

Dowel Bar Splicer System

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.)		
US	Metric (mm)	CN (M)	P _y	1.25 P _y	P _{ult}					P _y	1.25 P _y	Minimum P _{ult} Range = 95% F _y Actual or 160% F _y Specified**
#4	[13]	[10]	12,000	15,000	18,000	5/8" - 11	#4	#4	.20	12,000	15,000	19,200
#5	[16]	[15]	18,600	23,250	27,900	3/4" - 10	#5	#5	.31	18,600	23,250	29,760
#6	[19]	[20]	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]	[25]	47,400	59,250	71,100	1-1/8" - 8	#8	#8	.79	47,400	59,250	75,840
#9	[29]	[30]	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]	[35]	93,600	117,000	140,400	1-9/16" - 8	#11	#11	1.56	93,600	117,000	149,760

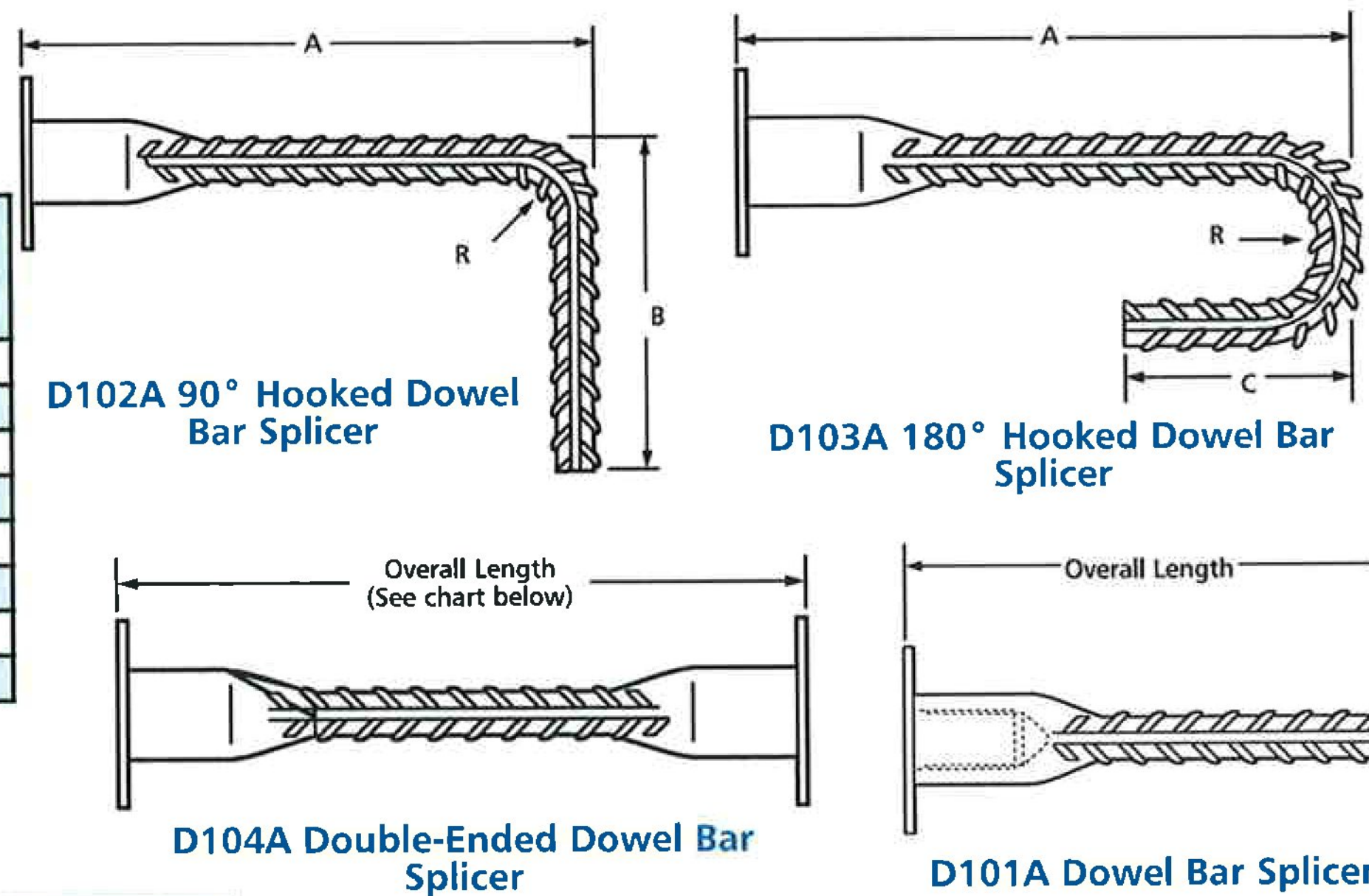
P_y=Minimum Yield Strength of bar.

*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.

Bar Size Designation			Bending DB or DI 90° only Minimum "A" Dimension
US	Metric (mm)	CN (M)	
#4	[13]	[10]	4" *
#5	[16]	[15]	5" *
#6	[19]	[20]	6" *
#7	[22]	—	7" *
#8	[25]	[25]	8" *
#9	[29]	[30]	9" *
#10	[32]	—	10" *
#11	[36]	[35]	11" *

* Tolerance on Bending Plus 0 / Minus 1" on "A" Dimension



Bar Size Designation			D104A Double-Ended Min. Lengths	Tolerance Overall Length
US	Metric (mm)	CN (M)		
#4	[13]	[10]	12" O.A.	+0 - 3/8"
#5	[16]	[15]	12" O.A.	+0 - 3/8"
#6	[19]	[20]	14" O.A.	+0 - 1/2"
#7	[22]	—	16" O.A.	+0 - 5/8"
#8	[25]	[25]	16" O.A.	+0 - 3/4"
#9	[29]	[30]	16" O.A.	+0 - 1"
#10	[32]	—	16" O.A.	+0 - 1"
#11	[36]	[35]	16" O.A.	+0 - 1"

** Based on barrels forged on each end. For lengths less than minimum, please check with manufacturing facility. We may supply forged DB one end, DI with Coupler and nailer washer other end.

See D108 Headed Dowel Bar Splicer.

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:
600, D101A Dowel Bar Splicers, #5 rebar, 36" long.

Vermont Agency of Transportation
RECEIVED

CK'D BY CLB OK'D BY CWC

February 16, 2018

RESUBMIT No Approved
BY C. CARLSON DATE 02/16/18

Threaded Splicing Systems