

TECHNICAL DATA SHEET

DESCRIPTION

The D101A DB Dowel Bar is a Full-Ultimate rebar coupler used to connect rebar. It consists of an integral, nailing flange, a coupler forged from the end of the rebar with parallel threads.

APPLICATION

The D101A Dowel Bar (DB), is used with a male (DI) bar to connect rebar between segmental, concrete pouring. It may be attached to formwork through the integral nailing flange.

PRODUCT SPECIFICATION

- Rebar sizes #4 (10m) through #11(35m)
- Available with clipped or full flange
- Available in plain, epoxy coated, or galvanized finish
- Available in carbon, weldable, or stainless steel



FEATURES

- Ability to use the flange and nails to attach the system to formwork
- Available in standard and customized lengths
- DBDI, Full Ultimate, parallel threads

BENEFITS

- Easier to use and up to 25% faster installation
- Saves \$'s in form repair costs by not requiring a rebar through-hole
- Compliance to all building specifications

HOW TO SPECIFY

Specific:

Mechanical connections shall be DBDI® 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 the forged and parallel threaded type coupler manufactured from high quality steel. All couplers shall be installed per the manufacturer's approved procedures.

TECHNICAL DATA

Specified or Required Dowel Bar				Recommended Dowel Bar and Dowel-In							
Bar Size Designation			Grade 400W Equivalent Rebar Loads (N)		System Thread Size *	DB-SAE Bar Size	Dowel-In Bar Size	System Stress Area (mm ²)	Completed Splice (N)		
US	Metric (mm)	CN (M)	P _y	1.25 P _y					P _y	1.25 P _y	100% P _y
#4	[13]	[10]	53,300	66,700	5/8" - 11	#4	#4	129	53,300	66,700	80,000
#5	[16]	[15]	82,700	103,400	3/4" - 10	#5	#5	200	18,600	23,250	124,100
#6	[19]	[20]	117,400	146,700	7/8" - 9	#6	#6	284	26,400	33,000	176,100
#7	[22]	--	160,100	200,100	1" - 8	#7	#7	387	36,000	45,000	240,200
#8	[25]	[25]	210,800	263,500	1-1/8" - 8	#8	#8	510	47,400	59,250	316,200
#9	[29]	[30]	266,800	333,600	1-1/4" - 8	#9	#9	645	60,000	75,000	400,300
#10	[32]	--	338,900	423,600	1-7/16" - 8	#10	#10	819	76,200	95,250	507,000
#11	[36]	[35]	416,300	520,400	1-9/16" - 8	#11	#11	1006	93,600	117,000	624,500

P_y = Minimum Yield Strength of bar

P_u = Minimum Tensile Strength of bar

*5/8", 3/4", 7/8" and 1" sizes have UNC Threads. 1-1/8" and larger sizes are equipped with UN Threads.

APPROVALS / COMPLIANCE

- ACI 318 Type 2
- CAN/CSA A23.3 Type 1 & 2 Grade 400W & Grade 500W
- Caltrans Ultimate Splice
- CAN/CSA S-6 Bridge Standard Grade 400W & Grade 500W
- Ministries of Transportation, Ontario
- State Departments of Transportation
- AASHTO
- International Building Code
- City of Los Angeles Department of Building & Safety
- IAPMO UES Listed (ER-319)

INSTALLATION

1. Insert male DI bar into a female, DB coupler bar
2. Rotate the male threaded rebar clockwise until the threads of the male bar interlock with the threads of the female coupler, making sure the connection is hand-tight
3. If required, the system can be unthreaded up to one full rotation, but at no time should a wrench be used to torque the connection.

RELATED PRODUCTS

- D101 DI threaded dowel
- D102 90-degree hooked dowel in
- D103 180-degree hooked dowel in
- D104 double ended dowel in

HOW TO ORDER

- Specify: (1) quantity, (2) name, (3) bar size, (4) length, (5) rebar

Example: 500, D101A DB Dowel bar, #5 x 550mm long, epoxy coated, Grade 400 MPa rebar

TECHNICAL DATA SHEET**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.