

TECHNICAL DATA SHEET

DESCRIPTION

The Dayton Superior Male Dowel-In (DI) is used with a Female (DB) Coupler Bar to splice rebar in slab mats, column cages, walls, segmental pours etc. The threaded end of the Dowel-In is enlarged by forging, before threading, to ensure that the cross-sectional area of the bar is not reduced by the threading operation. This design feature assures full ultimate strength of the rebar. Dowel-Ins are configured to facilitate easy installation and can be easily assembled by hand.

APPLICATION

Used to splice rebar in slab mats, column cages, walls, segmental pours etc.

PRODUCT SPECIFICATION

- Rebar sizes #4 (10M) through #11 (35M)
- Available in plain, epoxy coated or galvanized
- Available in carbon, weldable or stainless steel



D-101 Straight Dowel-In

FEATURES

- Splice develops full ultimate strength of rebar
- Easy to use, no special tools required
- Used in conjunction with a DB to eliminate protruding dowels / rebar

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

- D101A Dowel Bar
- D102A 90-degree Hooked Dowel Bar
- D103A 180-degree Hooked Dowel Bar
- D104A Double-Ended Dowel Bar

HOW TO ORDER

- Configured Product. To Order:
Specify: (1) quantity, (2) name, (3) bar size (should be equivalent to the rebar being substituted for on the structural drawings), (4) dimensions required.
- Example: 650, D101 Dowel Bars, #5 Grade 400W rebar, 650mm long.

MANUFACTURER

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

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 _u
#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

- IAPMO UES Listed (ER-319)
- CAN/CSA A23.3 Type 1 & Type 2 (CSA G30.18, Grade 400W & Grade 500W)
- Ministries of Transportation of Ontario (DSM 9.65.58)
- CAN/CSA S-6 Bridge Code

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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.