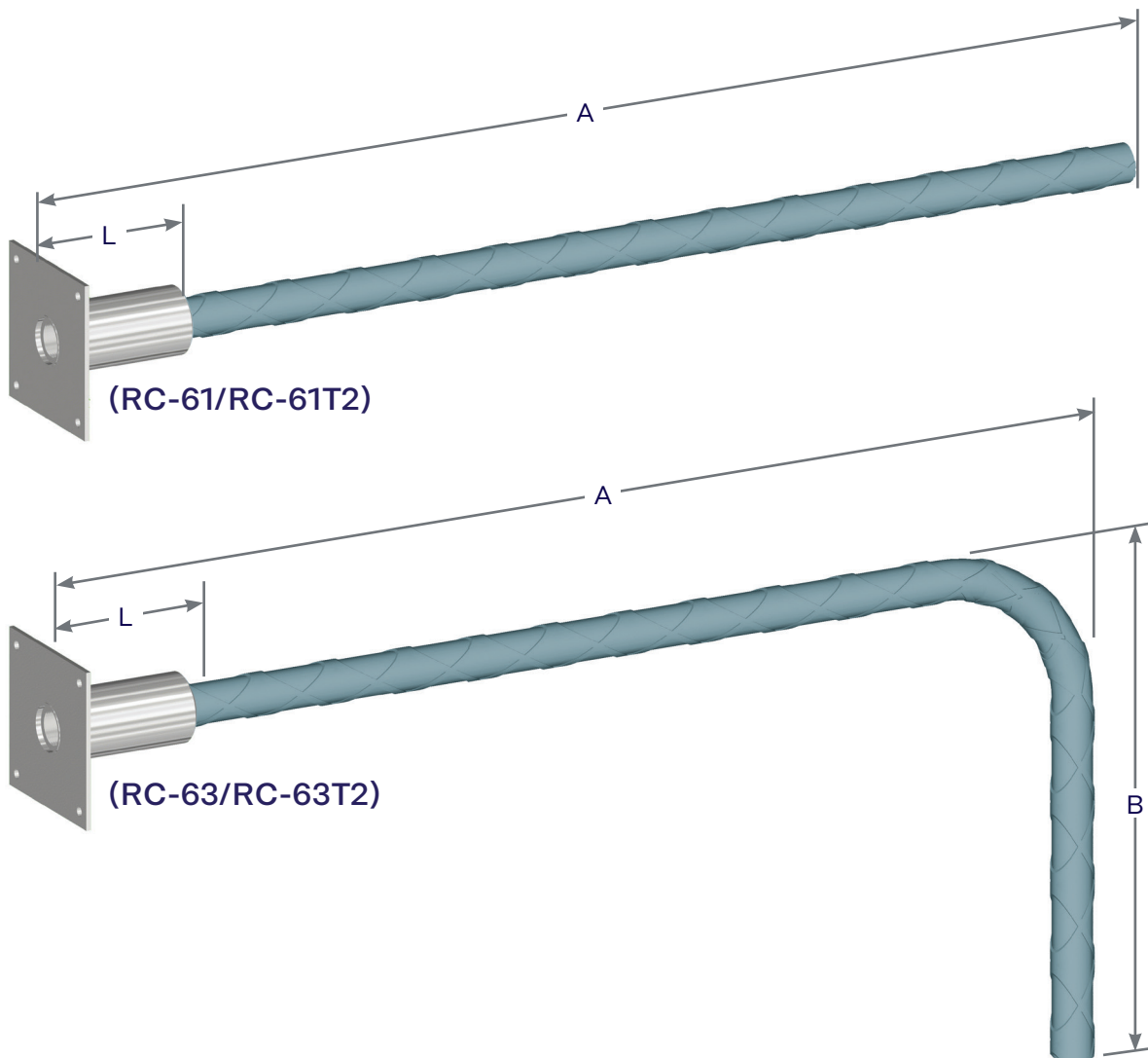
Type 1 Coupler Detail						
Standard Coupler PN# (plain finish)	Flange Coupler PN# (plain finish)	Rebar Size	Couple Thread Size	"L" Length (inch)	Diameter (inch)	Weight (lbs.)
MB860501	MB860502	#4	½ - 13 UNC	1.875	0.875	0.24
MB860651	MB860652	#5	¾ - 11 UNC	2.125	1.000	0.34
MB860801	MB860802	#6	¾ - 10 UNC	2.250	1.125	0.41
MB860951	MB860952	#7	¾ - 9 UNC	2.625	1.250	0.57
MB861101	MB861102	#8	1 - 8 UNC	3.250	1.500	1.08
MB861251	MB861252	#9	1½ - 7 UNC	3.750	1.625	1.39
MB861401	MB861402	#10	1¼ - 7 UNC	4.250	2.000	2.61
MB861551	MB861552	#11	1½ - 6 UNC	4.750	2.000	2.66

Type 2 Coupler Detail						
Standard Coupler PN# (plain finish)	Flange Coupler PN# (plain finish)	Rebar Size	Couple Thread Size	"L" Length (inch)	Diameter (inch)	Weight (lbs.)
MB860551	MB860552	#4	¾ - 11 UNC	1.250	1.000	0.17
MB860681	MB860682	#5	¾ - 10 UNC	1.625	1.125	0.25
MB860851	MB860852	#6	¾ - 9 UNC	2.250	1.250	0.40
MB860981	MB860982	#7	1 - 8 UNC	2.500	1.500	0.70
MB861151	MB861152	#8	1½ - 8 UN	2.750	1.625	0.88
MB861281	MB861282	#9	1¼ - 8 UN	3.000	2.000	1.70
MB861451	MB861452	#10	1½ - 8 UN	3.250	2.125	1.84
MB861581	MB861582	#11	1½ - 8 UN	3.625	2.250	2.19

BT Couplers are sold as an engineered component system, proof tested and third party certified. Under no circumstances will Meadow Burke permit the mixing other manufactures splicing parts with genuine MB components.

Setting Bar Assemblies

Meadow Burke BT Setting Bars are assemblies comprised of threaded rebar coupler and a length of Grade 60 deformed reinforcing steel threaded on one end. Setting Bars are available in all rebar sizes #4 through #11 and in any required length. The Setting Bar (RC-61/RC-61T2) model is furnished straight for standard lap splice applications and the Setting Bar (RC-63/RC-63T2) is furnished with a 90° bend. All setting bars are manufactured to furnished job specifications.

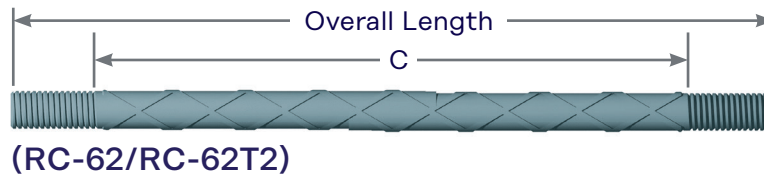
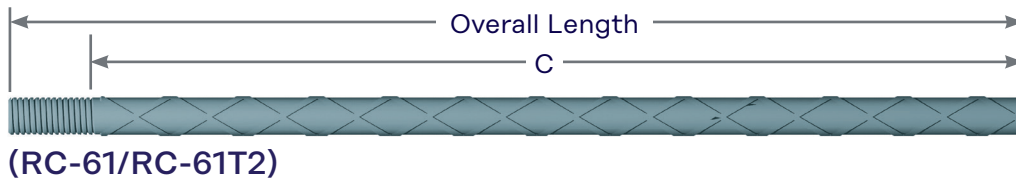


To Order, Specify:

For Setting Bar (RC-61/RC-61T2) – quantity, type, rebar size and overall length. (“A” + “L”)

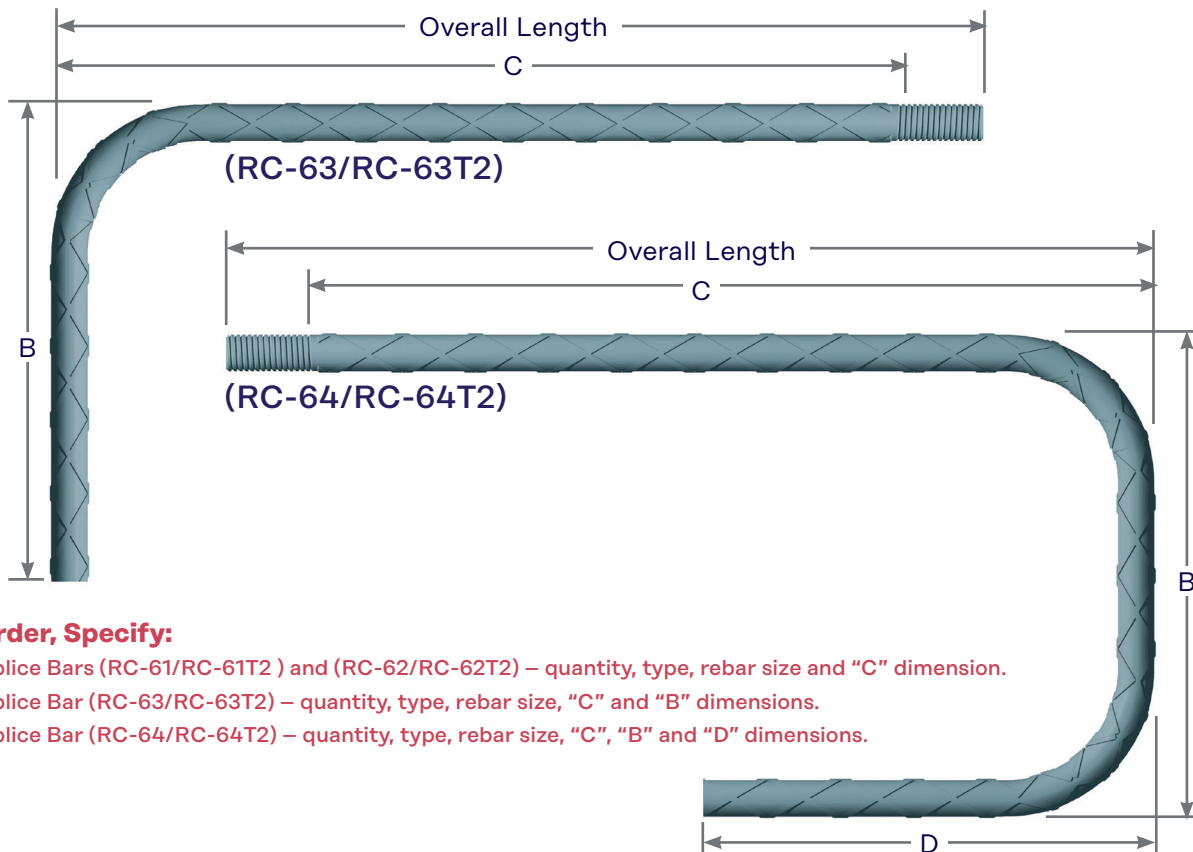
For Setting Bar (RC-63/RC-63T2) – quantity, type, rebar size, “A” and “B” dimensions.

Splice Bars



Meadow Burke BT Splice Bars are manufactured from Grade 60 deformed rebar material and are available in all of the corresponding sizes to the Threaded Rebar Coupler. After the Setting Bar has been placed and the concrete has set the Splice Bar is threaded into the Setting Bar to complete the splice. Splice Bars are available in the following configurations: RC-61/RC-61T2 straight, RC-63/RC-63T2 90° bend, RC-62/RC-62T2 threaded at both ends and with a RC-64/RC-64T2 return bend.

For Hook Bar development lengths actual dimensions C, B, D and R are functions of f'_c (concrete strength), PSI and minimums based on ACI-318-05 section 12.5 both code and commentary.



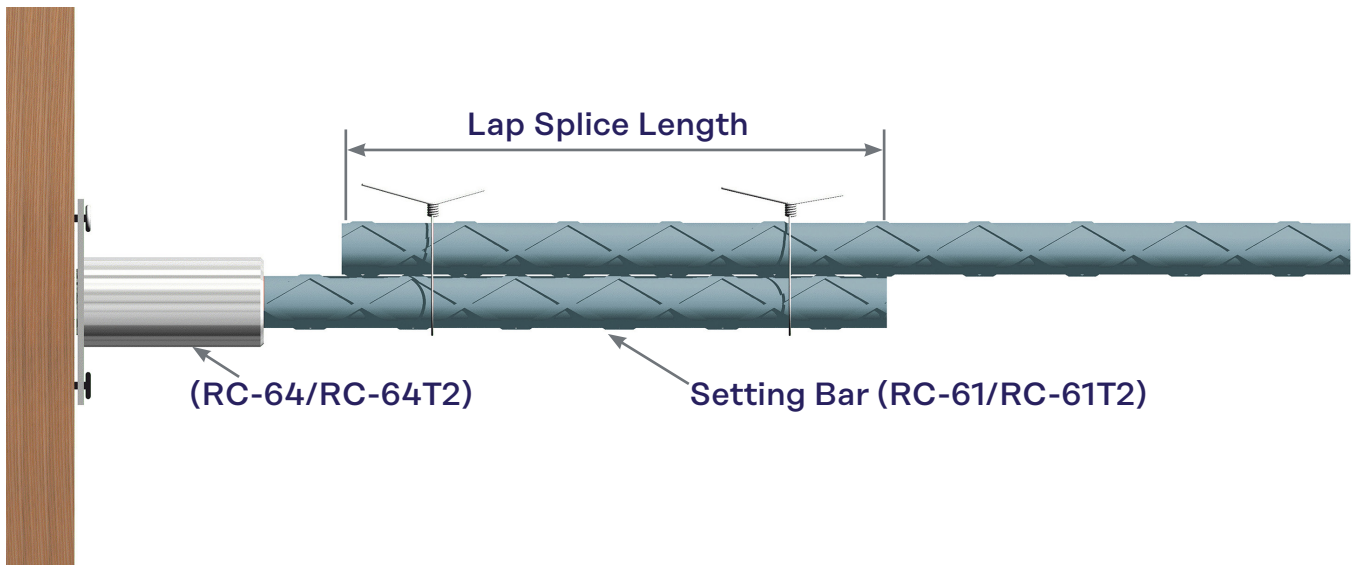
To Order, Specify:

For Splice Bars (RC-61/RC-61T2) and (RC-62/RC-62T2) – quantity, type, rebar size and “C” dimension.

For Splice Bar (RC-63/RC-63T2) – quantity, type, rebar size, “C” and “B” dimensions.

For Splice Bar (RC-64/RC-64T2) – quantity, type, rebar size, “C”, “B” and “D” dimensions.

Tension Splice Lap Length Data



Lap Splice Length of Deformed Bars in Tension			
Case	f'_c (psi)	No. 6 and Smaller Bars	No. 7 and Larger Bars
Clear spacing of bars or wires being developed or spliced not less than d_b clear cover not less than d_b and stirrups or ties throughout l_d not less than the code minimum or clear spacing of bars or wires being developed or spliced not less than $2d_b$ and clear cover not less than d_b (ACI 318-05 section 12.2.2)	3,000	44 d_b	55 d_b
	4,000	38 d_b	48 d_b
	5,000	34 d_b	43 d_b
	6,000	31 d_b	39 d_b
	8,000	27 d_b	34 d_b
Other Cases (ACI 318-05 section 12.2.2)	10,000	24 d_b	30 d_b
	3,000	66 d_b	83 d_b
	4,000	57 d_b	72 d_b
	5,000	51 d_b	64 d_b
	6,000	47 d_b	59 d_b
	8,000	41 d_b	51 d_b
	10,000	36 d_b	45 d_b

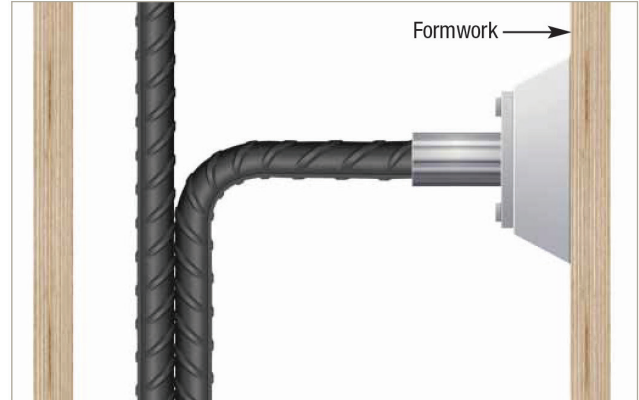
Table is based on the following criteria:

1. Grade 60 reinforcing steel bars.
2. Normal weight concrete factor $\lambda=1.0$.
3. Uncoated reinforcement factor, $\lambda=1.0$.
4. Reinforcement location factor, $\lambda=1.0$.

Installation



STEP 1 Ensure you are installing the bar size as per plan. Be sure that the protective thread plug is installed in the end of the coupler.



STEP 2 Lay the BT Coupler Setting Bar dowel parallel with rebar to be spliced. Position coupler plate flush against formwork and tie the female BT Coupler to the rebar mat. Be sure the bars are properly supported. Note: Roofing nails can be used to assure the coupler plate stays flush against formwork. The plate on the coupler is not intended to support the weight of the bar, workmen or equipment.



STEP 3 After concrete is placed and forms are stripped, the protective thread plug and face plate of the coupler are visible. The protective thread plug can be easily removed using a screwdriver or pliers.

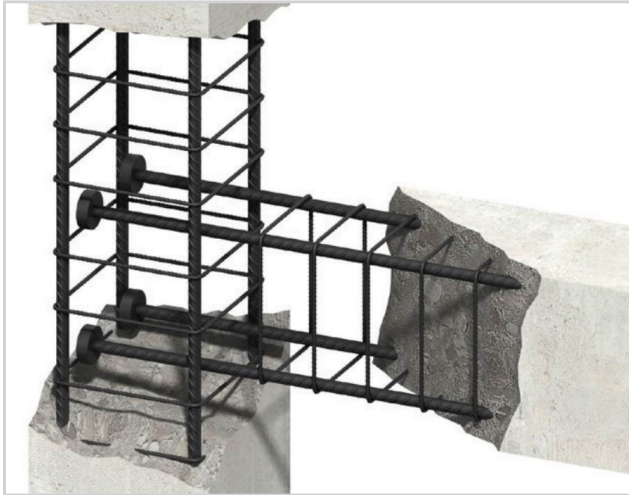


STEP 4 Remove the bar end protector from the male bar. Visually inspect the thread to make sure it is undamaged and free of rust or debris. If the threads need to be cleaned use a wire brush.

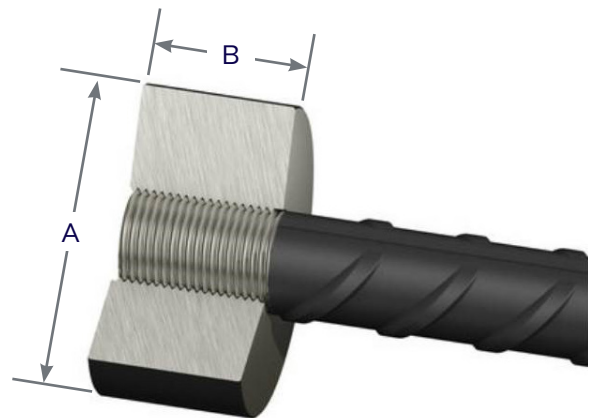


STEP 5 Thread a Splice Bar into Setting Bar until Splice Bar threads bottom out against Coupler Thread Stop, tighten hand tight (10 ft lbs.)

NOTE: In situations where proper positioning of setting or splice bar is not possible after hand tightening assembly, it is acceptable to unscrew one side up to 1 turn to correctly index hooks or bent bar in rebar cage.



RC-55T2 Type 2 End Anchor consists of a compact disc mounted into the Type 2 threaded rebars. RC-55T2 provides an alternative method of achieving rebar end anchorage within concrete. This product is capable of carrying the full tension load of the rebar when it bears against the concrete in which it is cast. The End Anchor removes the need for the hooked rebar end and subsequently reduces congestion, simplifying rebar placement. This in turn increases the speed of construction and gives greater flexibility in design. Typical applications include pile caps and beam-to-column connections.



Features & Benefits

- Develops full strength with hand-tighten installation
- Complies with ASTM A970 (class HA) and ACI 318
- Accommodates rebar sizes #4 through #11
- For use with Grade 60 rebar
- Available with two standard sizes to provide a net bearing area 5 or 10 times equal to the cross section area of the bar

Item Number (plain finish)	Description	A (inches)	B (inches)
MB861625	RC-55T2 #4 END ANCHOR 5X HEAD	1.125	0.625
MB861627	RC-55T2 #5 END ANCHOR 5X HEAD	1.500	0.750
MB861629	RC-55T2 #6 END ANCHOR 5X HEAD	1.750	0.875
MB861631	RC-55T2 #7 END ANCHOR 5X HEAD	2.000	1.000
MB861633	RC-55T2 #8 END ANCHOR 5X HEAD	2.250	1.125
MB861635	RC-55T2 #9 END ANCHOR 5X HEAD	2.625	1.375
MB861637	RC-55T2 #10 END ANCHOR 5X HEAD	2.875	1.500
MB861639	RC-55T2 #11 END ANCHOR 5X HEAD	3.250	1.625
MB861650	RC-55T2 #4 END ANCHOR 10X HEAD	1.625	0.625
MB861652	RC-55T2 #5 END ANCHOR 10X HEAD	2.000	0.750
MB861654	RC-55T2 #6 END ANCHOR 10X HEAD	2.375	0.875
MB861656	RC-55T2 #7 END ANCHOR 10X HEAD	2.875	1.000
MB861658	RC-55T2 #8 END ANCHOR 10X HEAD	3.250	1.125
MB861660	RC-55T2 #9 END ANCHOR 10X HEAD	3.625	1.375
MB861662	RC-55T2 #10 END ANCHOR 10X HEAD	4.125	1.500
MB861664	RC-55T2 #11 END ANCHOR 10X HEAD	4.500	1.625

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