

TECHNICAL DATA SHEET

DESCRIPTION

The D250SCA Bar Lock is a Type 1 rebar coupler consisting of a thick walled tube, specially designed lock shear bolts, serrated grip rails, and a center stop pin. The D250SCA is made from USA melted and rolled steel.

APPLICATION

The D250SCA Bar Lock Coupler is used to provide a continuous path of mechanical reinforcing between two pieces of the same diameter rebar.

PRODUCT SPECIFICATION

- Rebar sizes #3 (13mm) through #18 (57mm)
- Available in plain, epoxy coated or galvanized finish (call for availability for galvanized finish)
- Designed to achieve type I splice when used with grade 60 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

TECHNICAL DATA

Product Code		Bar Size Designation			Product Specifications			Coupler Designation
Black	Epoxy	US	Metric (mm)	CN (M)	Outside Diameter (in.)	Length (in.)	Weight (lbs.)	
400200	400210	#3	[10]	-	1.3	3.9	1.24	3 S/CA
400200	400210	#4	[13]	[10]	1.3	3.9	1.24	4 S/CA
400201	400211	#5	[16]	[15]	1.7	4.5	2.11	5 S/CA
400202	400212	#6	[19]	[20]	1.9	6.3	3.57	6 S/CA
400203	400213	#7	[22]	-	1.9	8.0	4.30	7 S/CA
400204	400214	#8	[25]	[25]	2.4	10.2	6.10	8 S/CA
400205	400215	#9	[29]	[30]	2.9	9.0	11.88	9 S/CA
400206	400216	#10	[32]	-	2.9	11.5	15.17	10 S/CA
400207	400217	#11	[36]	[35]	3.1	14.0	20.50	11 S/CA
400208	400218	#14	[43]	[45]	3.5	16.5	27.57	14 S/CA
400209	400219	#18	[57]	[55]	4.3	27.2	62.00	18 S/CA

Product Code		Bolt Specifications			Meets or Exceeds			Barrel Stamp Identification
Black	Epoxy	Bolt Qty.	Head Size (in.)	Nominal Shear Torque*	Min % Fy**	CAL TRANS Service	ICC Type 1	
400200	400210	4	0.5	40	135	YES	YES	3S...CA
400200	400210	4	0.5	40	135	YES	YES	4S...CA
400201	400211	4	0.5	80	135	YES	YES	5S...CA
400202	400212	6	0.5	80	135	YES	YES	6S...CA
400203	400213	8	0.5	80	135	YES	YES	7S...CA
400204	400214	8	0.625	180	135	YES	YES	8S...CA
400205	400215	6	0.75	350	135	YES	YES	9S...CA
400206	400216	8	0.75	415	135	YES	YES	10S...CA
400207	400217	10	0.75	415	135	YES	YES	11S...CA
400208	400218	12	0.75	475	135	YES	YES	14S...CA
400209	400219	20	0.75	475	135	YES	YES	18S...CA

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

* Four pounds

** When used in conjunction w/ epoxy-coated Grade 60 rebar, 125% Fy strength is developed. Galvanized Finish available. Call for details.

APPROVALS / COMPLIANCE

- ACI 318-II Type 1 (ASTM Gr. 60bar)
- ICC AC-133
- Army Corps of Engineers CW 03210
- AASHTO
- International Build Code (IBC)

INSTALLATION

1. Insert the end of the first rebar halfway into the coupler until it contacts the center stop pin.
2. Holding the first rebar in place, tighten all the bolts on that half until they are hand tight against the rebar.
3. Insert the end of the second rebar halfway into the coupler until it contacts the center stop pin.
4. Holding the second rebar in place, tighten all the bolts on that half until they are hand tight against the rebar.
5. In a random alternating pattern, tighten all bolts to approximately 50% of the specified bolt torque value
6. In a random alternating pattern, tighten all bolts to approximately 75% of the specified bolt torque value.
7. In a random alternating pattern, tighten all bolts until all the heads of the bolts shear off.
8. Prior to bolt 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.

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9. Bolt tightening **MUST** be done in a random alternating pattern similar to tightening the lug nuts on an automobile wheel.
10. 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.

HOW TO ORDER

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

Example: 500, D250SCA Bar Lock Rebar Couplers, #18, Epoxy Coated

ORDERING INFORMATION

BLACK (MADE IN USA)

Product Code	Description	Weight
400200	#3 [10MM]	1.22 LB
400200	#4 [13MM]	1.22 LB
400201	#5 [16MM]	2.10 LB
400202	#6 [19MM]	3.50 LB
400203	#7 [22MM]	4.30 LB
400204	#8 [25MM]	7.48 LB
400205	#9 [29MM]	11.81 LB
400206	#10 [32MM]	15.07 LB
400207	#11 [36MM]	20.50 LB
400208	#14 [43MM]	27.50 LB
400209	#18 [57MM]	64.00 LB

EPOXY (MADE IN USA)

Product Code	Description	Weight
400210	#3 [10MM]	1.25 LB
400210	#4 [13MM]	1.25 LB
400211	#5 [16MM]	2.12 LB
400212	#6 [19MM]	3.59 LB
400213	#7 [22MM]	4.38 LB
400214	#8 [25MM]	6.15 LB
400215	#9 [29MM]	11.90 LB
400216	#10 [32MM]	15.1 LB
400217	#11 [36MM]	20.14 LB
400218	#14 [43MM]	27.5 LB
400219	#18 [57MM]	62.0 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

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.