



## Lamina<sup>INC</sup> Marsh Mellow<sup>®</sup> Springs

### 4" O.D. x 1" I.D.

Lamina Order Number	MM400-250	MM400-300	MM400-325	MM400-350	MM400-400	MM400-450	MM400-500							
Free Length Inch	2.50	3.00	3.25	3.50	4.00	4.50	5.00							
Minimum Compressed Length (Free Length - Max. Compression)	1.50	1.80	1.95	2.10	2.40	2.70	3.00							
Maximum Compressed Dia. (@ Max. Compression)	5.12	5.12	5.12	5.12	5.12	5.12	5.12							
Maximum Compression	1.00	1.20	1.30	1.40	1.60	1.80	2.00							
Total Spring Force Per 1/8" Compression Pounds	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force
	.25	1,600	.25	1,300	.25	1,200	.25	1,000	.25	900	.25	750	.25	700
	.50	3,900	.50	3,000	.50	2,600	.50	2,200	.50	2,000	.50	1,900	.50	1,500
	.75	7,400	.75	5,300	.75	4,300	.75	3,900	.75	3,300	.75	2,800	.75	2,500
	1.00	16,000	1.00	9,500	1.00	6,900	1.00	6,000	1.00	4,800	1.00	4,100	1.00	3,500
			1.20	15,000	1.25	13,000	1.25	9,800	1.25	7,100	1.25	5,700	1.25	4,700
					1.30	16,000	1.40	14,500	1.50	11,500	1.50	8,200	1.50	6,400
									1.60	15,500	1.75	12,500	1.75	9,000
											1.80	14,200	2.00	15,000

### 4" O.D. x 1" I.D. (MAX. LENGTH = 30 IN.)

Lamina Order Number	MM400-550	MM400-600	MM400-650	MM400-700	MM400-750	MM400-800						
Free Length Inch	5.50	6.00	6.50	7.00	7.50	8.00						
Minimum Compressed Length (Free Length - Max. Compression)	3.30	3.60	3.90	4.20	4.50	4.80						
Maximum Compressed Dia. (@ Max. Compression)	5.12	5.12	5.12	5.12	5.12	5.12						
Maximum Compression	2.20	2.40	2.60	2.80	3.00	3.20						
Total Spring Force Per 1/8" Compression Pounds	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force
	.25	550	.25	500	.25	400	.25	300	.25	200	.25	200
	.50	1,400	.50	1,200	.50	1,100	.50	800	.50	800	.50	700
	.75	2,200	.75	2,000	.75	1,800	.75	1,500	.75	1,400	.75	1,300
	1.00	3,100	1.00	2,800	1.00	2,600	1.00	2,200	1.00	2,000	1.00	1,800
	1.25	4,200	1.25	3,700	1.25	3,300	1.25	2,800	1.25	2,600	1.25	2,400
	1.50	5,400	1.50	4,700	1.50	4,200	1.50	3,600	1.50	3,300	1.50	3,000
	1.75	7,100	1.75	6,100	1.75	5,400	1.75	4,500	1.75	4,100	1.75	3,700
	2.00	10,000	2.00	8,000	2.00	6,800	2.00	5,500	2.00	4,900	2.00	4,500
	2.20	14,000	2.25	11,000	2.25	8,900	2.25	6,800	2.25	6,000	2.25	5,300
			2.40	15,000	2.50	11,800	2.50	8,800	2.50	7,400	2.50	6,500
					2.60	13,800	2.75	13,500	2.75	9,500	2.75	8,000
							2.80	15,000	3.00	13,200	3.00	10,300
										3.20	14,500	

### 5" O.D. x 1" I.D. (MAX. LENGTH = 30 IN.)

Lamina Order Number	MM500-250	MM500-300	MM500-325	MM500-350	MM500-400	MM500-450	MM500-500	MM500-550					
Free Length Inch	2.50	3.00	3.25	3.50	4.00	4.50	5.00	5.50					
Minimum Compressed Length (Free Length - Max. Compression)	1.50	1.80	1.95	2.10	2.40	2.70	3.00	3.30					
Maximum Compressed Dia. (@ Max. Compression)	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40					
Maximum Compression	1.00	1.20	1.30	1.40	1.60	1.80	2.00	2.20					
Total Spring Force Per 1/8" Compression Pounds	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	
	.25	3,300	.25	2,900	.25	2,600	.25	2,500	.25	1,800	.25	1,500	
	.50	9,000	.50	5,900	.50	5,300	.50	4,900	.50	3,700	.50	3,200	
	.75	13,500	.75	9,800	.75	8,700	.75	8,000	.75	6,000	.75	5,100	
	1.00	24,000	1.00	17,200	1.00	14,400	1.00	12,300	1.00	8,700	1.00	7,400	
			1.20	27,000	1.25	23,000	1.25	20,800	1.25	12,700	1.25	10,200	
					1.30	24,500	1.40	26,000	1.50	20,500	1.50	14,800	
									1.60	24,500	1.75	22,000	
										1.80	24,500	2.00	24,500
											2.00	24,500	
											2.20	24,000	