

## Recommended Dowel Bar Splicer and Dowel-In Sizes

Specified or Required Dowel Bar				Recommended Dowel Bar Splicer and Dowel-In						
Bar Size	Grade 60 Rebar Loads (lbs.)			System Thread Size*	DB-SAE Bar Size	Dowel-In Bar Size	System Stress Area (min.)	Completed Splice (lbs.)		
	$P_y$	$1.25 P_y$	$P_{ult}$					$P_y$	$1.25 P_y$	Minimum $P_{ult}$ Range = 95% $F_u$ Actual or 160% $F_y$ Specified**
#4 [#13]	12,000	15,000	18,000	5/8"-11	#4	#4	.20	12,000	15,000	19,200
#5 [#16]	18,600	23,250	27,900	3/4"-10	#5	#5	.31	18,600	23,250	29,760
#6 [#19]	26,400	33,000	39,600	7/8"-9	#6	#6	.44	26,400	33,000	42,400
#7 [#22]	36,000	45,000	54,000	1"-8	#7	#7	.60	36,000	45,000	57,600
#8 [#25]	47,400	59,250	71,100	1-1/8"-8	#8	#8	.79	47,400	59,250	75,840
#9 [#29]	60,000	75,000	90,000	1-1/4"-8	#9	#9	1.00	60,000	75,000	96,000
#10 [#32]	76,200	95,250	114,000	1-7/16"-8	#10	#10	1.27	76,200	95,250	121,920
#11 [#36]	93,600	117,000	140,400	1-9/16"-8	#11	#11	1.56	93,600	117,000	149,760

$P_y$  = Minimum Yield Strength of bar.

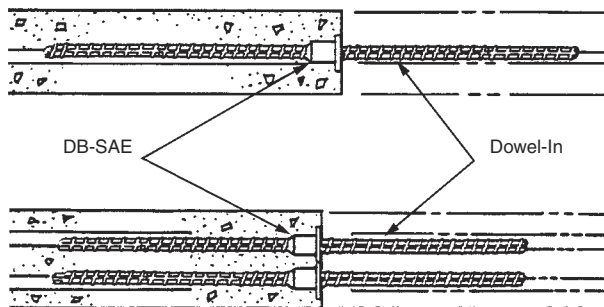
\*5/8", 3/4", 7/8" and 1" sizes have UNC Threads. 1-1/8" and larger sizes are equipped with UN Threads.

\*\*Loads shown based on 160%  $f_y$  specified.

## Required Development and Lap Lengths for Grade 60, Uncoated Bottom Reinforcement in Normal Weight Concrete

Application	$f'_c$ psi	#6 and Smaller Bars	#7 and Larger Bars
Clear spacing of bars being developed or spliced not less than $d_b$ , clear cover not less than $d_b$ , and beam stirrups or column ties throughout $l_d$ not less than the code minimum or Clear spacing of bars being developed or spliced not less than $2d_b$ and clear cover not less than $d_b$	3,000	44 $d_b$	55 $d_b$
	4,000	38 $d_b$	47 $d_b$
	5,000	34 $d_b$	42 $d_b$
	6,000	31 $d_b$	39 $d_b$
	8,000	27 $d_b$	34 $d_b$
	10,000	24 $d_b$	30 $d_b$
Other cases	3,000	66 $d_b$	82 $d_b$
	4,000	57 $d_b$	71 $d_b$
	5,000	51 $d_b$	64 $d_b$
	6,000	46 $d_b$	58 $d_b$
	8,000	40 $d_b$	50 $d_b$
	10,000	36 $d_b$	45 $d_b$

## Typical Threaded Splicing Applications



Typical Dowel Bar Splicer/Dowel-In Applications

