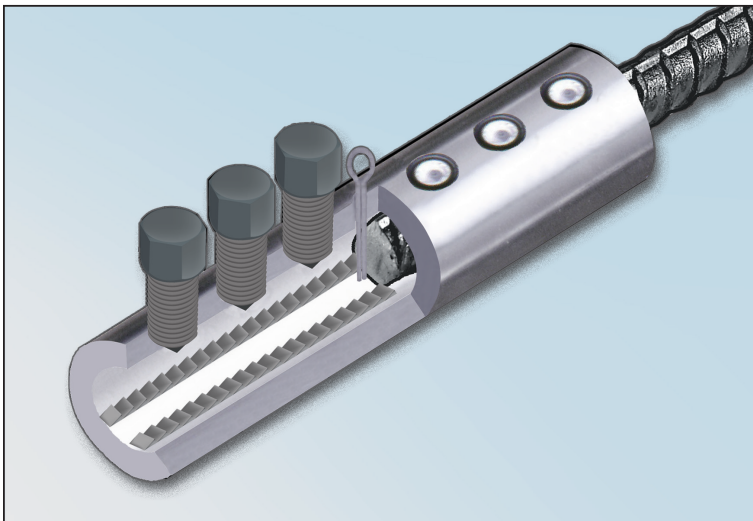


BAR LOCK[®] COUPLER SYSTEM

The Dayton Superior Bar Lock[®] Coupler System provides a simple, quick, cost effective method for splicing smooth or deformed rebar in tension and/or compression applications. Bar Lock[®] couplers are effective when used as a "positional" coupler when the rebar is fixed in place or when the rebar is free to rotate. Bar Lock[®] couplers utilize lock-shear bolts and serrated grip rails to mechanically splice the rebar. The serrated grip rails are embedded in the rebar as the lock-shear bolts are tightened. The heads of the lock-shear bolts are designed to shear off at a prescribed torque to ensure proper installation.



SYSTEM ADVANTAGES

Quick and easy to install to save time and money.

Eliminates bar threading or special bar-end treatment.

No special installation equipment required.

High strength in tension, compression and seismic applications.

Available in standard, transition and weldable versions in sizes #4 through #18.

Ideal for new construction and rehab projects.

SYSTEM COMPLIANCE

Bar Lock[®] couplers are test-certified to exceed the requirements of, and are pre-qualified, approved or recognized by the following building approval agencies:

State Departments of Transportation
International Code Council (ICC)
Southern Building Code Congress International (SBCCI)

American Concrete Institute (ACI)
Concrete Reinforcing Steel Institute (CRSI)
City of Los Angeles Department of Building and Safety

SYSTEM TESTING

Bar Lock[®] couplers are tested by independent, certified testing laboratories in four modes of testing: tension, compression, fatigue and cyclic.

All tests are done to the requirements of ICC and/or Caltrans utilizing grade 60 rebar material.

Bar Lock[®] source materials are fabricated under ISO9001 quality standards.

BAR LOCK® COUPLER SYSTEM

D-250-SCA BAR LOCK * S/CA SERIES COUPLERS

The Bar Lock® S/CA Series Couplers (D-250-SCA) are designed for use in most tension and compression applications. They are available in rebar sizes #4 through #18 and exceed 135% of specified yield of Grade 60 rebar. S/CA couplers are an approved Caltrans "Service" splice and are recognized by ICC, ACI and most State Departments of Transportation. S/CA couplers are available in transition sizes and weldable half couplers.

D-250-L BAR LOCK * L-SERIES COUPLERS

The Bar Lock® L-Series Coupler (D-250-L) is similar to the Standard Coupler but is designed for use when higher loads are required, such as extreme tension/compression applications and/or seismic loading conditions. D-250-L couplers are available in rebar sizes #4 through #14 and exceed 160% of specified yield of Grade 60 rebar. L-Series couplers are approved for use by most state DOT's, are recognized as an ICC Type 2 seismic splice and meet ACI specifications. L-Series couplers are also available in transition sizes and weldable half couplers, and epoxy coated.

END ANCHORS

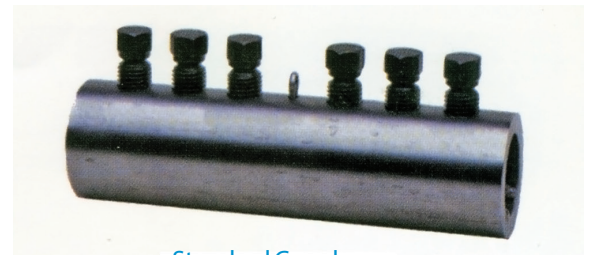
Bar Lock® End Anchors are designed to develop the end of an existing bar in a confined space. End Anchors are fabricated by welding a Bar Lock® weldable half-coupler to an ASTM A-36 steel plate.

End Anchor Notes

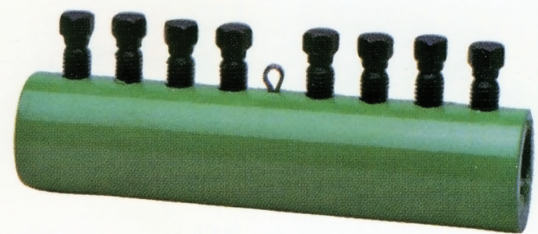
- Eliminates rebar congestion and aids in concrete placement.
- Eliminates the need for hooked rebar.
- Reduces engineering design time.
- Improves safety related issues on the job site by reducing protruding dowels.

Square Head End Anchor Dimensions

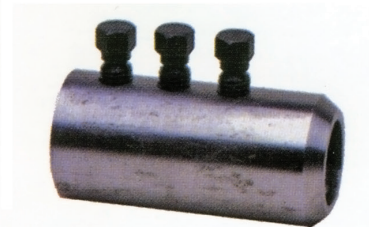
End Anchor Bar Size	Plate Thickness "T"	Plate Length "L"
#4	1/2"	2"
#5	1/2"	2 1/2"
#6	5/8"	2 3/4"
#7	5/8"	3 1/4"
#8	3/4"	3 3/4"
#9	3/4"	4 1/4"
#10	7/8"	4 3/4"
#11	1"	5"
#14	1 1/4"	6 1/4"



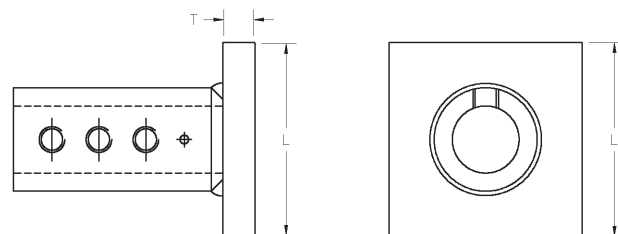
Standard Coupler



High Strength Coupler
(Example shown is epoxy coated)



Structural Steel Connector



Av. del Cóndor 550 Of. 401 Huechuraba Tel: (56-2) 248 2554 Fax: (56-2) 248 2559 – E-mail: lycsa@manquehue.net

D-250-SCA Bar Lock® S/CA-Series Couplers

				Tube Specifications			Bolt Specifications			Meets or Exceeds		
Product Code	Coupler Designation	For Use on Rebar Size (in. mm.)	*Barrel Stamp Identification	Outside Diameter (in.)	Length (in.)	Weight (lbs.)	Bolt Qty.	Head Size (in.)	Nominal Shear Torque*	Min % Fy	CAL TRANS Service	ICC Type 1
400200	4 S/CA	#4 - 13M	4SXXXCA	1.3	3.9	1.0	2	0.5	40	135	✓	✓
400201	5 S/CA	#5 - 16M	5SXXXCA	1.7	4.5	1.8	2	0.5	80	135	✓	✓
400202	6 S/CA	#6 - 19M	6SXXXCA	1.9	6.3	3.5	3	0.5	80	135	✓	✓
400203	7 S/CA	#7 - 22M	7SXXXCA	1.9	8.0	4.1	4	0.5	90	135	✓	✓
400204	8 S/CA	#8 - 25M	8SXXXCA	2.2	10.2	7.6	4	0.625	180	135	✓	✓
400205	9 S/CA	#9 - 29M	9SXXXCA	2.9	9.0	11.4	3	0.75	290	135	✓	✓
400206	10 S/CA	#10 - 32M	10SXXXCA	2.9	11.5	15.5	4	0.75	350	135	✓	✓
400207	11 S/CA	#11 - 36M	11SXXXCA	3.1	14.0	20.5	5	0.75	350	135	✓	✓
400208	14 S/CA	#14 - 43M	14SXXXCA	3.5	16.5	26.0	6	0.75	350	135	✓	✓
400209	18 S/CA	#18 - 57M	18SXXXCA	4.3	27.1	60.0	10	.75	475	135	✓	✓

*Note in place of the "XXX", each Bar Lock® Coupler is marked with a tracking code used for full, manufacturing, traceability

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D-250-L Bar Lock® L-Series Couplers

Coupler Designation	For Use on Rebar Size			*Barrel Stamp Identification	Tube Specifications			Bolt Specifications			Meets or Exceeds			
	US	metric [mm]	CN [M]		Outside Diameter (in.)	Length (in.)	Weight (lbs)	Bolt Qty.	Head Size (in.)	Nominal Shear Torque	Min. %Fy**	CAL TRANS Service	ICC Type 1	ICC Type 2
4L	#4	[13]	[10]	4LXXX	1.3	5.5	1.6	3	0.5	40	160	✓	✓	✓
5L	#5	[16]	[15]	5LXXX	1.7	6.3	2.8	3	0.5	80	160	✓	✓	✓
6L	#6	[19]	[20]	6LXXX	1.9	8.0	4.5	4	0.5	80	160	✓	✓	✓
7L	#7	[22]	-	7LXXX	1.9	9.8	5.5	5	0.5	80	160	✓	✓	✓
8L	#8	[25]	[25]	8LXXX	2.2	12.3	9.5	5	0.625	180	160	✓	✓	✓
9L	#9	[29]	[30]	9LXXX	2.9	11.5	15.5	4	0.75	280	160	✓	✓	✓
10L	#10	[32]	-	10LXXX	2.9	14.0	19.5	5	0.75	410	160	✓	✓	✓
11L	#11	[36]	[35]	11LXXX	3.1	16.5	24.0	6	0.75	410	160	✓	✓	✓
14L	#14	[43]	[45]	14LXXX	3.5	19.1	32.0	7	0.75	410	160	✓	✓	✓

** When used in conjunction with epoxy-coated Grade 60 rebar, 135% Fy strength is developed.

*Note in place of the "XXX", each Bar Lock® Coupler is marked with a tracking code used for full, manufacturing, traceability

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