

## Minimum Length of Lap Splices\* (Centered Bars)

Bar Size	Diameter (d, in.)	2005 MSJC*** Allowable Stress Design		2005 MSJC*** Strength Design	2006 MBC Allowable Stress Design (48d, in.)**	2006 MBC*** Strength Design	
		8" CMU	12" CMU	8" CMU		8" CMU	12" CMU
#3	3/8	15.1	15.1	15.1	18	15.1	15.1
#4	4/8	20.1	20.1	20.1	24	20.1	20.1
#5	5/8	25.2	25.2	25.2	30	25.2	25.2
#6	6/8	42.8	39.3	42.8	36	42.8	39.3
#7	7/8	59.4	45.8	59.4	42	59.4	45.8
#8	8/8	91.2	60.4	91.2	48	91.2	60.4

\* Assume bar placed in center, Grade 60 steel, 48" o.c. spacing, and  $f'_m=1500$ psi

\*\* Not less than 12 inches and in no case shall the length of lapped splice less than 40 bar diameters. Where design tensile stresses in the reinforcement are greater than 80% of  $F_s$ , lap length shall be increased not less than 50% of the minimum required length.

\*\*\* Not less than 12 inches.

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