

## TECHNICAL DATA SHEET

### DESCRIPTION

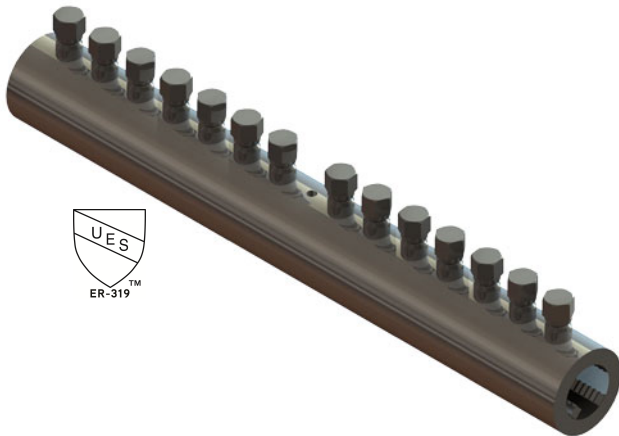
The D250XL Bar Lock Coupler is a Type 2 rebar coupler used to connect two pieces of rebar. It consists of a thick walled tube, specially designed lock shear bolts, serrated grip rails, and a center stop pin. The D250XL is made from USA melted and rolled steel.

### APPLICATION

The D250XL 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 #4 (13mm) through #18 (57mm)
- Available in plain, epoxy coated, or galvanized finish
- Designed to splice Grade 75/80 rebar



### 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	Bar Size			Barrel Stamp Identif.	Product Spec.			Bolt Spec.		
	US	Metric (mm)	CN (M)		Outside Dia. (in.)	Length (in.)	Weight (lbs)	Bolt Qty.	Head Size (in.)	Nominal Sheer Torque (ft-lb)
3 XL	#3	[10]	--	3 XL...	1.3	8.7	2.4	10	0.500	40
4 XL	#4	[13]	[10]	4 XL...	1.3	10.2	2.9	12	0.500	40
5 XL	#5	[16]	[15]	5 XL...	1.7	11.5	5.0	12	0.500	80
6 XL	#6	[19]	[20]	6 XL...	1.9	13.2	6.9	14	0.500	80
7 XL	#7	[22]	--	7 XL...	1.9	15.0	7.8	16	0.500	80
8 XL	#8	[25]	[25]	8 XL...	2.4	18.7	13.2	16	0.500	180
9 XL	#9	[29]	[30]	9 XL...	2.9	19.1	24.2	14	0.625	350
10 XL	#10	[32]	--	10 XL...	2.9	21.6	27.2	16	0.750	350
11 XL	#11	[36]	[35]	11 XL...	3.1	24.1	33.4	18	0.750	415
14 XL	#14	[43]	[45]	14 XL...	3.5	29.1	46.0	22	0.750	475
18 XL	#18	[57]	[55]	18 XL...	4.3	44.8	98.0	34	0.750	475

### APPROVALS / COMPLIANCE

- ACI 318 Type 2
- State Departments of Transportation
- AASHTO
- International Building Code (IBC)
- ICC UES Listed (ER-319)

### INSTALLATION

1. A high-quality, 1" - drive pneumatic, impact wrench and towable air compressor are required for sizes #8 thru #18. The requirements for air flow is 100 psig of operating pressure and 185 cfm of delivered air to the impact wrench through a ¾" - 1" air hose.
2. Sizes #4 thru #7 may be installed with smaller impact wrenches.
3. Prior to bolt tightening, the serrated rails MUST remain aligned in the same position as they were manufactured. If damaged or knocked out of alignment while positioning, installation MUST cease and a new coupler used to replace damaged coupler.
4. Bolt tightening MUST be done in a random alternating pattern similar to tightening the lug nuts on an automobile wheel (i.e., 2-4-1-3).
5. By using the recommended and required tools, installers will see a minimization of installation time and energy. This translates to increased efficiency and cost savings.

## TECHNICAL DATA SHEET

### RELATED PRODUCTS

- D250SCA Bar Lock® Couplers
- D250L Bar Lock® Couplers

### HOW TO ORDER

Specify: (1) quantity, (2) name, (3) bar size, (4) finish  
 Example: 500, D250XL Bar Lock® Rebar Couplers, #18, Galvanized

### ORDERING INFORMATION

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

Product Code	Description	Weight
400327	#3 [10MM]	1.67 LB
400226	#4 [13MM]	1.67 LB
400227	#5 [16MM]	2.90 LB
400228	#6 [19MM]	4.44 LB
400229	#7 [22MM]	5.10 LB
400230	#8 [25MM]	8.93 LB
400231	#9 [29MM]	15.09 LB
400232	#10 [32MM]	18.40 LB
400233	#11 [36MM]	23.75 LB
145831	#14 [43MM]	44.50 LB
142996	#18 [57MM]	73.33 LB

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

Product Code	Description	Weight
144988	#3 [10MM]	1.67 LB
400235	#4 [13MM]	1.67 LB
400236	#5 [16MM]	2.93 LB
400237	#6 [19MM]	4.44 LB
400238	#7 [22MM]	5.10 LB
400239	#8 [25MM]	8.95 LB
400240	#9 [29MM]	15.12 LB
400241	#10 [32MM]	18.49 LB
400242	#11 [36MM]	23.82 LB
145832	#14 [43MM]	40.00 LB
142997	#18 [57MM]	97.80 LB

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

Product Code	Description	Weight
145964	#4 [13MM]	1.67 LB
145965	#5 [16MM]	2.90 LB
145966	#6 [19MM]	4.44 LB
145967	#7 [22MM]	5.10 LB
145968	#8 [25MM]	8.94 LB
145969	#9 [29MM]	15.07 LB
145970	#10 [32MM]	18.50 LB
145971	#11 [36MM]	23.75 LB
145972	#14 [43MM]	31.60 LB
145973	#18 [57MM]	97.80 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)

### 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.