

## TECHNICAL DATA SHEET

### DESCRIPTION

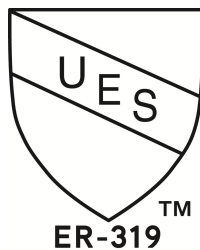
The D250L Bar Lock Coupler is a Type 2 rebar coupler used to connect two pieces of rebar. It consists of a thick walled tube, specially designed lock shear bolts, serrated grip rails, and a center stop pin. The D250L is made from USA melted and rolled steel.

### APPLICATION

The D250L Bar Lock Coupler is used to provide a continuous path of mechanical reinforcing from two pieces of the same diameter rebar.

### PRODUCT SPECIFICATION

- Rebar sizes 10M through 55M
- Available in plain, epoxy coated or galvanized finish
- Designed to achieve Type 2 splice when used with grade 400W or grade 500W rebar
- Designed to achieve Type 1 splice when used with epoxy-coated grade 500W rebar per CAN/CSA A 23.3



### FEATURES

- Quick and easy installation
- No bar end preparation
- Installation at the job site
- Used in tension, compression, and seismic applications

### BENEFITS

- Saves time and money
- No fabrication required
- One product for all applications

### HOW TO SPECIFY

Specific:

Mechanical connections shall be Bar Lock® Rebar Splices as manufactured by Dayton Superior Corp.

Generic:

The mechanical connection shall meet building code requirements of developing in tension and compression as required by \_\_\_\_\_ (insert name here). The mechanical connection shall be made from lock shear bolt couplers with serrated gripping rails manufactured from high quality steel. All couplers shall be installed per the manufacturer's approved procedures.

### TECHNICAL DATA

Coupler Designation	Barrel Stamp Identifier	Bar Size			Product Specifications			Bolt Specifications		
		US	Metric (mm)	CN (M)	Outside Dia. (mm)	Length (mm)	Weight (kg)	Bolt Qty	Head Size (mm)	Nominal Shear Torque (N-m)
4L	4L...	#4	[13]	[10]	33	140	0.7	6	13	55
5L	5L...	#5	[16]	[15]	43	160	1.3	6	13	108
6L	6L...	#6	[19]	[20]	48	203	2.0	8	13	108
7L	7L...	#7	[22]	—	48	249	2.3	10	13	108
8L	8L...	#8	[25]	[25]	61	312	4.0	10	16	240
9L	9L...	#9	[29]	[30]	74	292	6.7	8	19	475
10L	10L...	#10	[32]	—	74	356	8.2	10	19	564
11L	11L...	#11	[36]	[35]	79	419	10.6	12	19	564
14L	14L...	#14	[43]	[45]	89	549	15.9	16	19	645
18L	18L...	#18	[57]	[55]	109	818	40.9	24	19	645

Note: the "..." is replaced with a tracing code used for full manufacturing traceability on each Bar Lock Coupler

### APPROVALS / COMPLIANCE

- CAN/CSA A23.3 Type 1 & Type2 (CSA G30.18, Grade 400W & 500W)
- IAPMO UES Listed (ER-0319)
- Ministry of Transportation of Ontario (DSM 9.65.58)
- CAN/CSA S-6
- International Building Code (IBC)

## TECHNICAL DATA SHEET

### INSTALLATION

1. Insert end of the first bar halfway into the coupler to the center pin. Hold bar in place and hand-tighten all bolts.
2. Insert end of the second bar halfway into the coupler to the center pin. Hold bar in place and hand-tighten all bolts.
3. In a random alternating pattern, tighten all bolts to approximately 50% of the specified bolt torque value.
4. In a random alternating pattern, tighten all bolts to approximately 75% of the specified bolt torque value.
5. Tighten all bolts in a random alternating pattern until all bolt heads shear off.

#### Notes:

A. Prior to tightening, the serrated rails **MUST** remain aligned in the same position as they were manufactured. If they are damaged or knocked out of alignment while positioning, installation **MUST** cease, and a new coupler used.

B. Bolt tightening **MUST** be done in a random alternating pattern similar to tightening the lug nuts on an automobile wheel. The torque percentages are just approximations, the main intent is to torque the bolt heads off in 3 passes.

C. A high-quality, 1" -pneumatic drive, impact wrench with at least 100 psig air flow and 185 CFM of delivered air through a no less than 0.75" hose **MUST** be used for installation for sizes #8 thru #18. Sizes #4 thru #7 may be installed with smaller impact wrenches.

### RELATED PRODUCTS

- D250SCA Bar Lock® Couplers
- D250XL Bar Lock® Couplers

### HOW TO ORDER

Specify: (1) quantity, (2) name, (3) bar size, (4) finish

Example: 500, D250L Bar Lock® Rebar Couplers, 13MM, Galvanized

### ORDERING INFORMATION

#### BAR LOCK® L-SERIES COUPLERS - BLACK

Product Code	Description	Weight
400226	#4 [13MM]	1.565 LB
400227	#5 [16MM]	2.781 LB
400327	#3 [10MM]	1.127 LB
400228	#6 [19MM]	4.321 LB
400229	#7 [22MM]	5.148 LB
400230	#8 [25MM]	8.732 LB
400231	#9 [29MM]	14.704 LB
400232	#10 [32MM]	17.891 LB
400233	#11 [36MM]	23.262 LB
100521	#12 [40MM]	23.262 LB
145831	#14 [43MM]	35.140 LB
142996	#18 [57MM]	90.100 LB

#### BAR LOCK® L-SERIES COUPLERS - EPOXY

Product Code	Description	Weight
144988	#3 [10MM]	1.127 LB
400235	#4 [13MM]	1.565 LB
400236	#5 [16MM]	2.781 LB
400237	#6 [19MM]	4.321 LB
400238	#7 [22MM]	5.148 LB
400239	#8 [25MM]	8.732 LB
400240	#9 [29MM]	14.704 LB
400241	#10 [32MM]	17.981 LB
400242	#11 [36MM]	23.262 LB
145832	#14 [43MM]	35.140 LB
142997	#18 [57MM]	90.100 LB

#### BAR LOCK® L-SERIES COUPLERS - GALVANIZED

Product Code	Description	Weight
145964	#4 [13MM]	1.565 LB
145965	#5 [16MM]	2.781 LB
145966	#6 [19MM]	4.321 LB
145967	#7 [22MM]	5.148 LB
145968	#8 [25MM]	8.732 LB
145970	#10 [32MM]	17.981 LB
145972	#14 [43MM]	43.225 LB
145973	#18 [57MM]	90.100 LB

### MANUFACTURER

Dayton Superior Corporation  
 1125 Byers Road  
 Miamisburg, OH 45342  
 Customer Service: 888-977-9600  
 Technical Services: 877-266-7732  
 Website: [www.daytonsuperior.com](http://www.daytonsuperior.com)

**TECHNICAL DATA SHEET****WARRANTY (ACCESSORIES)**

Limited Warranty. Dayton warrants, for a period of 60 days from the date of shipment (three years from the date of shipment in the case of formwork, excluding any consumable Products included with such formwork), that Products and any associated application drawings and engineering services provided by Dayton ("Ancillary Services") will be free from defects in material and workmanship and, in the case of custom designed formwork, that the formwork will meet the specifications set forth in the design drawings approved by Dayton and Customer. Any claim under this warranty must be made in writing within such warranty period. If any Product and/or Ancillary Service covered by a timely claim are found to be defective, Dayton will, within a reasonable time, make any necessary repairs or corrections or, at Dayton's option, replace the Product. Unless pre-authorized by Dayton in writing, Dayton will not accept any charges for correcting defects or accept the return of any Product. This warranty will not apply to any Products that have been subjected to misuse, neglect, storage damage, misapplication, accident or any other damage caused by any person other than Dayton, or that have not been maintained in accordance with Dayton's specifications. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES AS TO THE PRODUCTS AND ANCILLARY SERVICES. DAYTON MAKES NO OTHER WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE. THE REMEDIES SET FORTH IN THIS SECTION ARE CUSTOMER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY.