

TECHNICAL DATA SHEET

DESCRIPTION

The Dayton Superior Dowel-In is used 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 (13mm) through #11 (36mm)
- 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 D103A to eliminate protruding dowels / rebar

TECHNICAL DATA

Specified or Required Dowel Bar					Recommended Dowel Bar and Dowel-In						
Bar Size Designation		Grade 60 Rebar Loads (lbs.)			System Thread Size *	DB-SAE Bar Size	Dowel-In Bar Size	System Stress Area (min.)	Completed Splice (lbs)		
US	Metri c (mm)	CN (M)	P _y	1.25 P _y					P _y	1.25 P _y	100% P _u
#4	[13]	[10]	1,200	15,000	5/8" - 11	#4	#4	0.20	1,200	15,000	16,000
#5	[16]	[15]	18,600	23,250	3/4" - 10	#5	#5	0.31	18,600	23,250	24,800
#6	[19]	[20]	26,400	33,000	7/8" - 9	#6	#6	0.44	26,400	33,000	35,200
#7	[22]	--	36,000	45,000	1" - 8	#7	#7	0.60	36,000	45,000	48,000
#8	[25]	[25]	47,400	59,250	1-1/8" - 8	#8	#8	0.79	47,400	59,250	63,200
#9	[29]	[30]	60,000	75,000	1-1/4" - 8	#9	#9	1.00	60,000	75,000	80,000
#10	[32]	--	76,200	95,250	1-7/16" - 8	#10	#10	1.27	76,200	95,250	101,600
#11	[36]	[35]	93,600	117,000	1-9/16" - 8	#11	#11	1.56	93,600	117,000	124,800

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)

RELATED PRODUCTS

- D101A Dowel Bar
- D102 90 degree Hooked Dowel-In
- D102A 90 degree Hooked Dowel Bar
- D103 180 degree Hooked Dowel-In
- D103A 180 degree Hooked Dowel Bar

- D104 Double-Ended Dowel-In
- 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 rebar, 36" long.

ORDERING INFORMATION

DOWEL-IN (D-I) - #4 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
78174	4 X 12"	0.75 LB
78176	4 X 18"	1.09 LB
78179	4 X 24"	1.43 LB
78182	4 X 30"	1.76 LB
78186	4 X 36"	2.10 LB
78158	4 X 42"	2.44 LB
78161	4 X 48"	2.77 LB
144055	4 X 54"	3.09 LB
78166	4 X 60"	3.43 LB
144056	4 X 66"	3.76 LB
78169	4 X 72"	4.09 LB
144058	4 X 84"	4.76 LB
144614	4 X 90"	5.09 LB
144059	4 X 96"	5.43 LB
144060	4 X 102"	5.76 LB
144061	4 X 108"	6.10 LB
144623	4 X 114"	6.43 LB
78155	4 X 120"	6.77 LB

DOWEL-IN (D-I) - #4 - ASTM A615/ A706 GR 60 - EPOXY

Product Code	Description	Weight
144159	4 X 12"	0.75 LB
78177	4 X 18"	1.09 LB
78180	4 X 24"	1.43 LB
78183	4 X 30"	1.76 LB
78187	4 X 36"	2.10 LB
78159	4 X 42"	2.44 LB
78162	4 X 48"	2.77 LB
144633	4 X 54"	3.09 LB
78167	4 X 60"	3.43 LB
144160	4 X 66"	3.76 LB
144161	4 X 72"	4.09 LB
144163	4 X 84"	4.76 LB
144634	4 X 90"	5.09 LB
144164	4 X 96"	5.42 LB
144165	4 X 102"	5.76 LB
144166	4 X 108"	6.10 LB
144642	4 X 114"	6.43 LB
144289	4 X 120"	6.67 LB

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DOWEL-IN (D-I) - #5 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
78243	5 X 12"	1.18 LB
78245	5 X 18"	1.70 LB
78249	5 X 24"	2.22 LB
78253	5 X 30"	2.74 LB
78257	5 X 36"	3.26 LB
78260	5 X 42"	3.78 LB
78262	5 X 48"	4.31 LB
144062	5 X 54"	4.82 LB
78233	5 X 60"	5.35 LB
144063	5 X 66"	5.87 LB
78237	5 X 72"	6.20 LB
144616	5 X 90"	7.95 LB
144066	5 X 102"	9.00 LB
144624	5 X 114"	10.03 LB
78229	5 X 120"	10.57 LB

DOWEL-IN (D-I) - #5 - ASTM A615/A706 GR 60 - EPOXY

Product Code	Description	Weight
144167	5 X 12"	1.17 LB
78246	5 X 18"	1.70 LB
78250	5 X 24"	2.22 LB
78254	5 X 30"	2.74 LB
78258	5 X 36"	3.26 LB
78261	5 X 42"	3.78 LB
78263	5 X 48"	4.31 LB
144168	5 X 54"	4.82 LB
78234	5 X 60"	5.35 LB
144169	5 X 66"	5.87 LB
144170	5 X 72"	6.39 LB
144635	5 X 90"	7.95 LB
144174	5 X 102"	9.00 LB
144643	5 X 114"	10.04 LB
144290	5 X 120"	10.56 LB

DOWEL-IN (D-I) - #6 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
144068	6 X 12"	1.71 LB
78332	6 X 18"	2.45 LB
78334	6 X 24"	3.20 LB
78338	6 X 30"	3.95 LB
78342	6 X 36"	4.70 LB
78346	6 X 42"	5.45 LB
78350	6 X 48"	6.20 LB
144069	6 X 54"	6.96 LB
144070	6 X 66"	8.46 LB
78324	6 X 72"	9.22 LB
78328	6 X 96"	12.23 LB
144072	6 X 102"	12.97 LB
144625	6 X 114"	14.47 LB
78317	6 X 120"	15.23 LB
78321	6 X 60"	7.70 LB

DOWEL-IN (D-I) - #6 - ASTM A615/A706 GR 60 - EPOXY

Product Code	Description	Weight
144176	6 X 12"	1.71 LB
78333	6 X 18"	2.45 LB
78335	6 X 24"	3.20 LB
78339	6 X 30"	3.95 LB
78343	6 X 36"	4.70 LB
78347	6 X 42"	5.45 LB
78351	6 X 48"	6.20 LB
144177	6 X 54"	6.92 LB
78322	6 X 60"	7.70 LB
144178	6 X 66"	8.46 LB
78325	6 X 72"	9.22 LB
144181	6 X 96"	12.22 LB
144182	6 X 102"	12.97 LB
144644	6 X 114"	14.47 LB

DOWEL-IN (D-I) - #7 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
144074	7 X 12"	2.34 LB

DOWEL-IN (D-I) - #6 - ASTM A615/A706 GR 60 - EPOXY

Product Code	Description	Weight
144291	6 X 120"	15.22 LB

DOWEL-IN (D-I) - #7 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
78384	7 X 18"	3.36 LB
78387	7 X 24"	4.38 LB
78389	7 X 30"	5.40 LB
78391	7 X 36"	6.42 LB
78393	7 X 42"	7.44 LB
78395	7 X 48"	8.46 LB
143565	7 X 54"	9.48 LB
78434	7 X 60"	10.50 LB
144075	7 X 66"	11.54 LB
78437	7 X 72"	12.57 LB
144076	7 X 84"	14.61 LB
144618	7 X 90"	15.63 LB
144077	7 X 96"	16.65 LB
144078	7 X 102"	17.67 LB
144079	7 X 108"	18.69 LB
144626	7 X 114"	19.72 LB
78430	7 X 120"	20.75 LB

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DOWEL-IN (D-I) - #7 - ASTM A615/A706 GR 60 - EPOXY

Product Code	Description	Weight
144184	7 X 12"	2.34 LB
143124	7 X 18"	3.36 LB
78388	7 X 24"	4.38 LB
78390	7 X 30"	5.40 LB
78392	7 X 36"	6.42 LB
78394	7 X 42"	7.44 LB
78396	7 X 48"	8.46 LB
143567	7 X 54"	9.48 LB
78435	7 X 60"	10.50 LB
144185	7 X 66"	11.54 LB
144186	7 X 72"	12.56 LB
144188	7 X 84"	14.61 LB
144637	7 X 90"	15.63 LB
144189	7 X 96"	16.65 LB
144190	7 X 102"	17.67 LB
144191	7 X 108"	18.70 LB
144645	7 X 114"	19.71 LB
144292	7 X 120"	20.74 LB

DOWEL-IN (D-I) - #8 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
144080	8 X 12"	3.09 LB
143136	8 X 18"	4.43 LB
78443	8 X 24"	5.77 LB
143156	8 X 30"	7.11 LB
78447	8 X 36"	8.45 LB
78449	8 X 42"	9.78 LB
78450	8 X 48"	11.12 LB
78484	8 X 54"	12.46 LB
78485	8 X 60"	13.80 LB
78487	8 X 72"	16.47 LB
78490	8 X 84"	19.12 LB
144619	8 X 90"	20.44 LB
144083	8 X 102"	23.11 LB
144084	8 X 108"	24.45 LB

DOWEL-IN (D-I) - #8 - ASTM A615/A706 GR 60 - EPOXY

Product Code	Description	Weight
144192	8 X 12"	3.09 LB
78444	8 X 24"	5.77 LB
143157	8 X 30"	7.11 LB
143158	8 X 36"	8.45 LB
78451	8 X 48"	11.12 LB
78488	8 X 72"	16.47 LB
144638	8 X 90"	20.44 LB
144197	8 X 102"	23.11 LB
144198	8 X 108"	24.45 LB

DOWEL-IN (D-I) - #9 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
144085	9 X 12"	3.97 LB
143179	9 X 18"	5.66 LB
143185	9 X 30"	9.06 LB
78495	9 X 36"	10.75 LB
78499	9 X 48"	14.15 LB
143560	9 X 54"	15.85 LB
78528	9 X 60"	17.55 LB
144086	9 X 66"	19.27 LB
78533	9 X 72"	20.94 LB
78535	9 X 78"	22.68 LB
78536	9 X 84"	24.38 LB
78538	9 X 96"	27.78 LB
144087	9 X 102"	29.47 LB
144088	9 X 108"	31.17 LB
144628	9 X 114"	32.87 LB
78523	9 X 120"	34.58 LB

DOWEL-IN (D-I) - #9 - ASTM A615/A706 GR 60 - EPOXY

Product Code	Description	Weight
144199	9 X 12"	3.97 LB
143186	9 X 30"	9.06 LB
143208	9 X 48"	14.15 LB
78529	9 X 60"	17.55 LB
144200	9 X 66"	19.27 LB
143225	9 X 72"	20.94 LB
144202	9 X 84"	24.37 LB
144203	9 X 96"	27.77 LB
144204	9 X 102"	29.47 LB
144647	9 X 114"	32.87 LB
144294	9 X 120"	34.57 LB

DOWEL-IN (D-I) - #10 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
144090	10 X 18"	7.26 LB
144091	10 X 24"	9.41 LB
144092	10 X 30"	11.56 LB
78561	10 X 36"	13.69 LB
144093	10 X 42"	15.87 LB
143241	10 X 54"	20.15 LB
78564	10 X 60"	22.30 LB
144094	10 X 66"	24.47 LB
78568	10 X 72"	26.61 LB
78572	10 X 84"	30.92 LB
144621	10 X 90"	33.08 LB
144096	10 X 102"	37.38 LB
144097	10 X 108"	39.53 LB
78555	10 X 120"	43.85 LB

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DOWEL-IN (D-I) - #10 - ASTM A615/A706 GR 60 - EPOXY

Product Code	Description	Weight
144207	10 X 18"	7.26 LB
144208	10 X 24"	9.41 LB
144209	10 X 30"	11.56 LB
143228	10 X 36"	13.69 LB
144210	10 X 42"	15.87 LB
143242	10 X 54"	20.15 LB
143244	10 X 60"	22.30 LB
144211	10 X 66"	24.47 LB
143246	10 X 72"	26.61 LB
144640	10 X 90"	33.08 LB
144213	10 X 102"	37.38 LB
144214	10 X 108"	39.53 LB
144295	10 X 120"	43.84 LB

DOWEL-IN (D-I) - #11 - ASTM A615/A706 GR 60 - EPOXY

Product Code	Description	Weight
144215	11 X 12"	6.42 LB
144218	11 X 30"	14.39 LB
143262	11 X 36"	16.89 LB
144219	11 X 42"	19.70 LB
143264	11 X 48"	22.21 LB
144220	11 X 54"	27.05 LB
143278	11 X 60"	27.52 LB
143280	11 X 64"	29.29 LB
143296	11 X 78"	35.50 LB
144221	11 X 84"	38.30 LB
144641	11 X 90"	40.95 LB
144222	11 X 96"	43.61 LB
144223	11 X 102"	46.27 LB
144224	11 X 108"	48.92 LB
144649	11 X 114"	51.58 LB

DOWEL-IN (D-I) - #11 - ASTM A615/A706 GR 60 - PLAIN

Product Code	Description	Weight
144098	11 X 12"	6.42 LB
144101	11 X 30"	14.39 LB
121175	11 X 36"	16.89 LB
144102	11 X 42"	19.70 LB
78598	11 X 48"	22.21 LB
144103	11 X 54"	25.02 LB
78601	11 X 60"	27.52 LB
124548	11 X 64"	29.29 LB
78602	11 X 78"	35.50 LB
144104	11 X 84"	38.30 LB
144622	11 X 90"	40.95 LB
78604	11 X 96"	43.62 LB
144105	11 X 102"	46.27 LB
144106	11 X 108"	48.92 LB
144630	11 X 114"	51.58 LB
78593	11 X 120"	54.25 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.