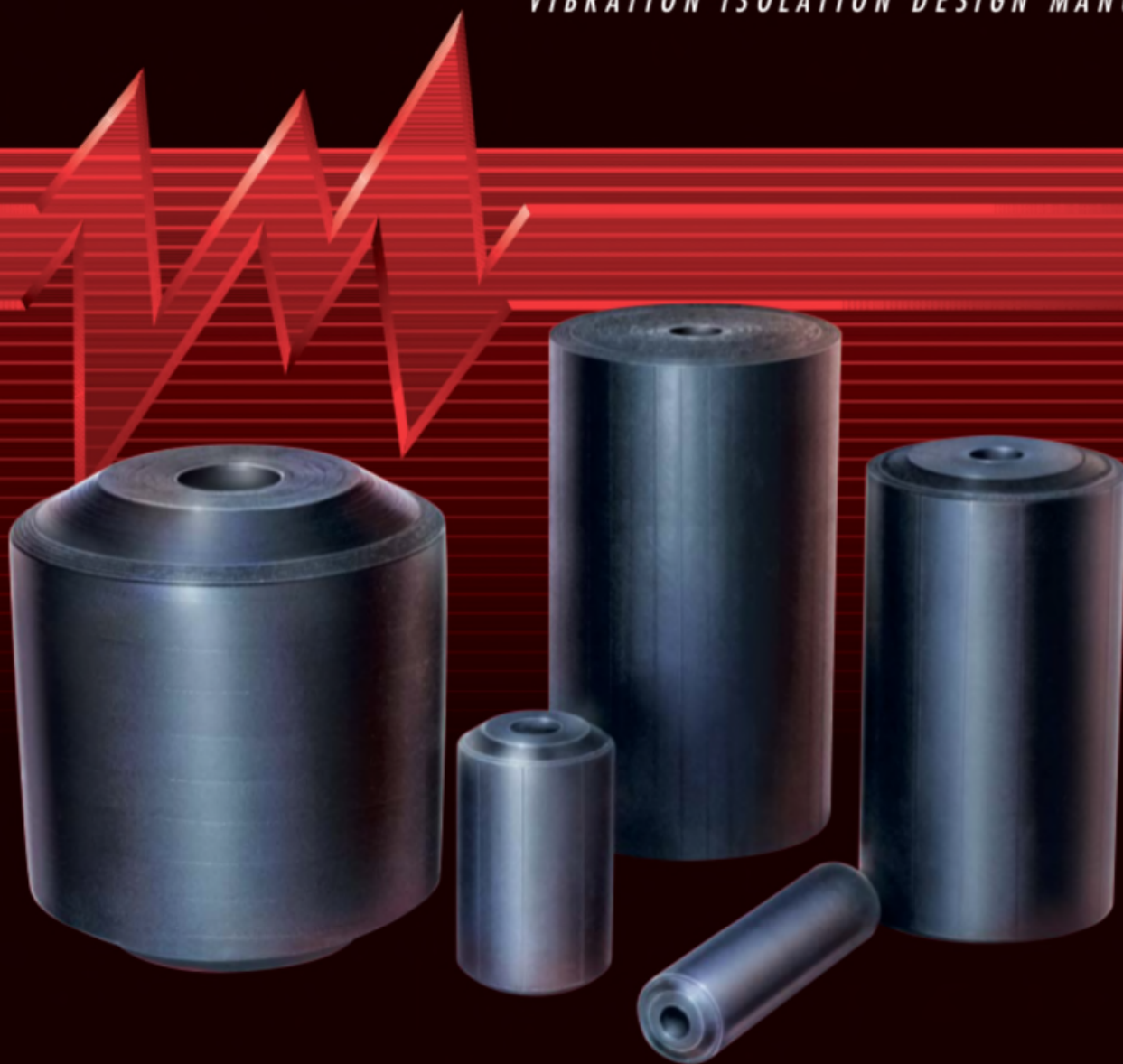


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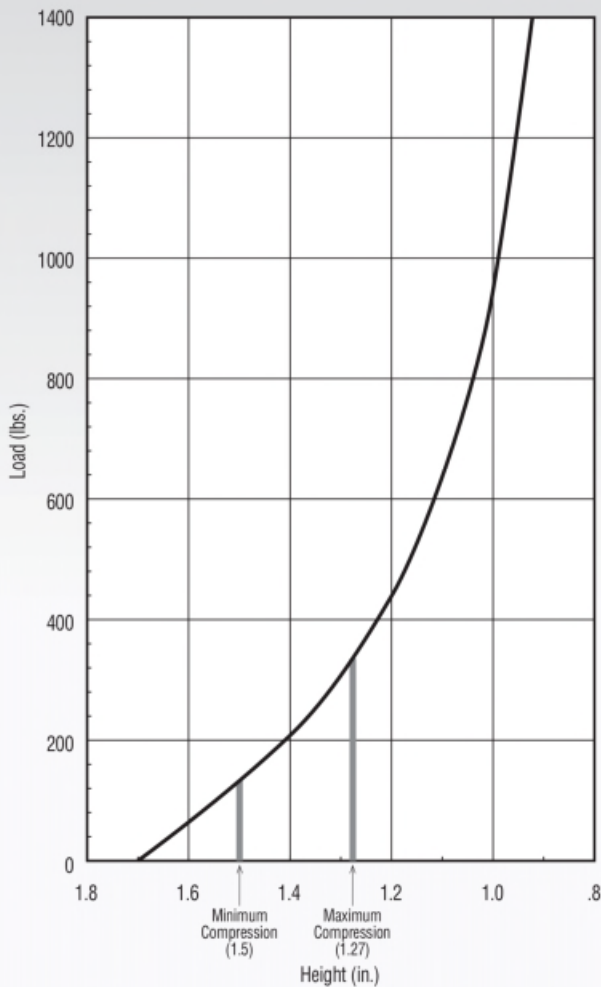
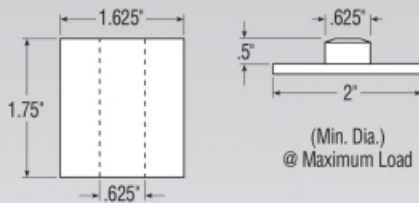
0216

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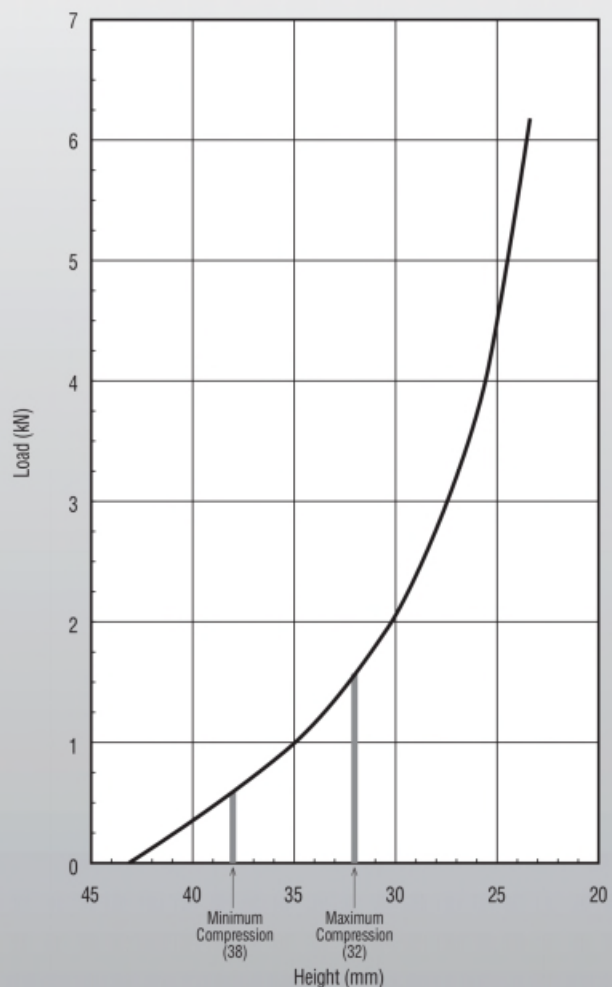
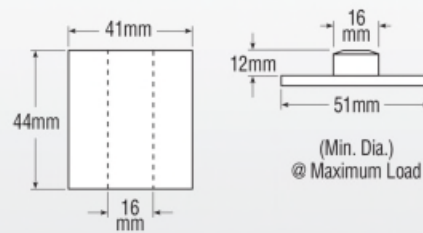
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	145	210	245	280	315
Height (in.)	1.49	1.40	1.36	1.31	1.27
Rate (lbs./in.)	705	760	783	805	826
Effective Deflection (in.)	0.2	0.3	0.3	0.3	0.4
Natural Freq. (CPM)	414	358	336	319	304
Maximum OD (in.)	2.5				
Weight (lbs.)	0.12				



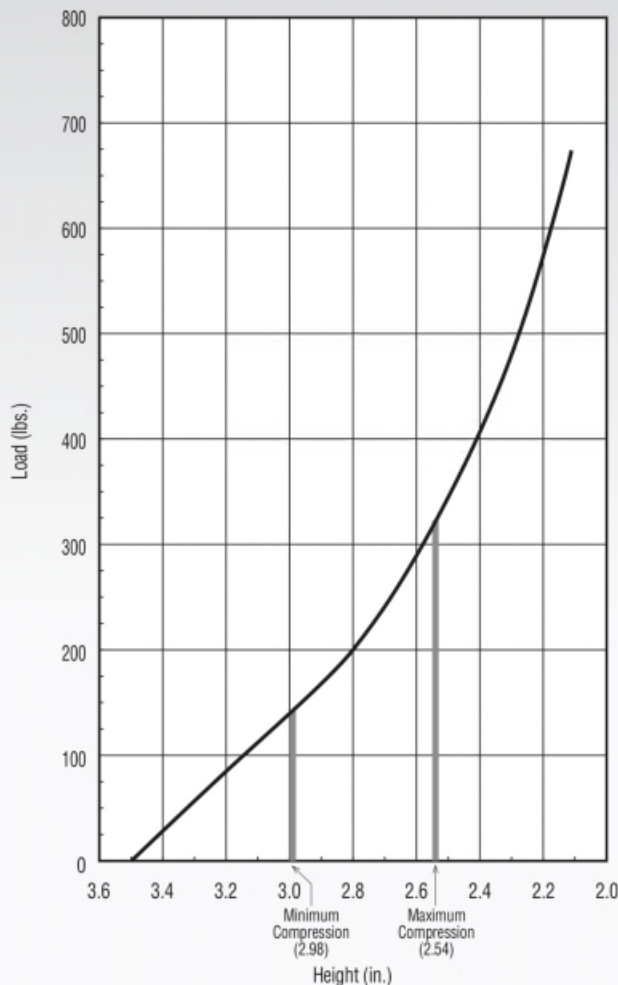
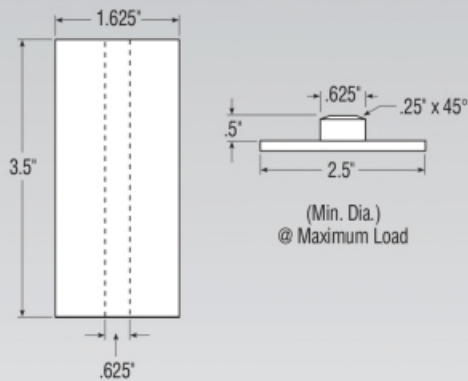
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	0.64	0.93	1.09	1.24	1.40
Height (mm)	38	36	35	33	32
Rate (kN/m)	123	132	137	140	144
Effective Deflection (mm)	5	8	8	8	10
Natural Freq. (Hz)	6.90	5.97	5.60	5.32	5.07
Maximum OD (mm)	64				
Weight (kg)	0.05				

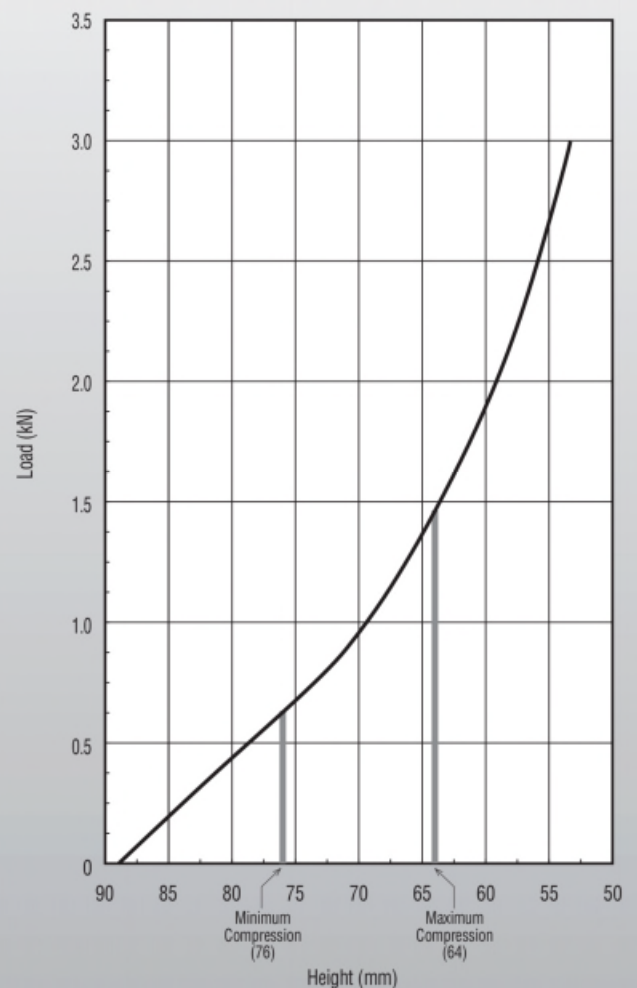
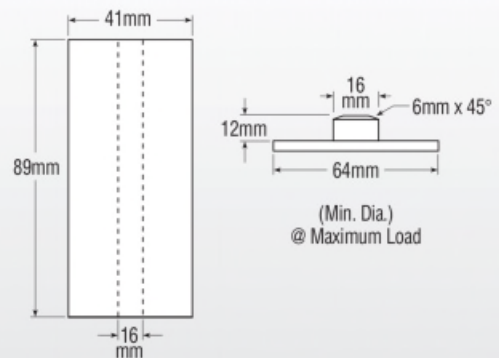


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	140	205	240	275	320
Height (in.)	2.98	2.80	2.71	2.63	2.54
Rate (lbs./in.)	310	360	420	500	580
Effective Deflection (in.)	0.45	0.57	0.57	0.55	0.55
Natural Freq. (CPM)	280	249	249	253	253
Maximum OD (in.)	2.5				
Weight (lbs.)	0.24				

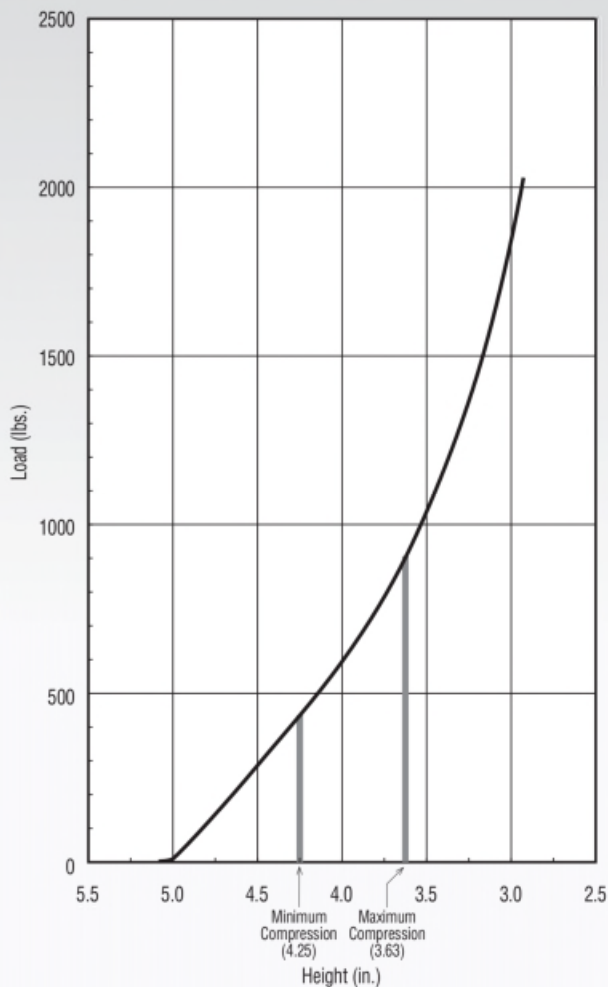
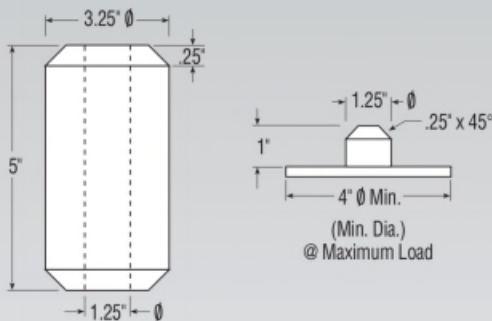

METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	0.62	0.91	1.07	1.22	1.42
Height (mm)	76	71	69	67	64
Rate (kN/m)	54	63	73	87	101
Effective Deflection (mm)	11	14	15	14	14
Natural Freq. (Hz)	4.66	4.15	4.15	4.22	4.22
Maximum OD (mm)	64				
Weight (kg)	0.11				



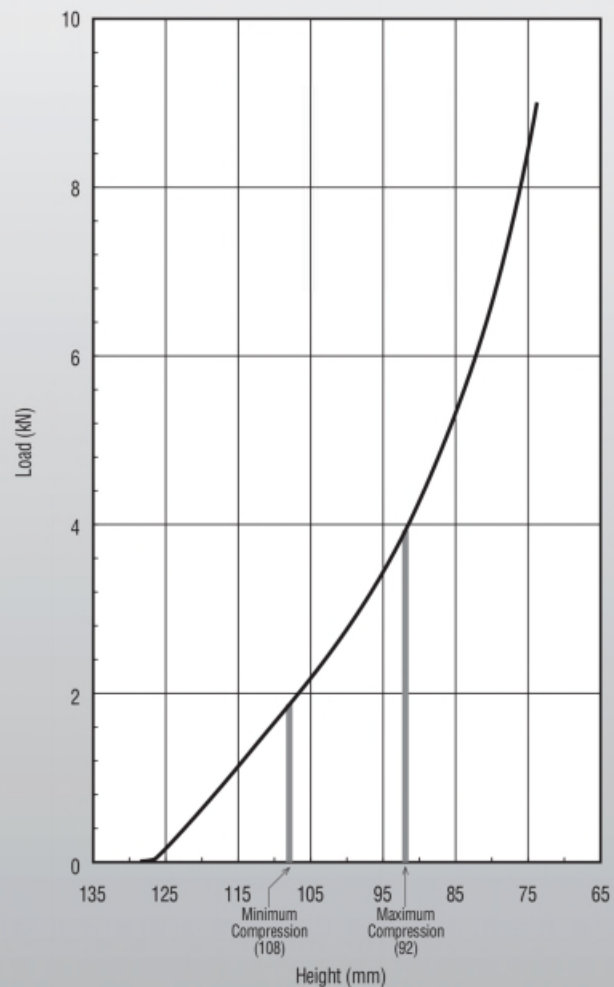
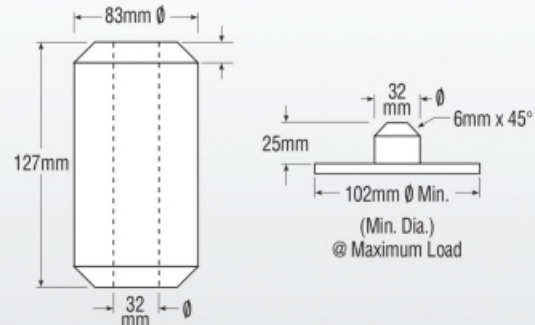
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	400	595	685	800	900
Height (in.)	4.3	4.0	3.9	3.8	3.6
Rate (lbs./in.)	716	790	822	852	880
Effective Deflection (in.)	0.6	0.8	0.8	0.9	1.0
Natural Freq. (CPM)	252	217	206	194	186
Maximum OD (in.)	4.1				
Weight (lbs.)	1.22				



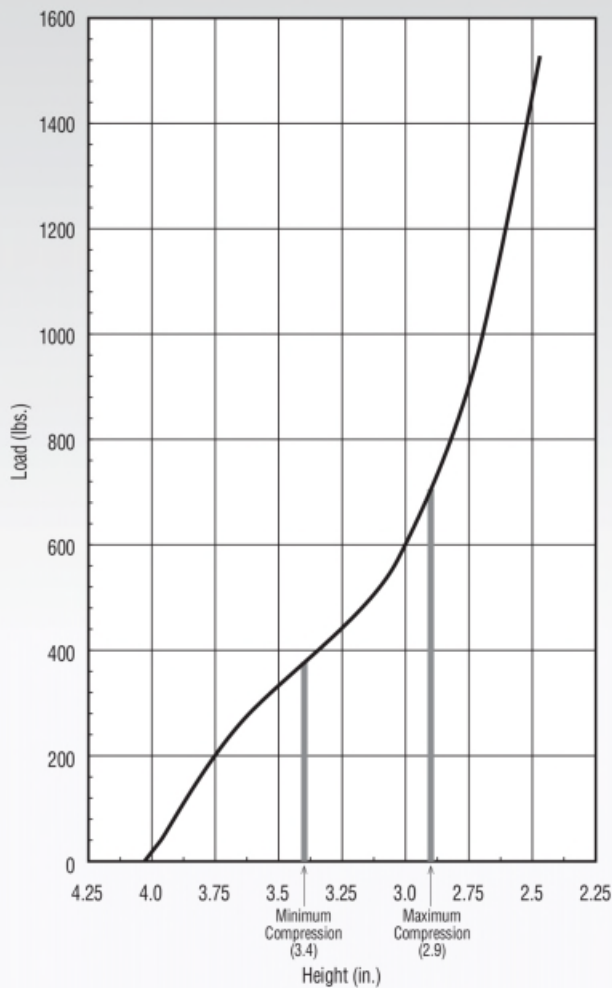
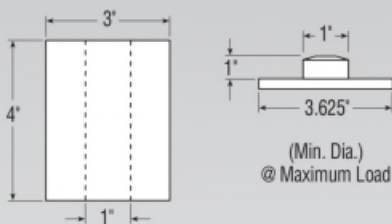
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	1.78	2.64	3.04	3.56	4.00
Height (mm)	109	102	99	97	91
Rate (kN/m)	125	138	144	149	154
Effective Deflection (mm)	15	20	20	23	25
Natural Freq. (Hz)	4.20	3.62	3.43	3.23	3.10
Maximum OD (mm)	104				
Weight (kg)	0.56				

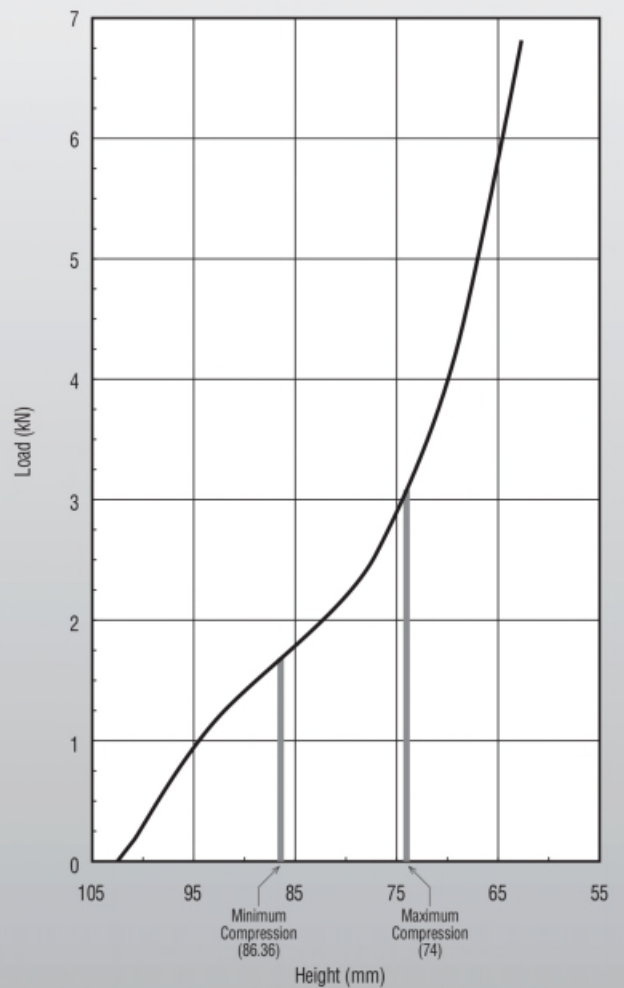
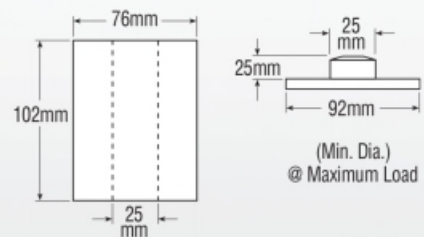


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	350	440	500	580	680
Height (in.)	3.4	3.2	3.1	3.0	2.9
Rate (lbs./in.)	525	531	695	892	1122
Effective Deflection (in.)	0.7	0.8	0.7	0.7	0.6
Natural Freq. (CPM)	230	207	222	233	242
Maximum OD (in.)	3.2	3.3	3.4	3.4	3.5
Weight (lbs.)	0.93				


METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	1.56	1.96	2.22	2.58	3.02
Height (mm)	86	81	79	76	74
Rate (kN/m)	92	93	122	156	196
Effective Deflection (mm)	18	20	18	18	15
Natural Freq. (Hz)	3.85	3.45	3.70	3.88	4.03
Maximum OD (mm)	81	84	86	86	89
Weight (kg)	0.42				



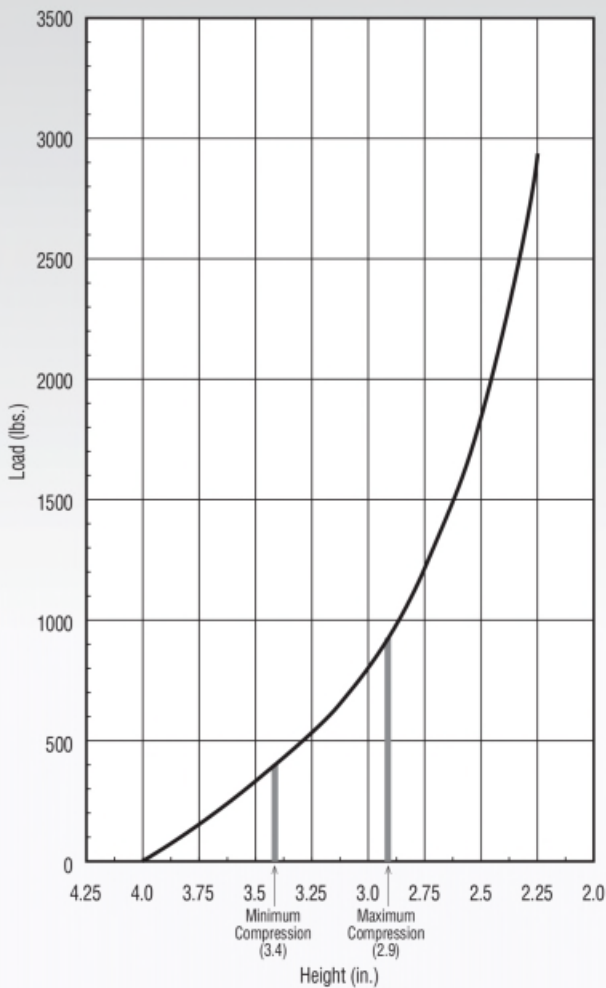
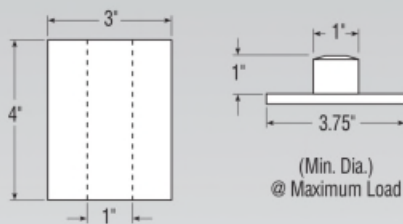
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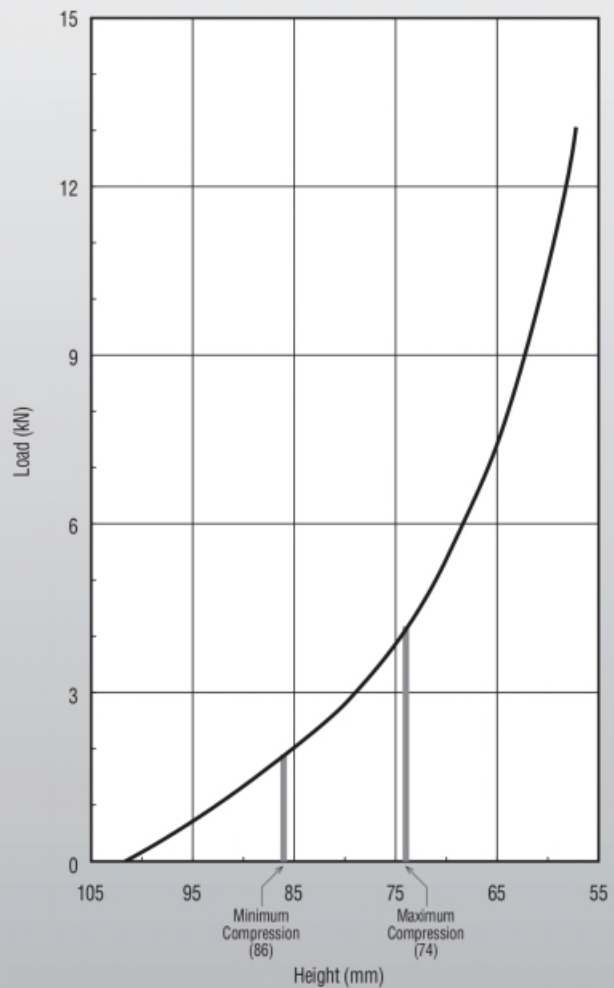
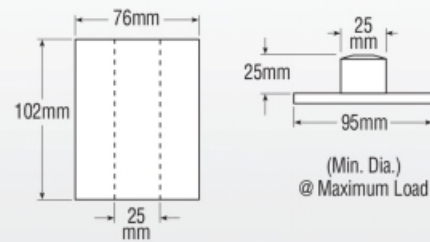
IMPERIAL

Compression (%)	15	20	22.5	25	27.5
Load (lbs.)	420	600	690	790	910
Height (in.)	3.4	3.2	3.1	3	2.9
Rate (lbs./in.)	720	840	980	1080	1340
Effective Deflection (in.)	0.58	0.71	0.70	0.73	0.68
Natural Freq. (CPM)	246	222	224	220	228
Maximum OD (in.)	3.28	3.3	3.35	3.4	3.46
Weight (lbs.)	0.94				



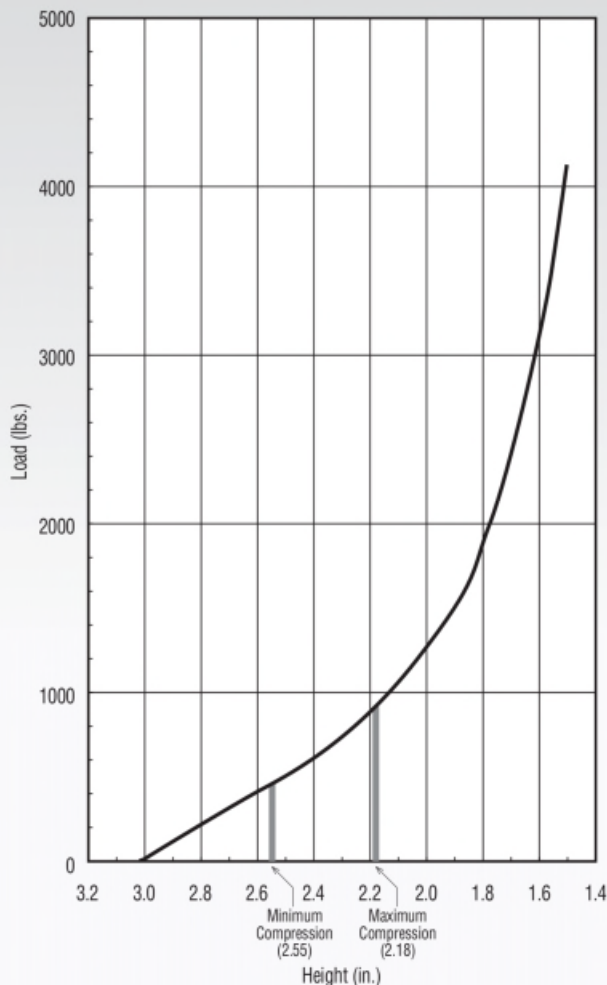
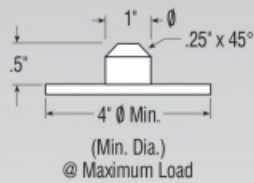
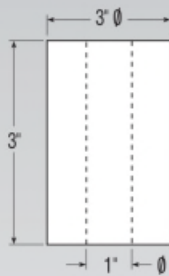
METRIC

Compression (%)	15	20	22.5	25	27.5
Load (kN)	1.87	2.67	3.07	3.51	4.04
Height (mm)	86	81	79	76	74
Rate (kN/m)	126	147	171	189	234
Effective Deflection (mm)	15	18	18	19	17
Natural Freq. (Hz)	4.10	3.71	3.73	3.66	3.80
Maximum OD (mm.)	83	84	85	86	88
Weight (kg)	0.43				

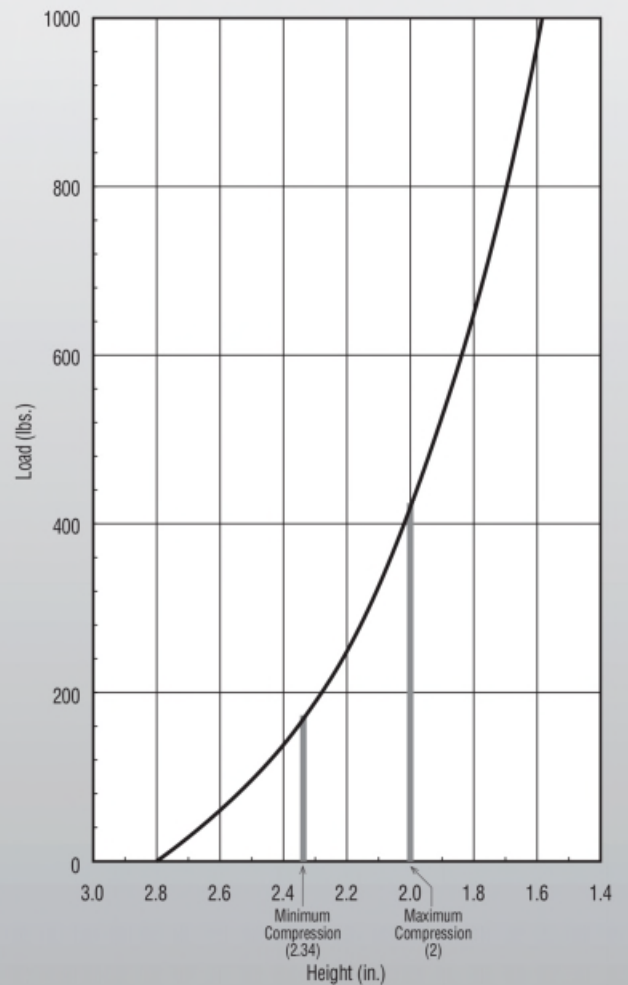
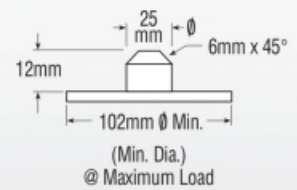
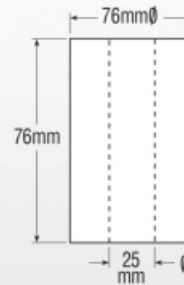


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	475	650	725	825	925
Height (in.)	2.6	2.4	2.33	2.25	2.2
Rate (lbs./in.)	1314	1085	1138	1322	1591
Effective Deflection (in.)	0.4	0.6	0.6	0.6	0.6
Natural Freq. (CPM)	313	243	236	238	247
Maximum OD (in.)	4.1				
Weight (lbs.)	0.68				


METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	2.11	2.89	3.22	3.67	4.11
Height (mm)	66	61	59	57	56
Rate (kN/m)	230	190	199	231	278
Effective Deflection (mm)	10	15	15	15	15
Natural Freq. (Hz)	5.22	4.05	3.93	3.97	4.12
Maximum OD (mm)	104				
Weight (kg)	0.31				



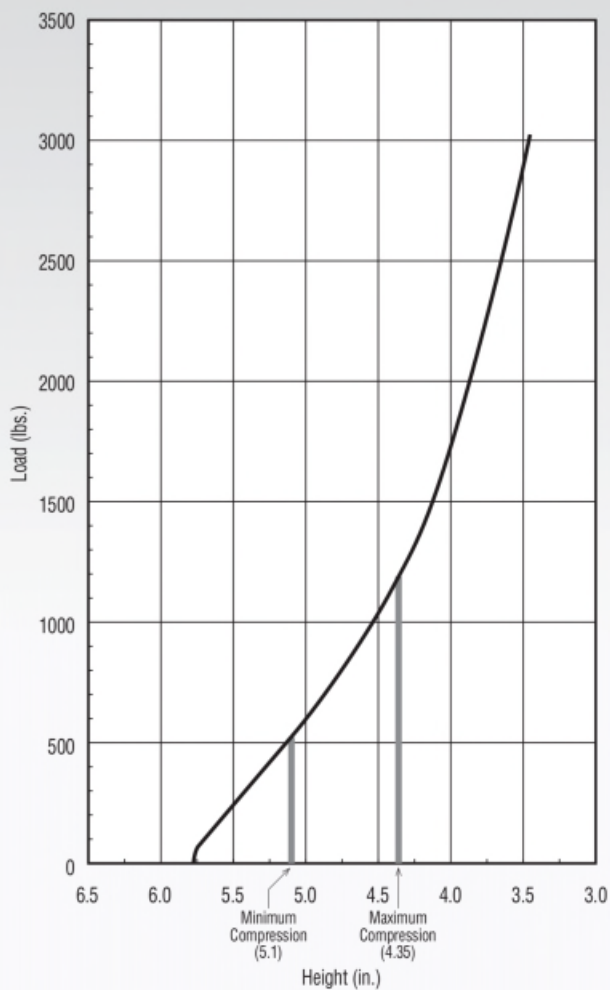
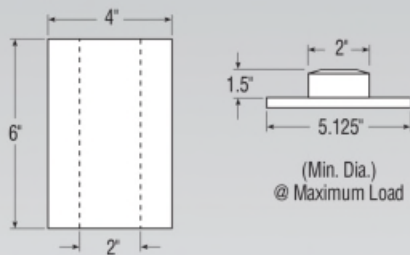
0180

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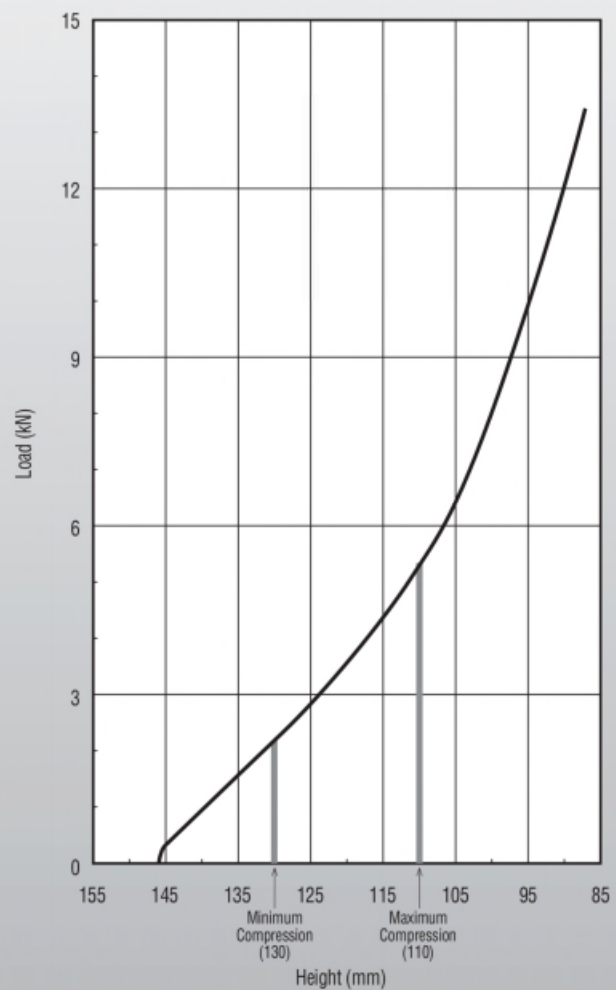
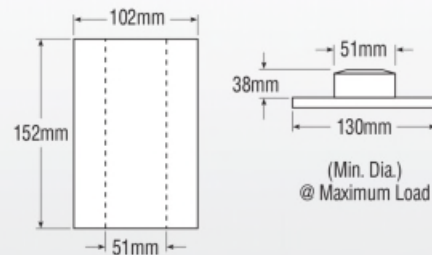
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	530	750	870	990	1100
Height (in.)	5.1	4.8	4.7	4.5	4.4
Rate (lbs./in.)	714	759	779	796	813
Effective Deflection (in.)	0.7	1.0	1.1	1.2	1.4
Natural Freq. (CPM)	218	189	178	169	162
Maximum OD (in.)	4.3	4.4	4.5	4.5	4.7
Weight (lbs.)	2.08				



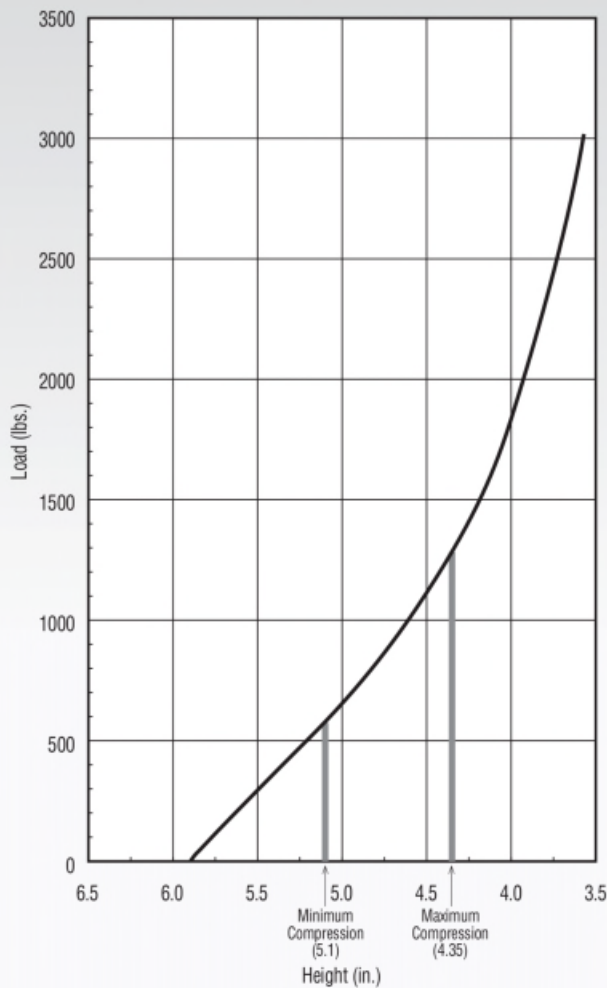
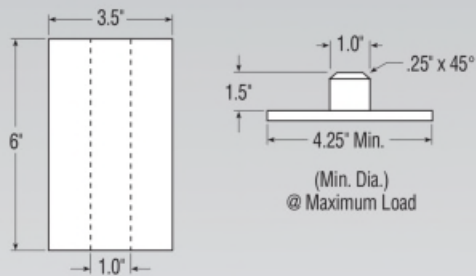
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	2.36	3.33	3.87	4.40	4.89
Height (mm)	130	122	119	114	112
Rate (kN/m)	125	133	136	139	142
Effective Deflection (mm)	18	25	28	30	36
Natural Freq. (Hz)	3.63	3.15	2.97	2.82	2.70
Maximum OD (mm)	109	112	114	114	119
Weight (kg)	0.95				

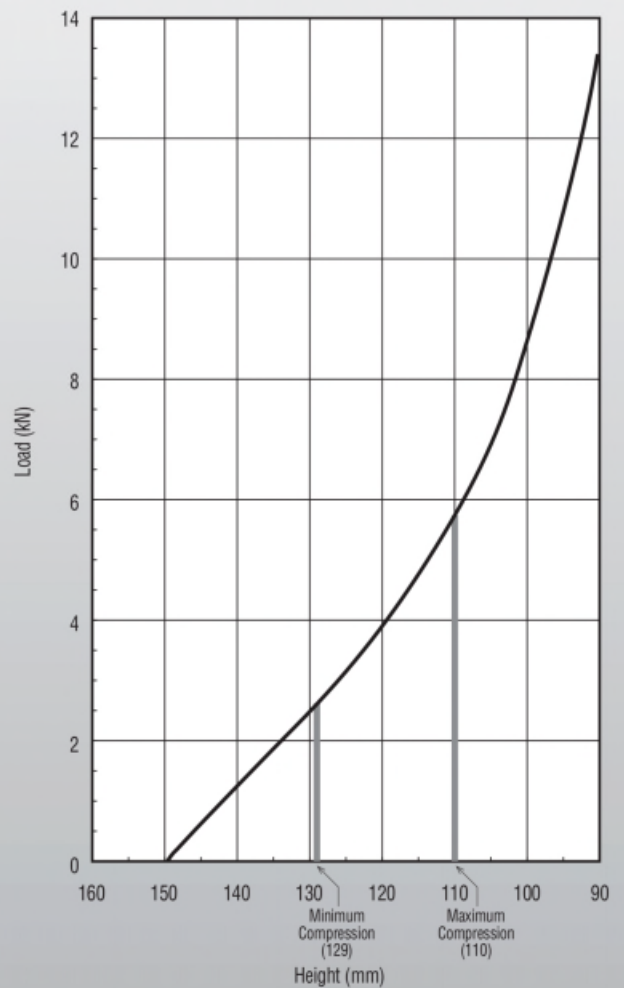
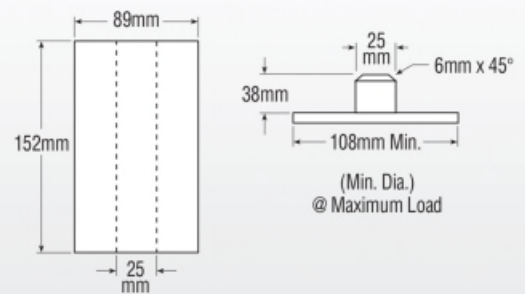


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	570	825	950	1100	1225
Height (in.)	5.1	4.8	4.7	4.5	4.4
Rate (lbs./in.)	804	869	897	923	947
Effective Deflection (in.)	0.7	0.9	1.1	1.2	1.3
Natural Freq. (CPM)	223	193	183	172	165
Maximum OD (in.)	4.2				
Weight (lbs.)	1.90				


METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	2.53	3.67	4.22	4.89	5.44
Height (mm)	130	122	119	114	112
Rate (kN/m)	141	152	157	162	166
Effective Deflection (mm)	18	23	28	30	33
Natural Freq. (Hz)	3.72	3.22	3.05	2.87	2.75
Maximum OD (mm)	107				
Weight (kg)	0.87				



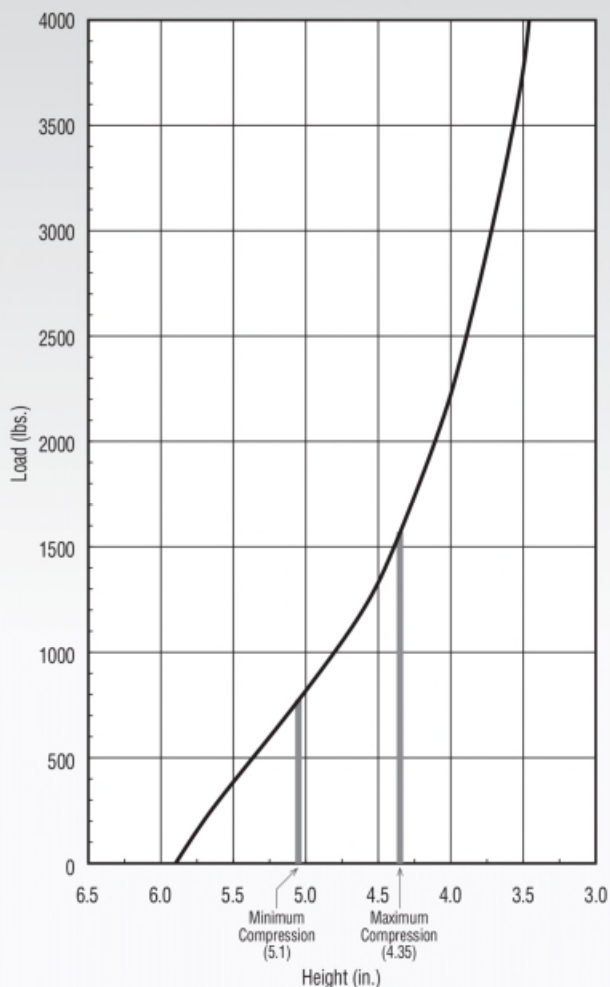
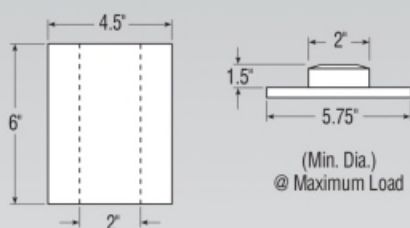
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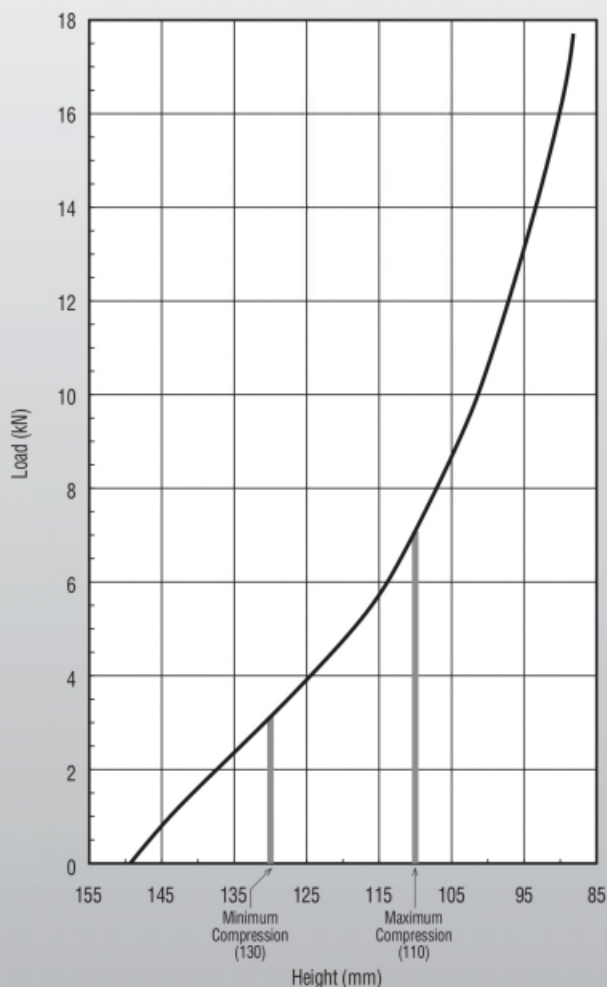
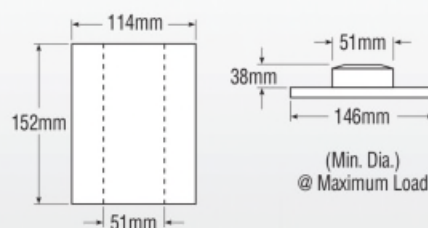
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	720	1080	1270	1480	1690
Height (in.)	5.1	4.8	4.7	4.5	4.4
Rate (lbs./in.)	1126	1266	1328	1387	1442
Effective Deflection (in.)	0.6	0.9	1.0	1.1	1.2
Natural Freq. (CPM)	235	204	192	182	174
Maximum OD (in.)	4.9	5.0	5.1	5.1	5.2
Weight (lbs.)	2.65				



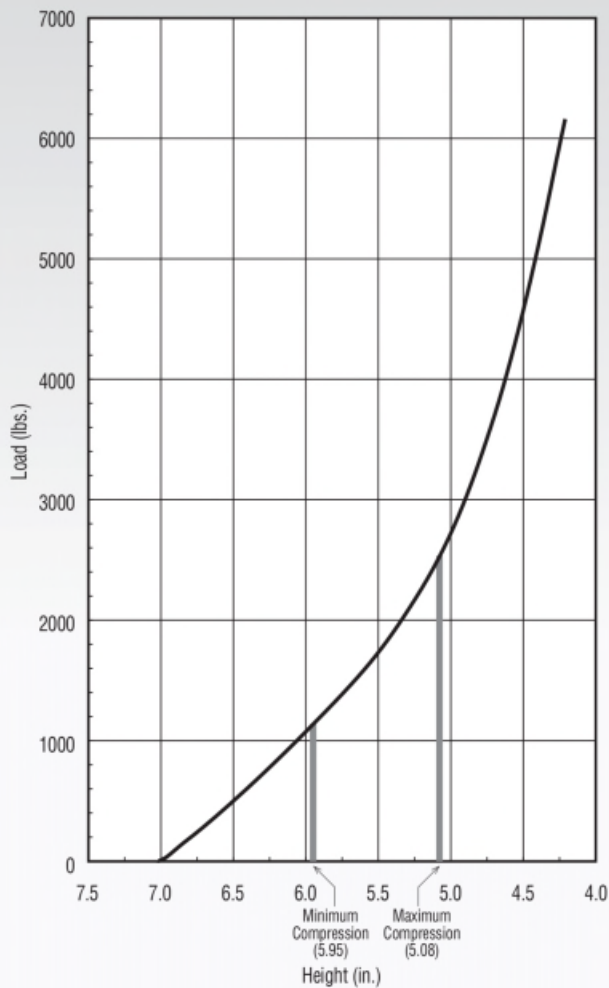
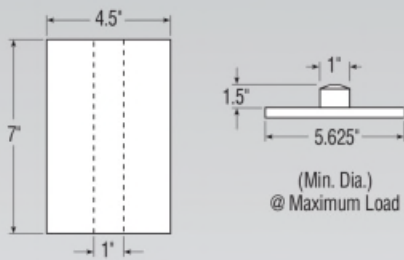
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	3.20	4.80	5.64	6.58	7.51
Height (mm)	130	122	119	114	112
Rate (kN/m)	197	222	232	243	252
Effective Deflection (mm)	15	23	25	28	30
Natural Freq. (Hz)	3.92	3.40	3.20	3.03	2.90
Maximum OD (mm)	124	127	130	130	132
Weight (kg)	1.21				

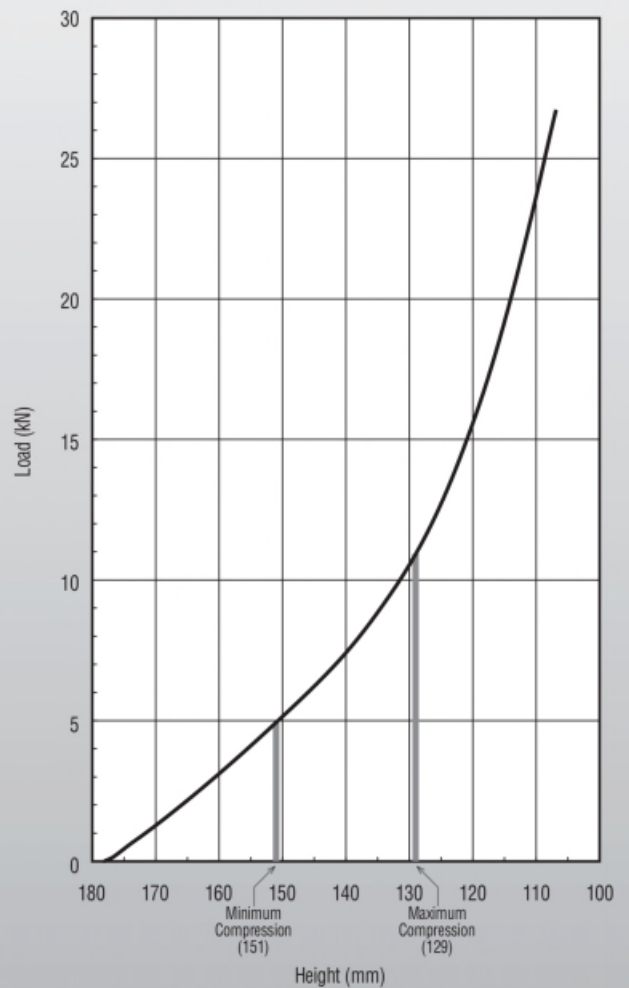
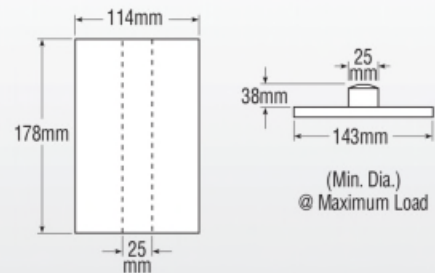


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	1120	1630	1950	2220	2550
Height (in.)	6.0	5.6	5.4	5.3	5.1
Rate (lbs./in.)	1442	1598	1667	1730	1790
Effective Deflection (in.)	0.8	1.0	1.2	1.3	1.4
Natural Freq. (CPM)	213	186	174	166	158
Maximum OD (in.)	4.8	4.9	5.0	5.1	5.2
Weight (lbs.)	3.76				


METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	4.98	7.24	8.67	9.87	11.33
Height (mm)	152	142	137	135	130
Rate (kN/m)	252	280	292	303	313
Effective Deflection (mm)	20	25	30	33	36
Natural Freq. (Hz)	3.55	3.10	2.90	2.77	2.63
Maximum OD (mm)	122	124	127	130	132
Weight (kg)	1.71				



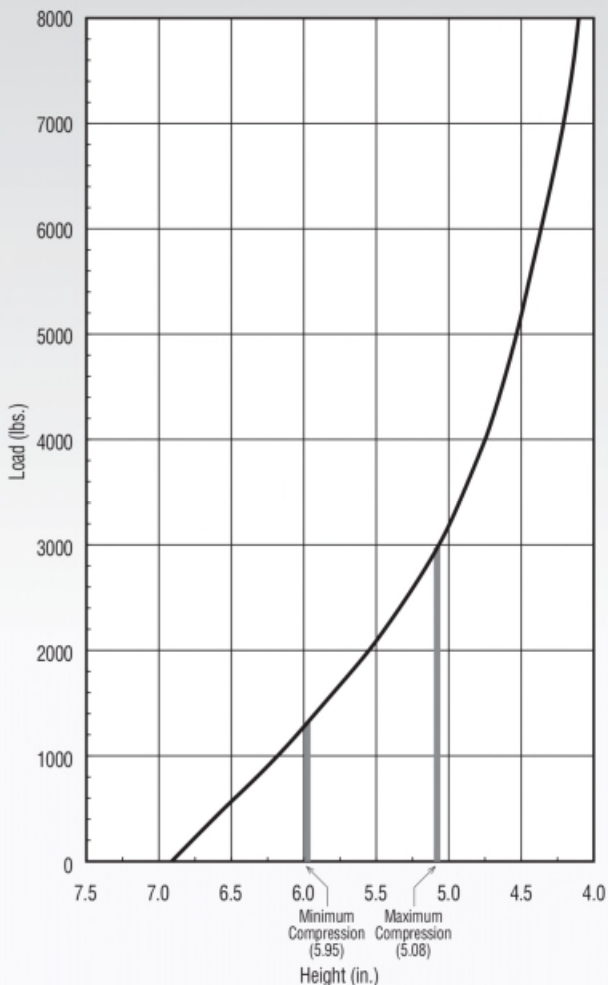
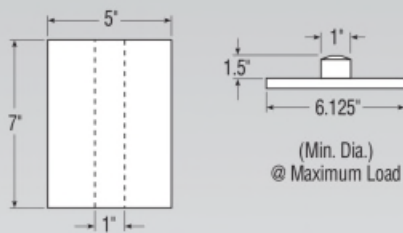
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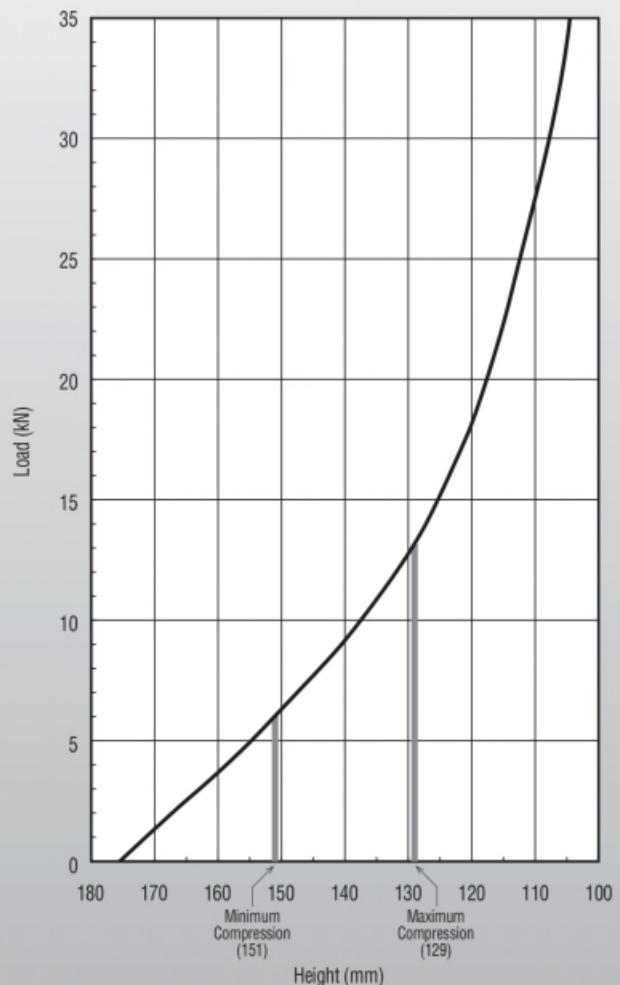
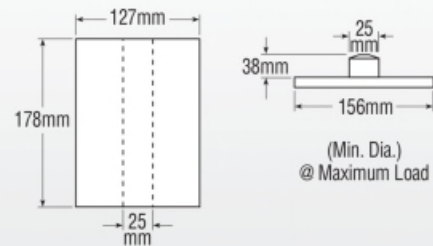
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	1400	1770	2100	2480	2860
Height (in.)	5.95	5.6	5.4	5.3	5.1
Rate (lbs./in.)	1743	1886	1998	2103	2203
Effective Deflection (in.)	0.8	0.9	1.1	1.2	1.3
Natural Freq. (CPM)	210	194	183	173	165
Maximum OD (in.)	5.2	5.4	5.5	5.6	5.7
Weight (lbs.)	4.78				



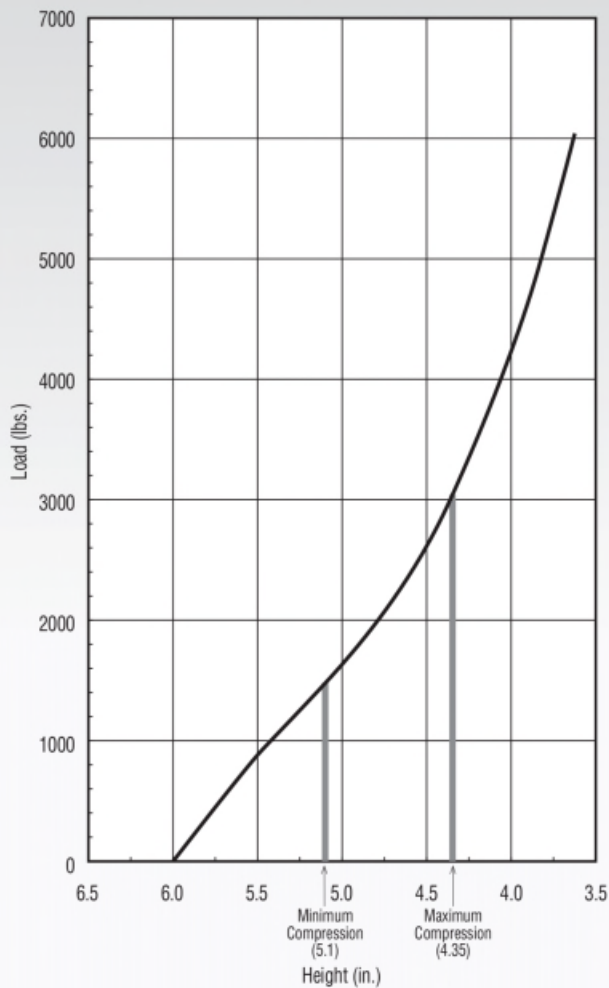
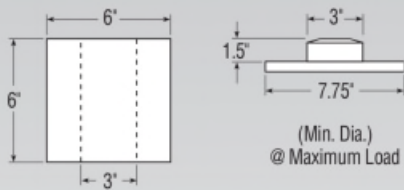
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	6.22	7.87	9.33	11.02	12.71
Height (mm)	147	142	137	135	130
Rate (kN/m)	305	330	350	368	385
Effective Deflection (mm)	20	23	28	30	33
Natural Freq. (Hz)	3.50	3.23	3.05	2.88	2.75
Maximum OD (mm)	132	137	140	142	145
Weight (kg)	2.18				

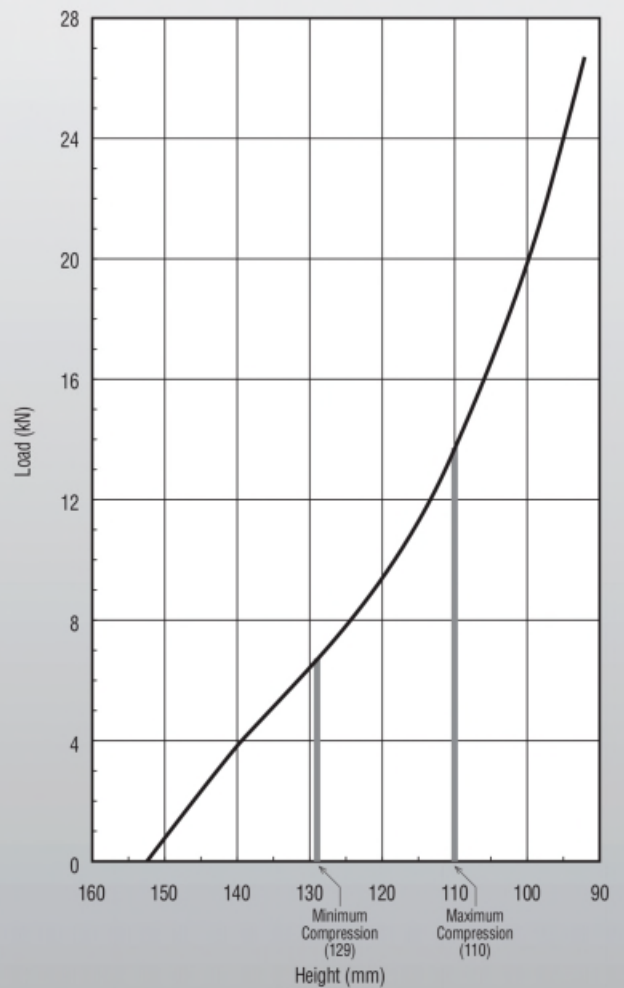
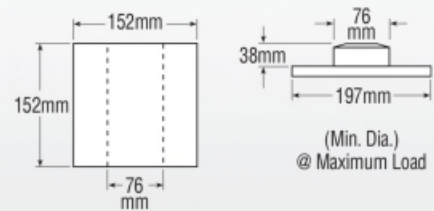


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	1400	1980	2340	2660	3080
Height (in.)	5.1	4.8	4.65	4.5	4.35
Rate (lbs./in.)	1720	2080	2360	2720	3200
Effective Deflection (in.)	0.81	0.95	0.99	0.98	0.96
Natural Freq. (CPM)	208	193	189	190	192
Maximum OD (in.)	6.5	6.6	6.7	6.8	6.9
Weight (lbs.)	4.42				

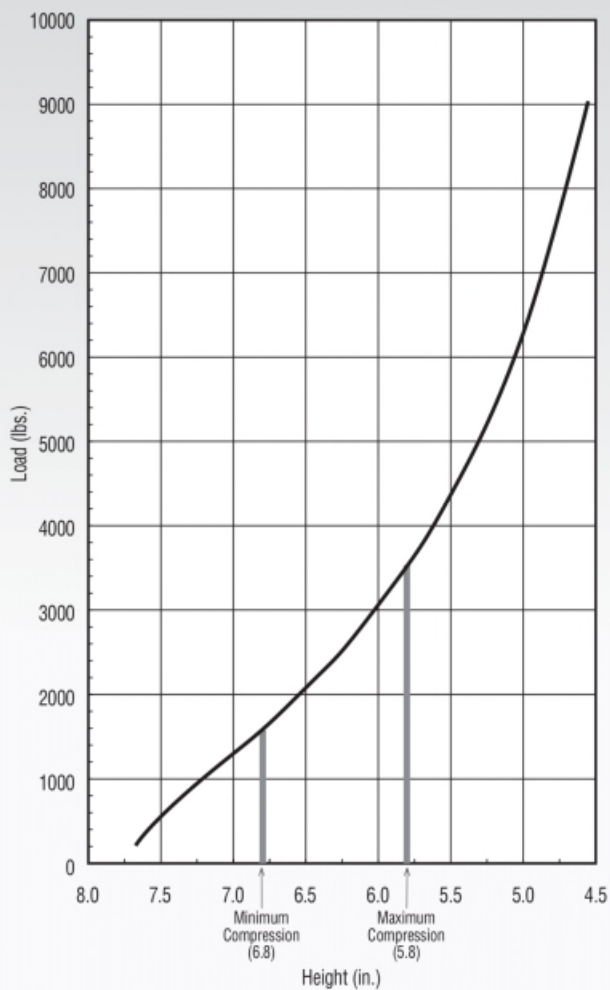
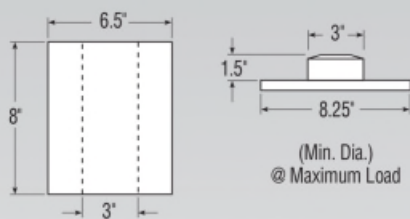

METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	6.22	8.80	10.40	11.82	13.69
Height (mm)	129	122	118	114	110
Rate (kN/m)	301	364	413	476	560
Effective Deflection (mm)	21	24	25	25	24
Natural Freq. (Hz)	3.47	3.21	3.15	3.17	3.19
Maximum OD (mm)	165	168	170	173	175
Weight (kg)	2.01				



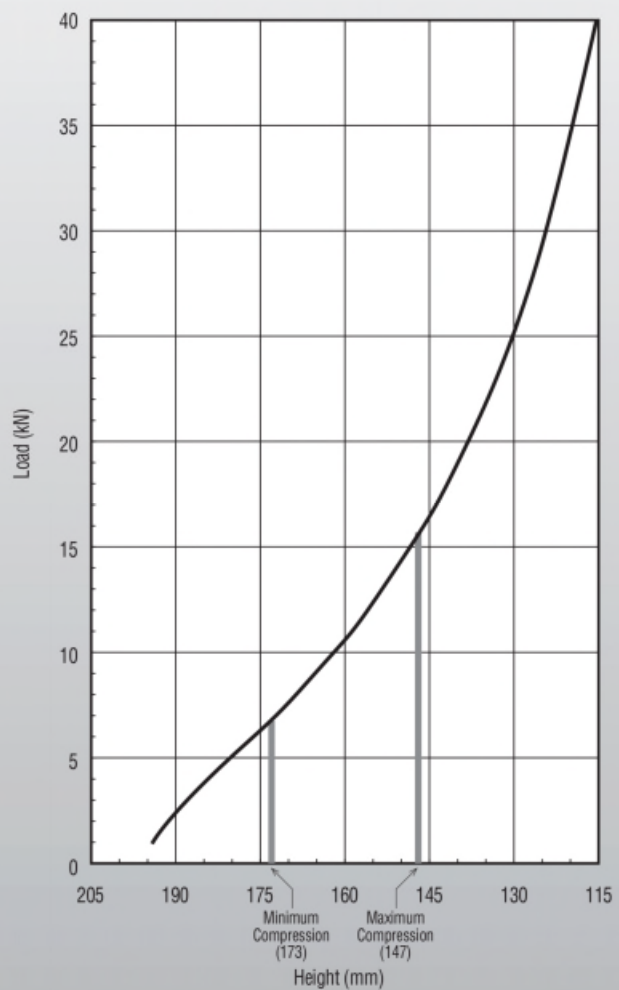
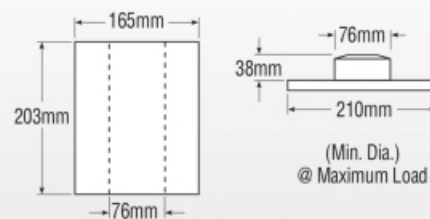
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	1530	2220	2590	2970	3350
Height (in.)	6.8	6.4	6.2	6.0	5.8
Rate (lbs./in.)	1652	1798	1862	1921	1976
Effective Deflection (in.)	0.9	1.2	1.4	1.5	1.7
Natural Freq. (CPM)	195	169	159	151	144
Maximum OD (in.)	6.9	7.1	7.2	7.3	7.5
Weight (lbs.)	7.29				



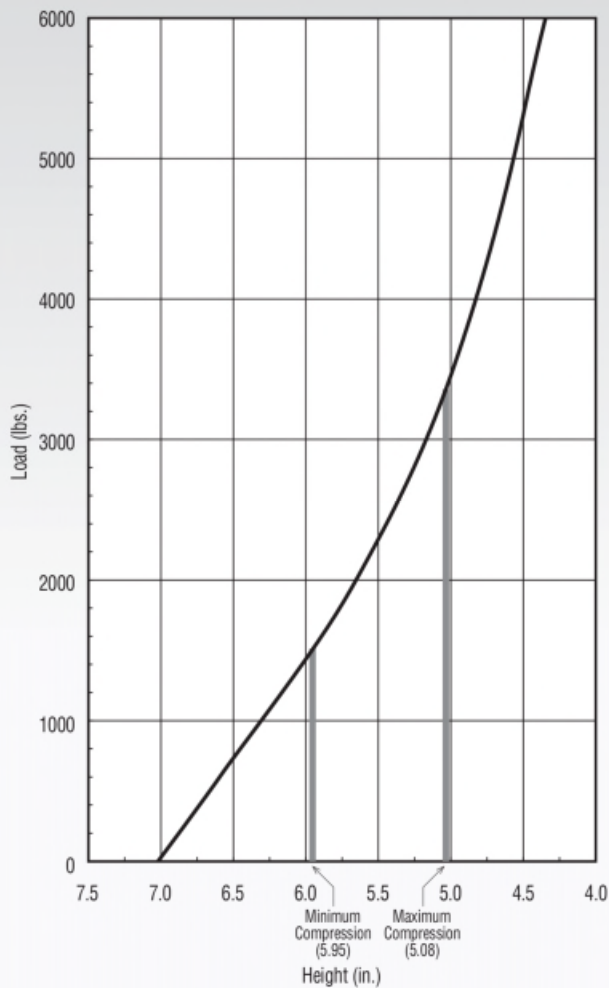
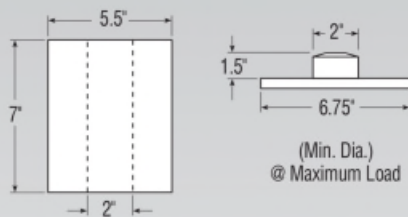
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	6.80	9.87	11.51	13.20	14.89
Height (mm)	173	163	157	152	147
Rate (kN/m)	289	315	326	336	346
Effective Deflection (mm)	23	30	36	38	43
Natural Freq. (Hz)	3.25	2.82	2.65	2.52	2.40
Maximum OD (mm)	175	180	183	185	191
Weight (kg)	3.32				

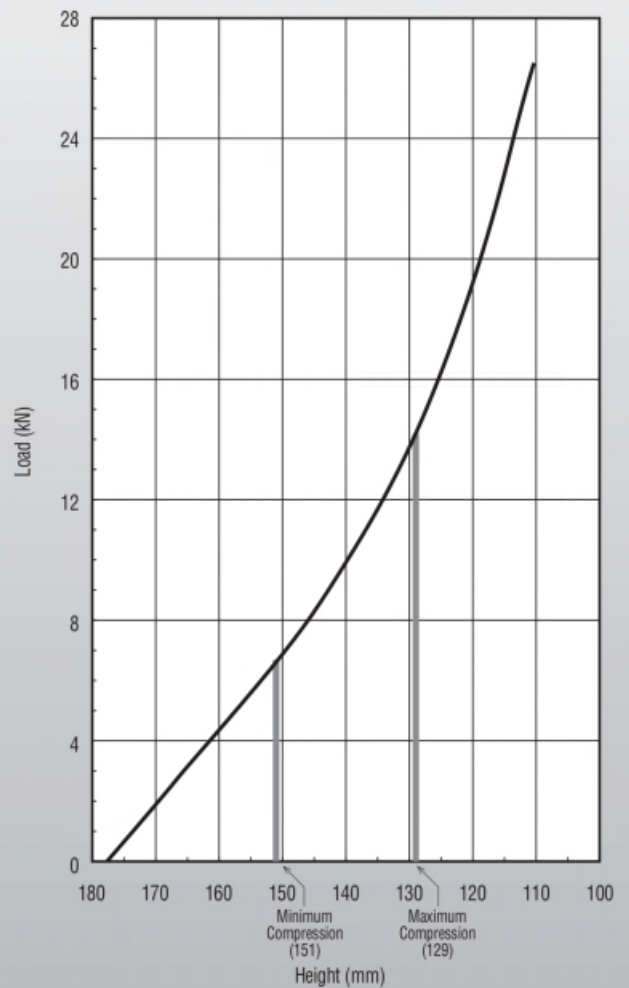
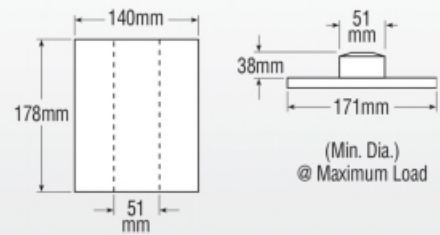


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	1540	2100	2460	2790	3280
Height (in.)	5.95	5.6	5.425	5.25	5.075
Rate (lbs./in.)	1440	1720	2110	2490	3040
Effective Deflection (in.)	1.07	1.22	1.17	1.12	1.08
Natural Freq. (CPM)	182	170	174	178	181
Maximum OD (in.)	5.8	6.0	6.1	6.2	6.3
Weight (lbs.)	5.07				


METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	6.84	9.33	10.93	12.40	14.58
Height (mm)	151	142	138	133	129
Rate (kN/m)	252	301	369	436	532
Effective Deflection (mm)	27	31	30	28	27
Natural Freq. (Hz)	3.03	2.84	2.90	2.96	3.02
Maximum OD (mm)	147	152	155	157	160
Weight (kg)	2.31				



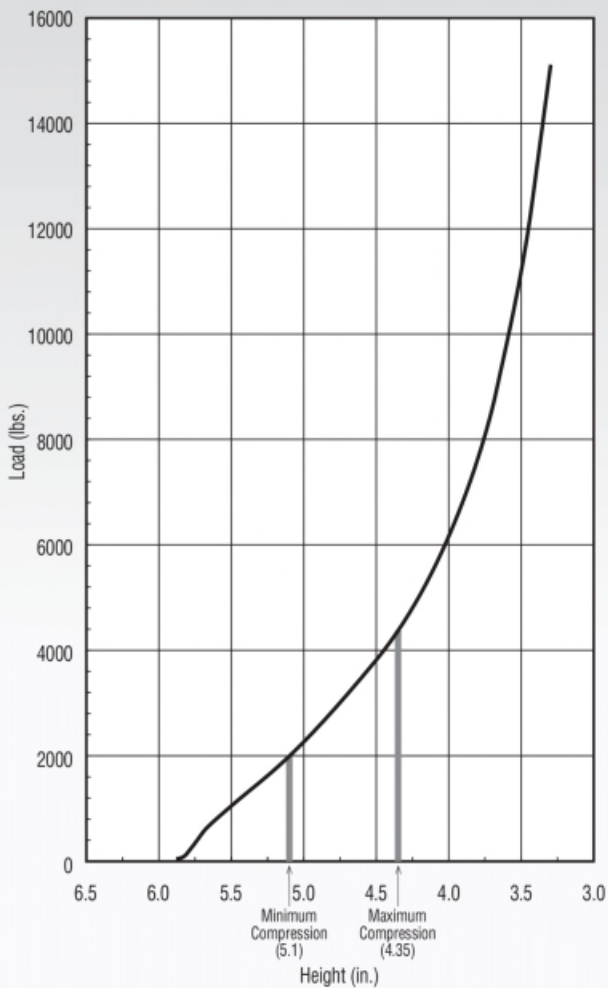
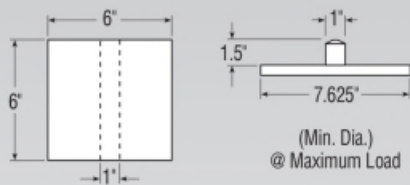
0200

Firestone

MARSH MELLOW SPRINGS

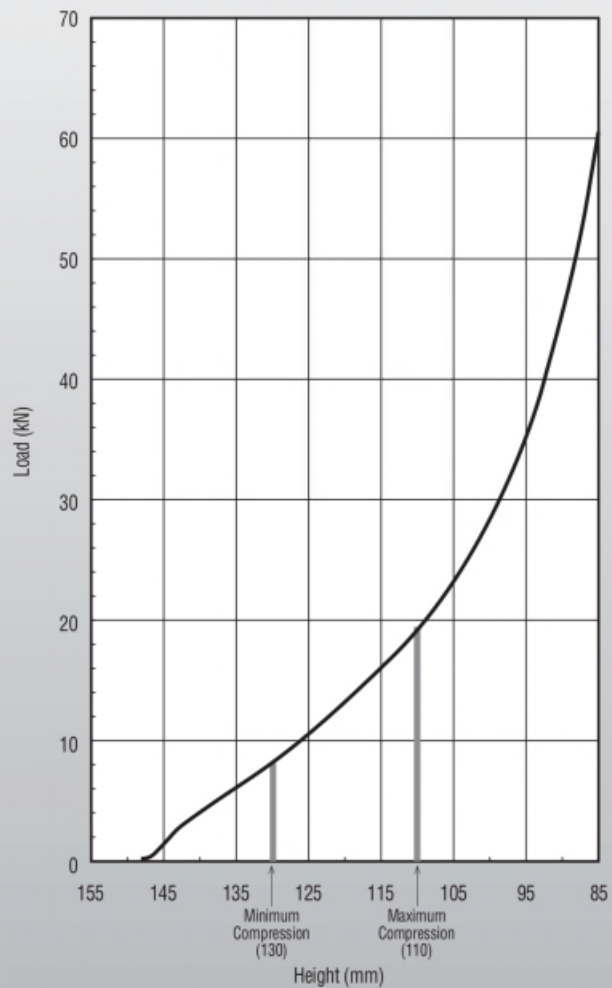
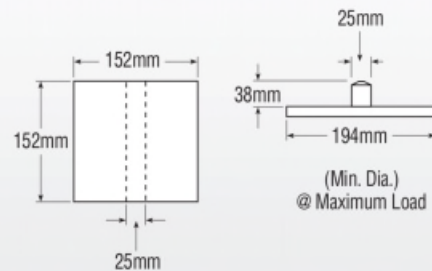
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	1965	2610	3070	3550	4050
Height (in.)	5.1	4.8	4.7	4.5	4.4
Rate (lbs./in.)	2684	2985	3118	3242	3359
Effective Deflection (in.)	0.7	0.9	1.0	1.1	1.2
Natural Freq. (CPM)	220	201	190	180	171
Maximum OD (in.)	6.4	6.5	6.6	6.7	6.9
Weight (lbs.)	5.78				



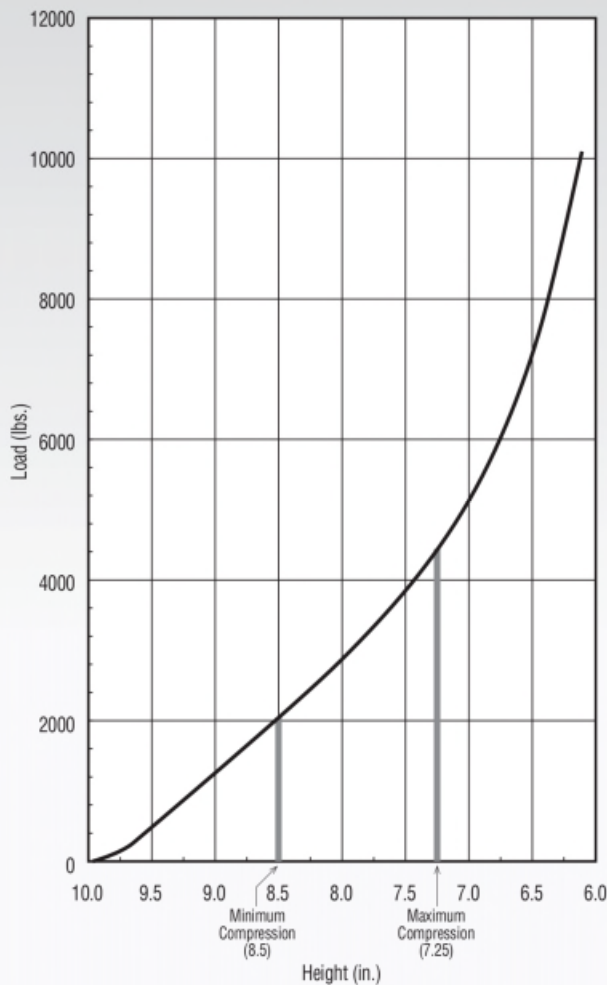
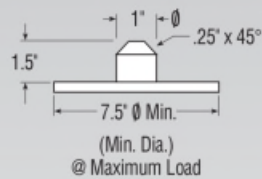
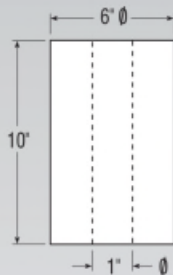
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	8.73	11.60	13.64	15.78	18.00
Height (mm)	130	122	119	114	112
Rate (kN/m)	470	522	546	567	588
Effective Deflection (mm)	18	23	25	28	30
Natural Freq. (Hz)	3.66	3.35	3.17	3.00	2.85
Maximum OD (mm)	163	165	168	170	175
Weight (kg)	2.63				

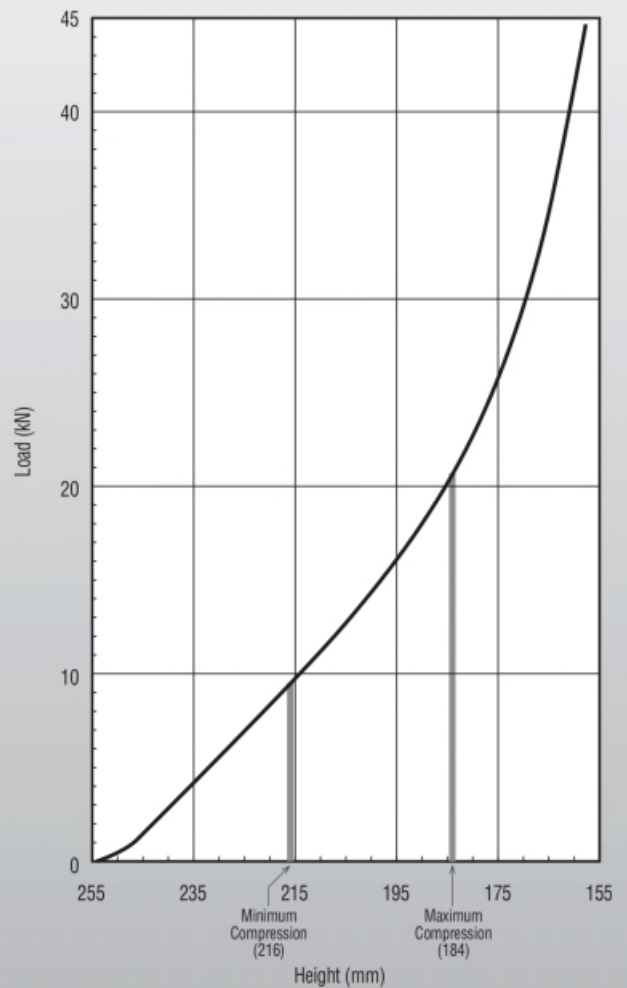
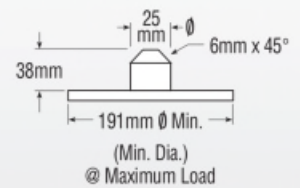
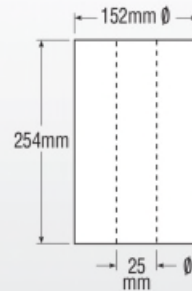


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	1980	2870	3344	3830	4340
Height (in.)	8.5	8.0	7.8	7.5	7.3
Rate (lbs./in.)	1707	1857	1922	1983	2039
Effective Deflection (in.)	1.2	1.5	1.7	1.9	2.1
Natural Freq. (CPM)	175	151	143	135	129
Maximum OD (in.)	7.6				
Weight (lbs.)	9.84				


METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	8.80	12.76	14.84	17.02	19.29
Height (mm)	216	203	198	191	185
Rate (kN/m)	299	325	336	347	357
Effective Deflection (mm)	30	38	43	48	53
Natural Freq. (Hz)	2.92	2.52	2.38	2.25	2.15
Maximum OD (mm)	193				
Weight (kg)	4.48				



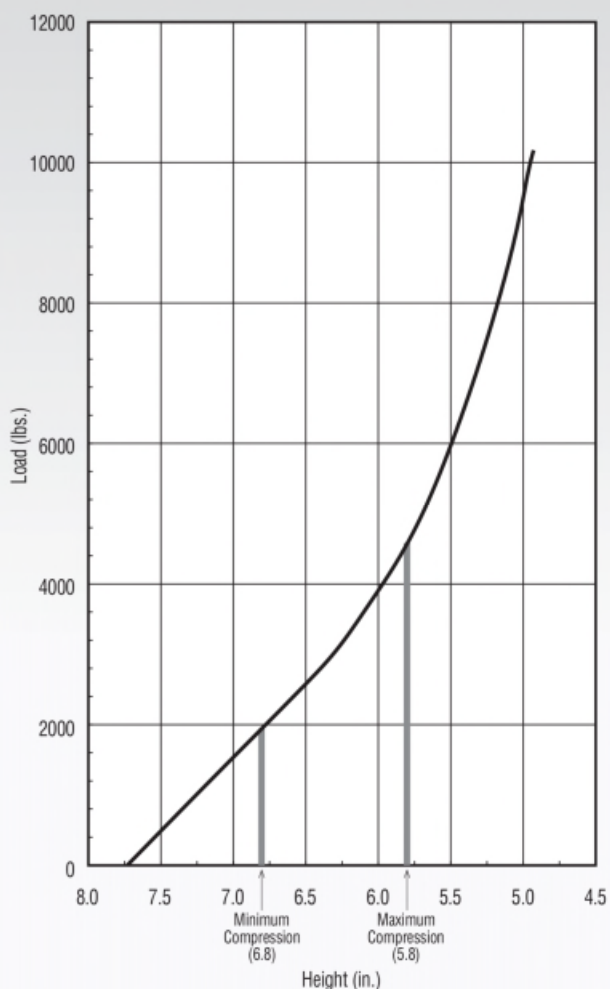
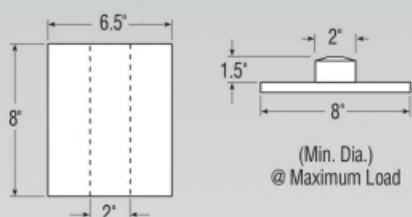
0190

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MARSH MELLOW SPRINGS

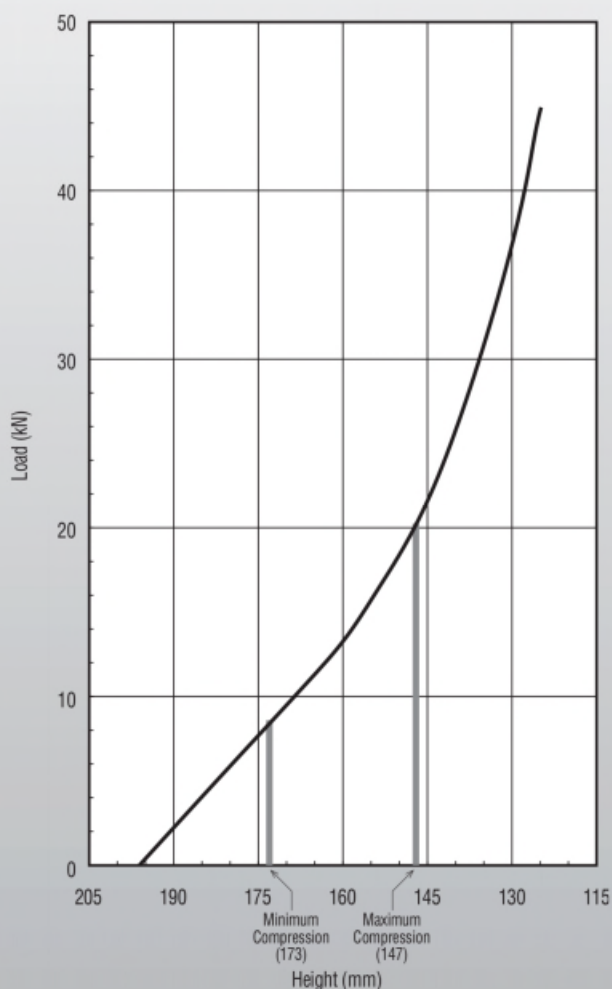
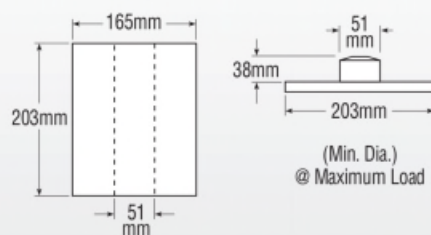
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	1990	2810	3280	3800	4400
Height (in.)	6.8	6.4	6.2	6.0	5.8
Rate (lbs./in.)	1946	2213	2464	2792	3198
Effective Deflection (in.)	1.0	1.3	1.3	1.4	1.4
Natural Freq. (CPM)	186	167	163	161	160
Maximum OD (in.)	6.9	7.1	7.2	7.3	7.4
Weight (lbs.)	8.48				



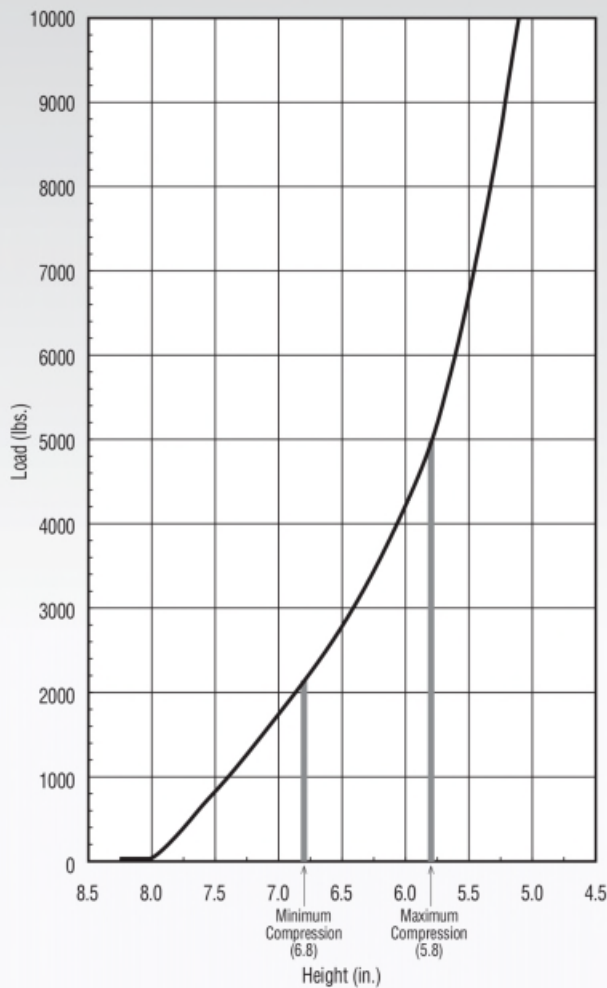
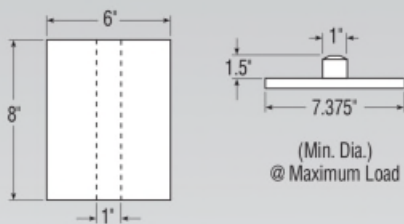
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	8.84	12.49	14.58	16.89	19.56
Height (mm)	173	163	157	152	147
Rate (kg./cm.)	341	387	431	489	560
Effective Deflection (mm)	25	33	33	36	36
Natural Freq. (Hz)	3.10	2.78	2.72	2.68	2.67
Maximum OD (mm)	175	180	183	185	188
Weight (kg)	3.86				

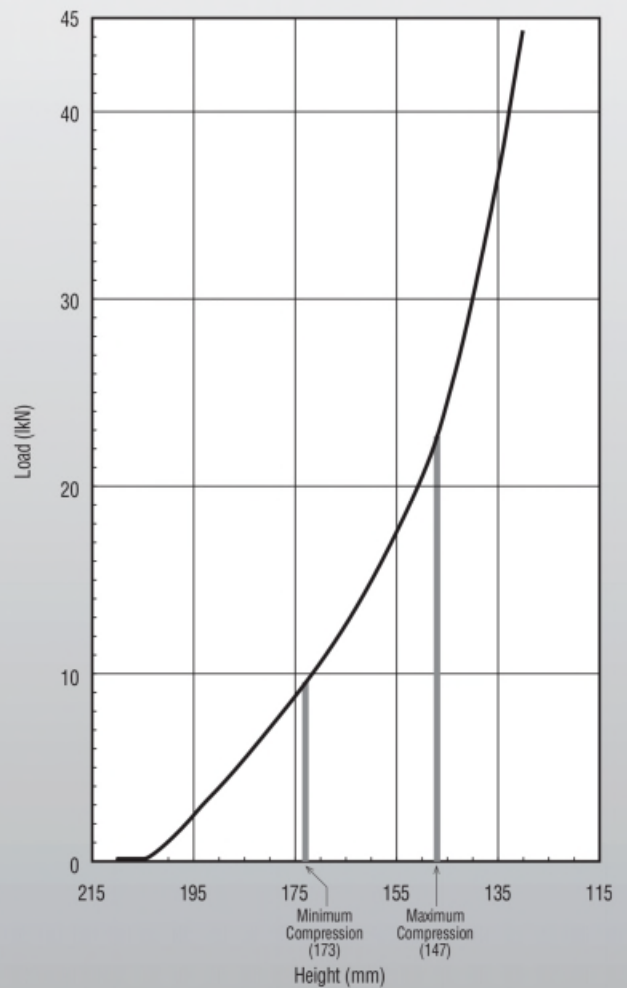
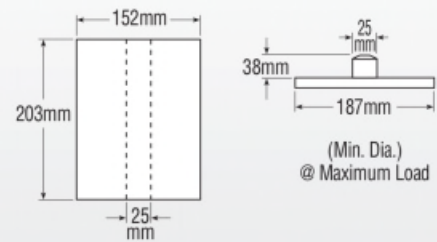


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	2180	3060	3650	4100	4670
Height (in.)	6.8	6.4	6.2	6.0	5.8
Rate (lbs./in.)	2273	2448	2524	2594	2558
Effective Deflection (in.)	1.0	1.2	1.4	1.6	1.8
Natural Freq. (CPM)	192.0	168.2	156.3	150.0	142.0
Maximum OD (in.)	6.4	6.6	6.7	6.8	7.0
Weight (lbs.)	7.84				


METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	9.69	13.60	16.22	18.22	20.76
Height (mm)	173	163	157	152	147
Rate (kN/m)	397	428	441	453	465
Effective Deflection (mm)	25	30	36	41	46
Natural Freq. (Hz)	3.20	2.80	2.61	2.50	2.37
Maximum OD (mm)	163	168	170	173	178
Weight (kg)	3.57				



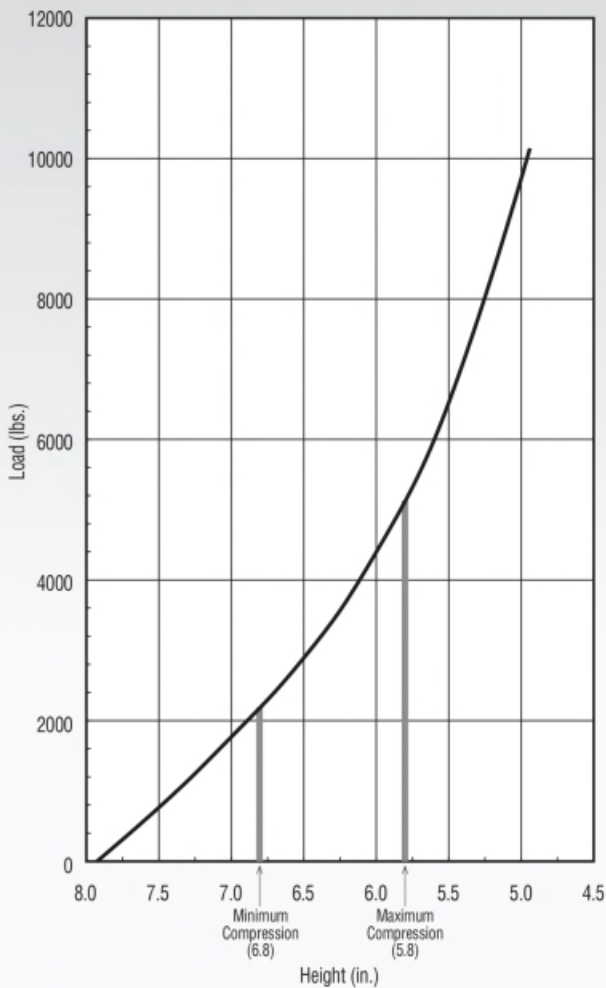
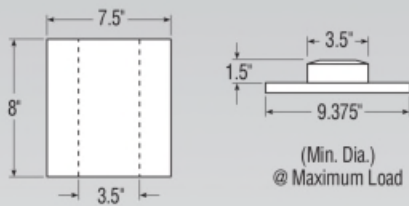
0179

Firestone

MARSH MELLOW SPRINGS

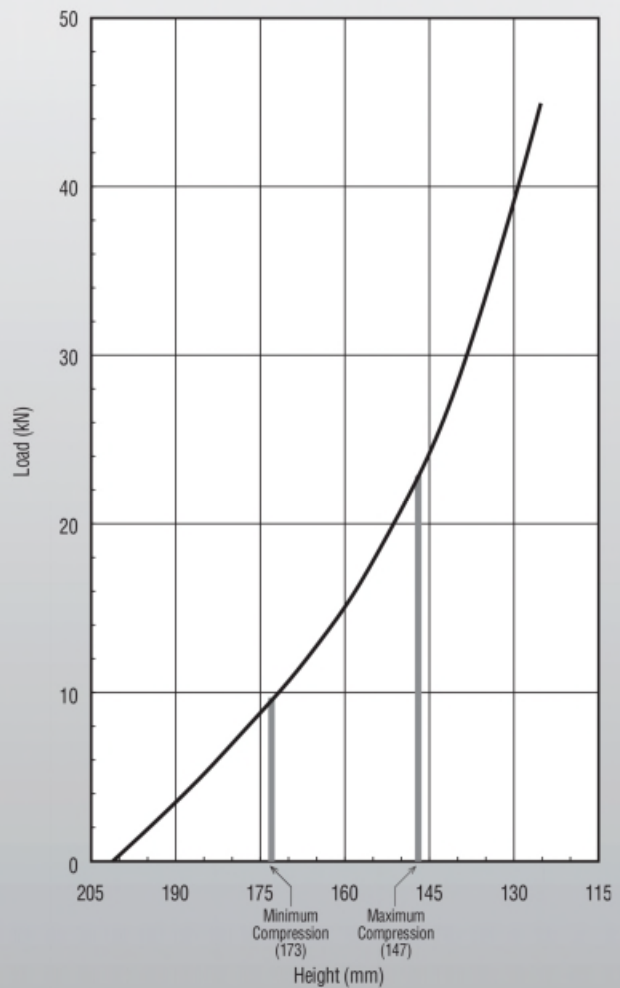
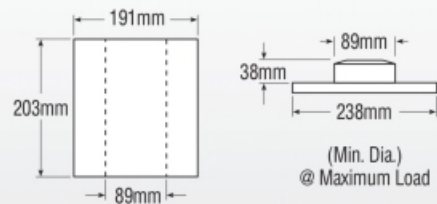
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	2300	3200	3800	4400	5150
Height (in.)	6.8	6.4	6.2	6.0	5.8
Rate (lbs./in.)	2100	2700	3000	3300	3900
Effective Deflection (in.)	1.10	1.19	1.27	1.33	1.32
Natural Freq. (CPM)	180	173	167	163	164
Maximum OD (in.)	8.0	8.2	8.3	8.4	8.6
Weight (lbs.)	10.00				



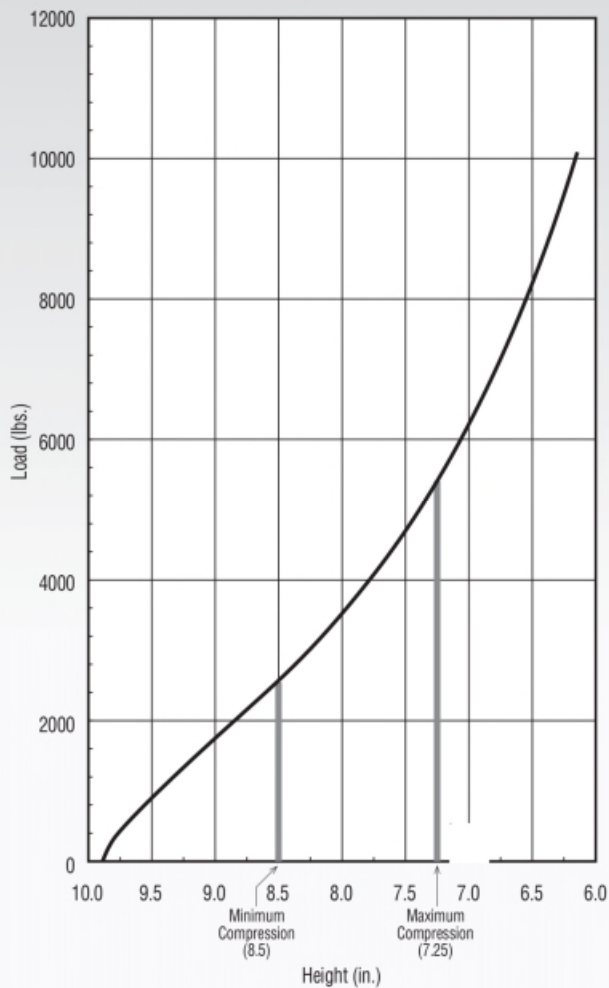
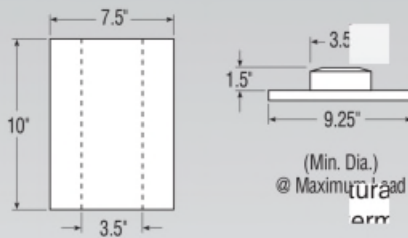
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	10.22	14.22	16.89	19.56	22.89
Height (mm)	173	163	157	152	147
Rate (kN/m)	367	472	525	577	682
Effective Deflection (mm)	28	30	32	34	34
Natural Freq. (Hz)	2.99	2.88	2.78	2.71	2.73
Maximum OD (mm)	203	208	211	213	218
Weight (kg)	4.55				

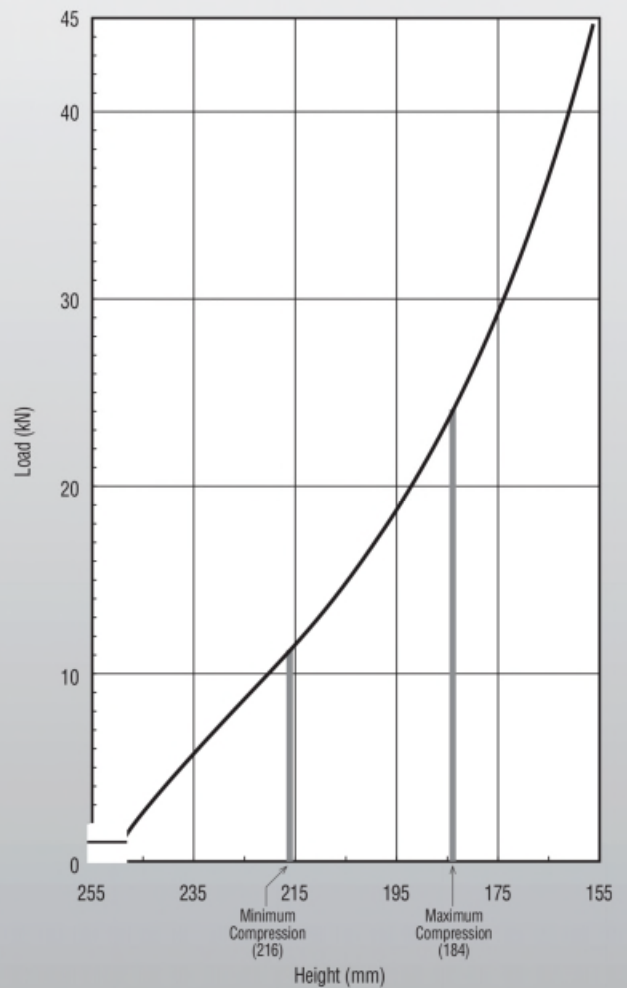
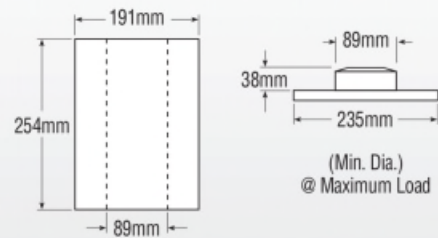


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	2300	3350	4000	4600	5300
Height (in.)	8.5	8.0	7.8	7.5	7.3
Rate (lbs./in.)	2000	2400	2500	2600	3100
Effective Deflection (in.)	1.15	1.40	1.60	1.77	1.71
Natural Freq. (CPM)	175	159	149	141	144
Maximum OD (in.)	7.9	8.1	8.3	8.4	8.6
Weight (lbs.)	12.58				

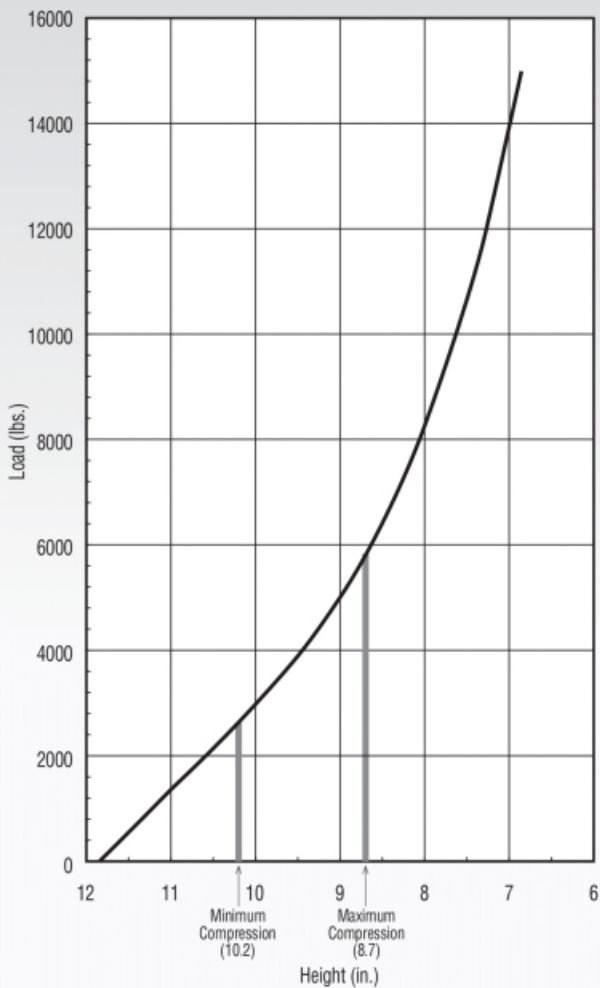
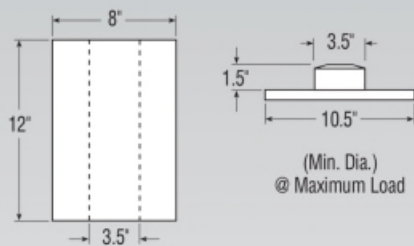

METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	10.22	14.89	17.78	20.44	23.56
Height (mm)	216	203	197	191	184
Rate (kN/m)	350	420	437	455	542
Effective Deflection (mm)	29	35	41	45	43
Natural Freq. (Hz)	2.92	2.65	2.48	2.36	2.40
Maximum OD (mm)	201	206	211	213	218
Weight (kg)	5.73				



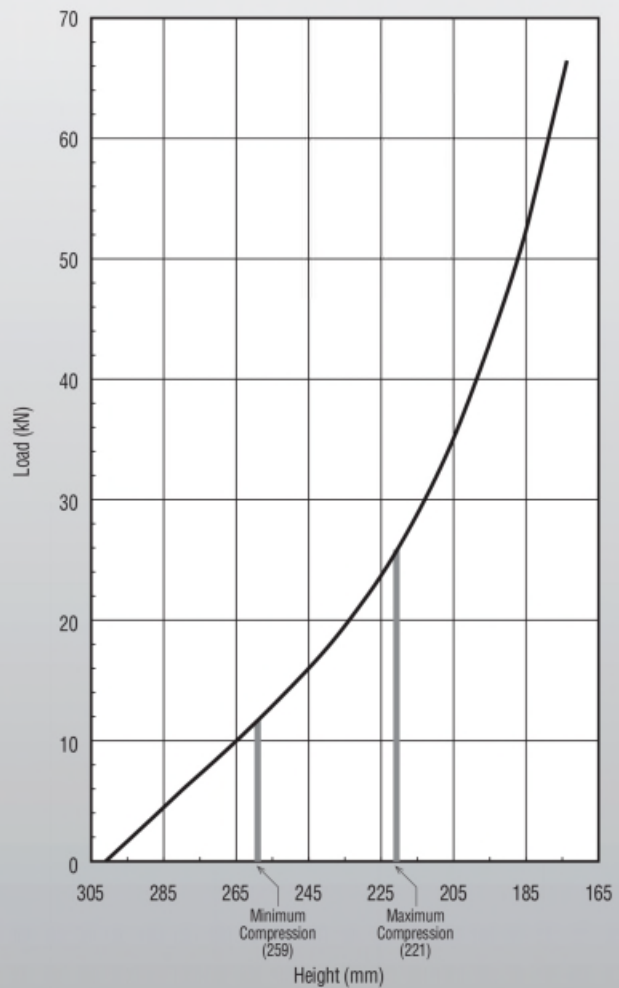
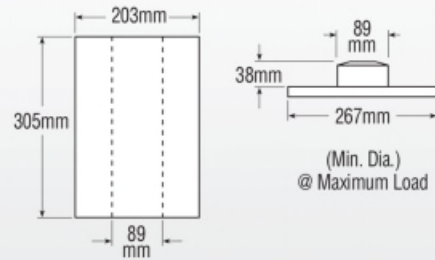
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	2700	3820	4540	5100	5870
Height (in.)	10.2	9.6	9.3	9.0	8.7
Rate (lbs./in.)	1903	2060	2128	2191	2249
Effective Deflection (in.)	1.4	1.9	2.1	2.3	2.6
Natural Freq. (CPM)	158	138	129	123	116
Maximum OD (in.)	8.5	8.7	8.9	9.0	9.3
Weight (lbs.)	16.94				



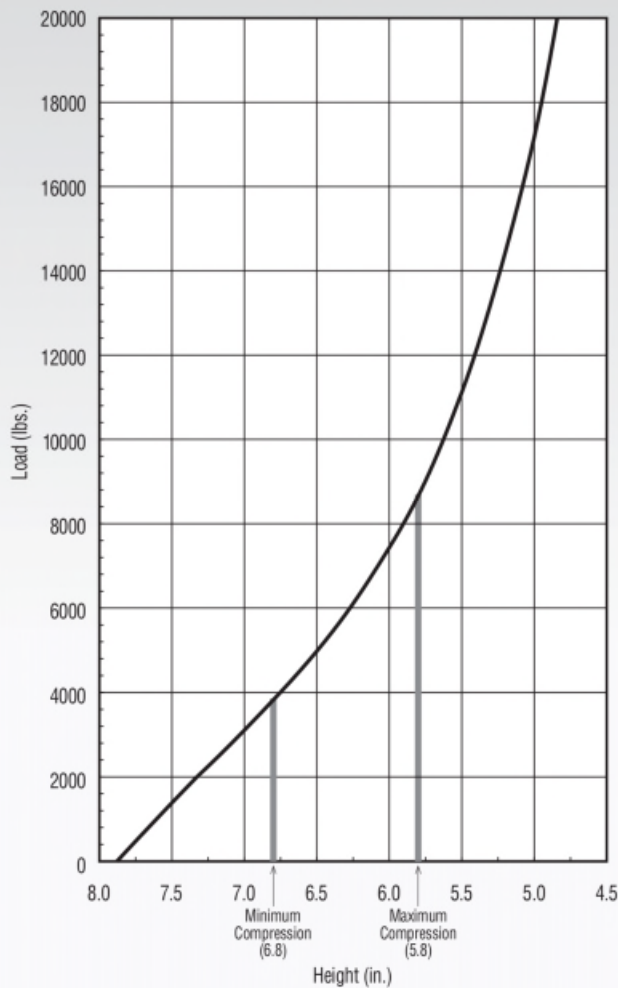
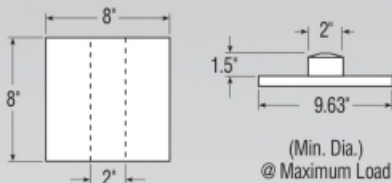
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	12.00	16.98	20.18	22.67	26.09
Height (mm)	259	244	236	229	221
Rate (kN/m)	332	360	372	383	393
Effective Deflection (mm)	36	48	53	58	66
Natural Freq. (Hz)	2.63	2.30	2.15	2.05	1.93
Maximum OD (mm)	216	221	226	229	236
Weight (kg)	7.71				

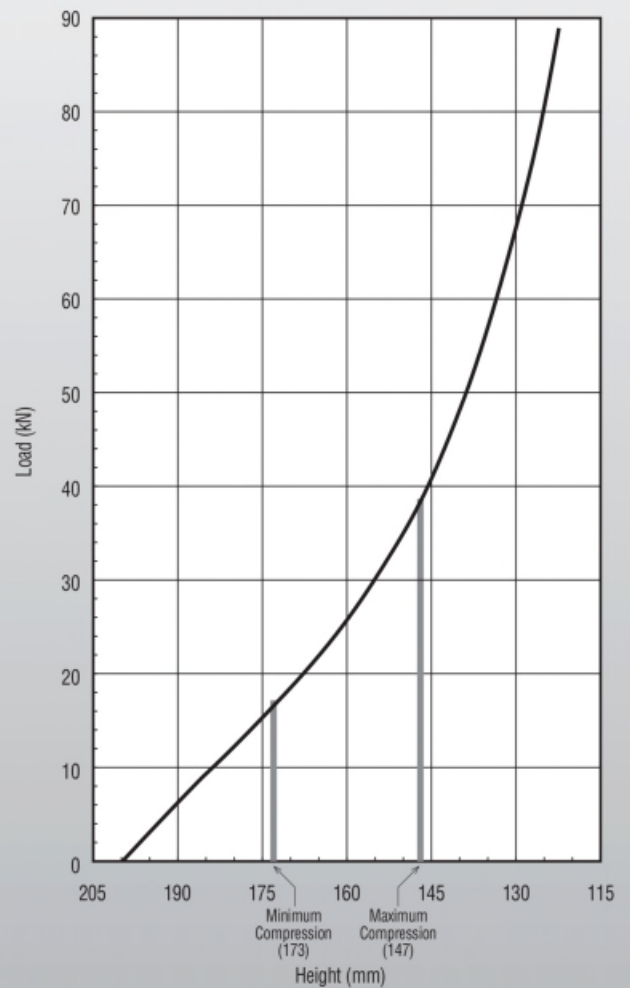
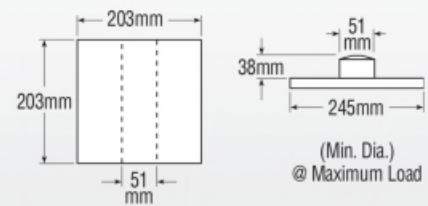


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	3800	5300	6200	7200	8400
Height (in.)	6.8	6.4	6.2	6.0	5.8
Rate (lbs./in.)	3508	4141	4727	5492	6436
Effective Deflection (in.)	1.1	1.3	1.3	1.3	1.3
Natural Freq. (CPM)	181	166	164	164	165
Maximum OD (in.)	8.2	8.5	8.7	9.0	9.3
Weight (lbs.)	13.52				


METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	16.89	23.58	27.56	32.00	37.33
Height (mm)	173	163	157	152	147
Rate (kN/m)	614	725	827	961	1126
Effective Deflection (mm)	28	33	33	33	33
Natural Freq. (Hz)	3.02	2.77	2.73	2.73	2.75
Maximum OD (mm)	208	216	221	229	236
Weight (kg)	6.16				



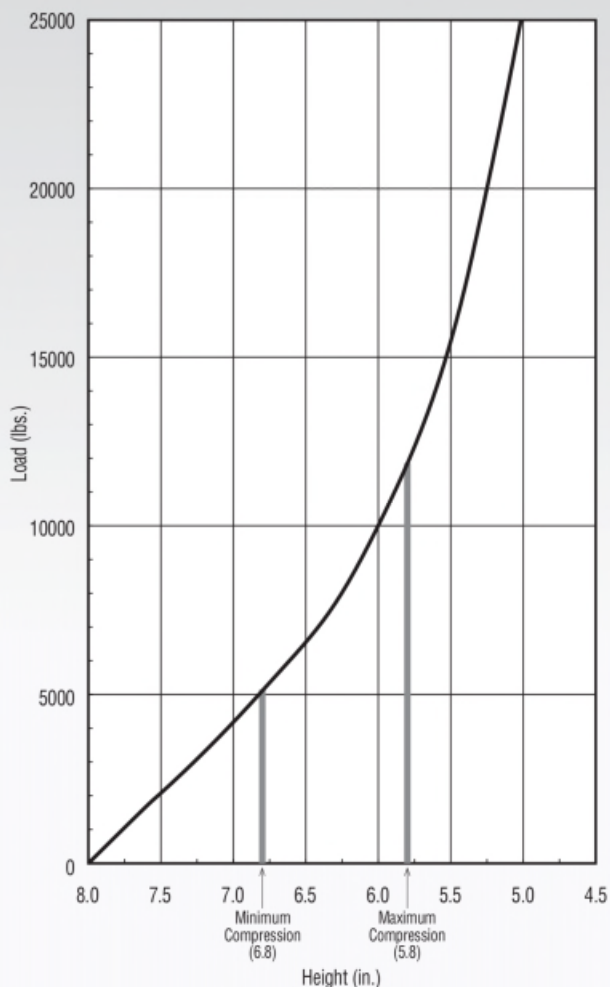
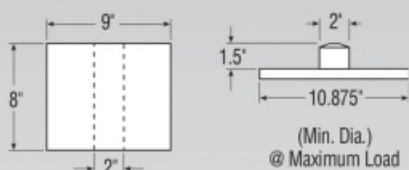
0230

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MARSH MELLOW SPRINGS

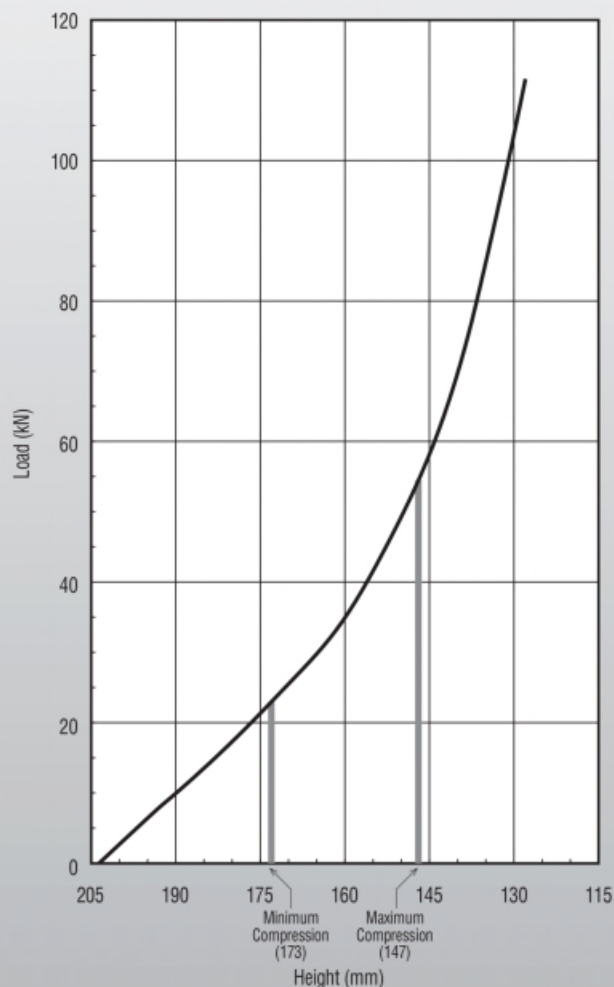
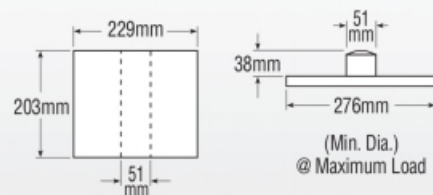
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	5200	7400	8600	10000	11400
Height (in.)	6.8	6.4	6.2	6.0	5.8
Rate (lbs./in.)	4893	5993	6486	6942	7359
Effective Deflection (in.)	1.1	1.2	1.3	1.4	1.5
Natural Freq. (CPM)	182	169	163	157	151
Maximum OD (in.)	9.50	9.78	9.90	10.08	10.24
Weight (lbs.)	16.88				



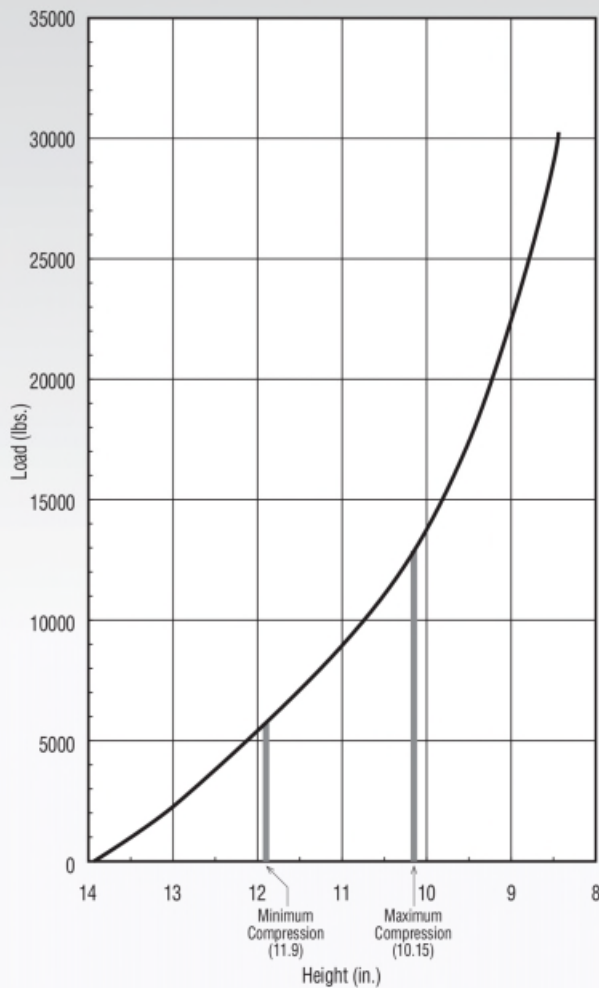
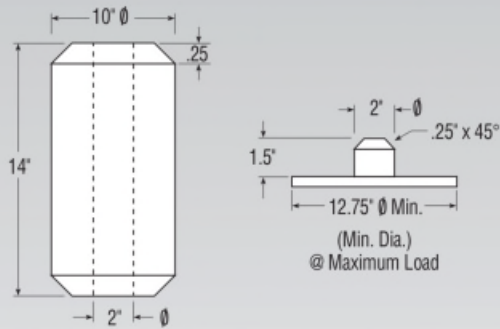
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	23.11	32.89	38.22	44.44	50.67
Height (mm)	173	163	157	152	147
Rate (kN/m)	856	1048	1134	1214	1287
Effective Deflection (mm)	28	30	33	36	38
Natural Freq. (Hz)	3.03	2.82	2.72	2.62	2.52
Maximum OD (mm)	241	248	251	256	260
Weight (kg)	7.69				

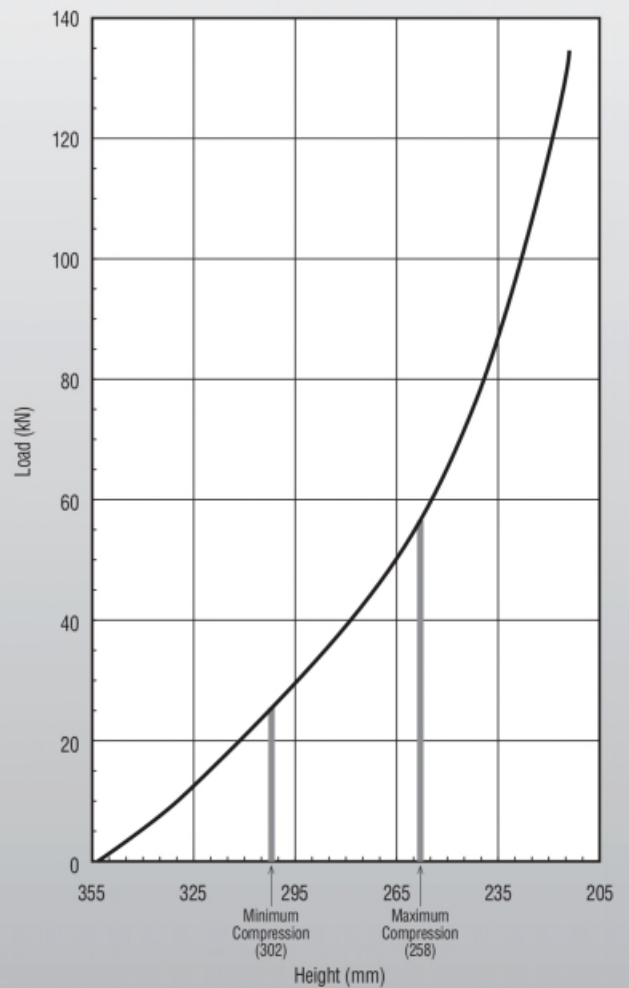
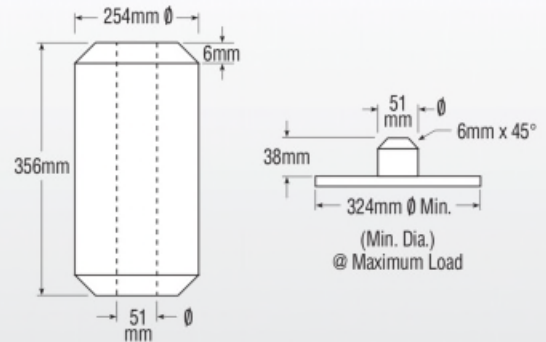


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	5500	7850	9150	10750	12250
Height (in.)	11.9	11.2	10.9	10.5	10.2
Rate (lbs./in.)	3422	3752	3897	4031	4156
Effective Deflection (in.)	1.6	2.1	2.3	2.7	2.9
Natural Freq. (CPM)	148	130	123	115	110
Maximum OD (in.)	12.7				
Weight (lbs.)	37.28				

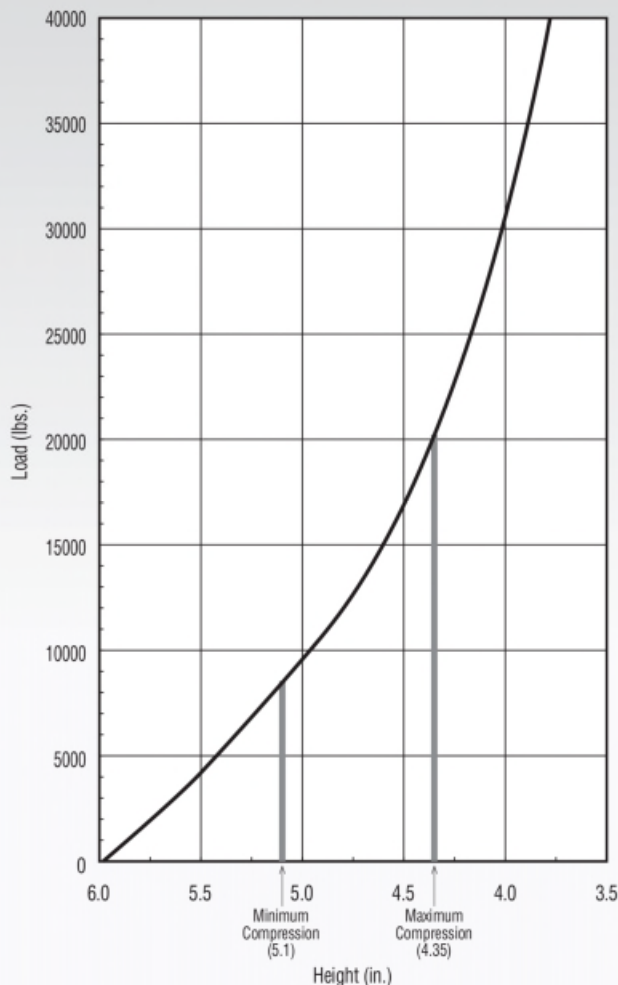
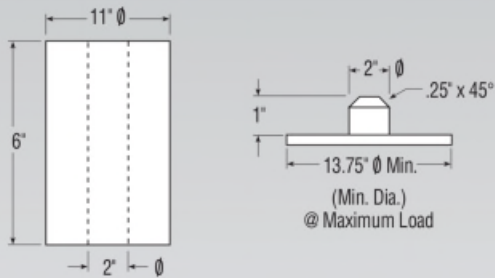

METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	24.44	34.89	40.67	47.78	54.44
Height (mm)	302	284	277	267	259
Rate (kN/m)	598	656	681	705	727
Effective Deflection (mm)	41	53	58	69	74
Natural Freq. (Hz)	2.47	2.17	2.05	1.92	1.83
Maximum OD (mm)	323				
Weight (kg)	16.98				

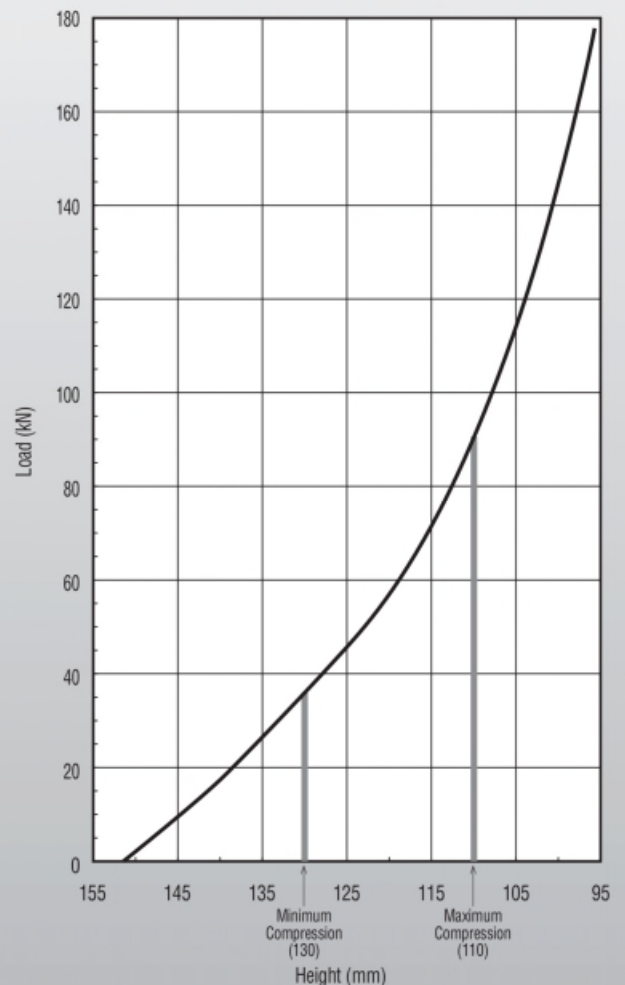
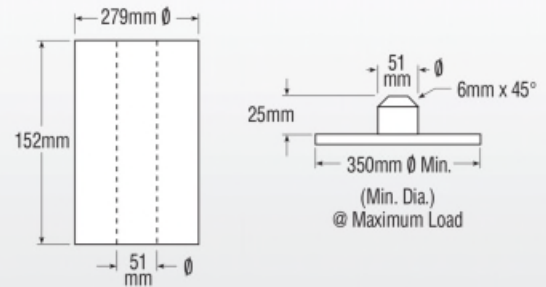


IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	8200	11700	14000	16625	20000
Height (in.)	5.1	4.8	4.65	4.5	4.35
Rate (lbs./in.)	11200	13700	16600	20000	23600
Effective Deflection (in.)	0.73	0.85	0.84	0.83	0.85
Natural Freq. (CPM)	220	203	205	206	204
Maximum OD (in.)	13.7				
Weight (lbs.)	19.58				

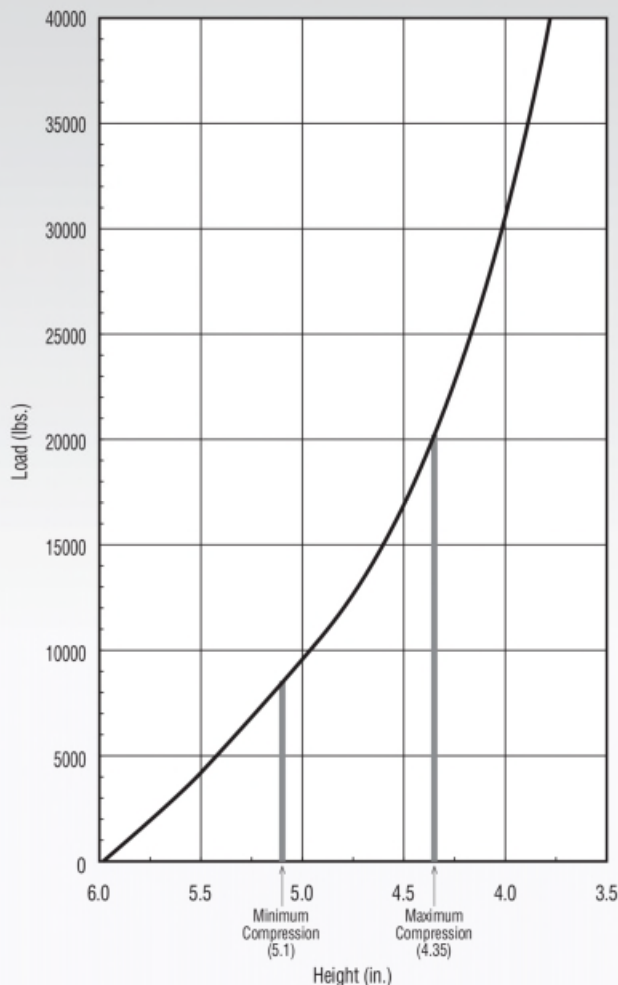
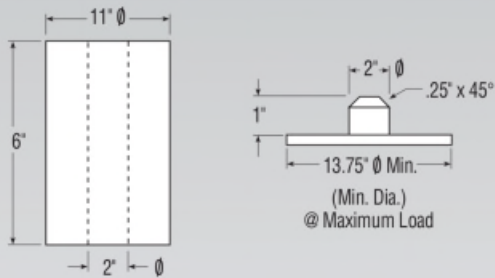

METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	36.44	52.00	62.22	73.89	88.89
Height (mm)	130	122	118	114	110
Rate (kN/m)	1960	2397	2905	3500	4129
Effective Deflection (mm)	19	22	21	21	22
Natural Freq. (Hz)	3.66	3.39	3.41	3.44	3.40
Maximum OD (mm)	348				
Weight (kg)	8.92				

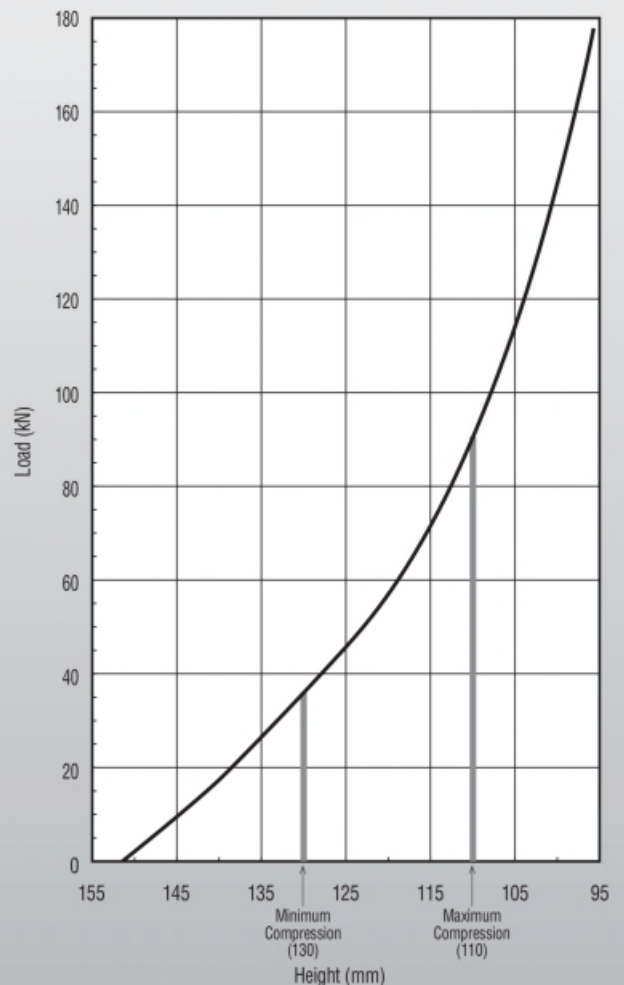
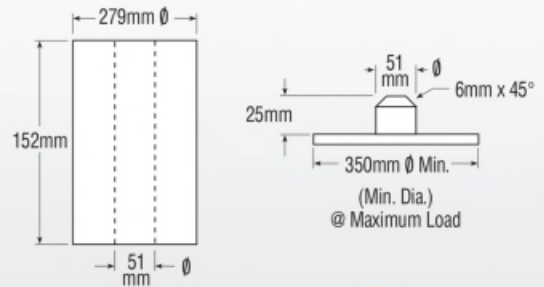


IMPERIAL

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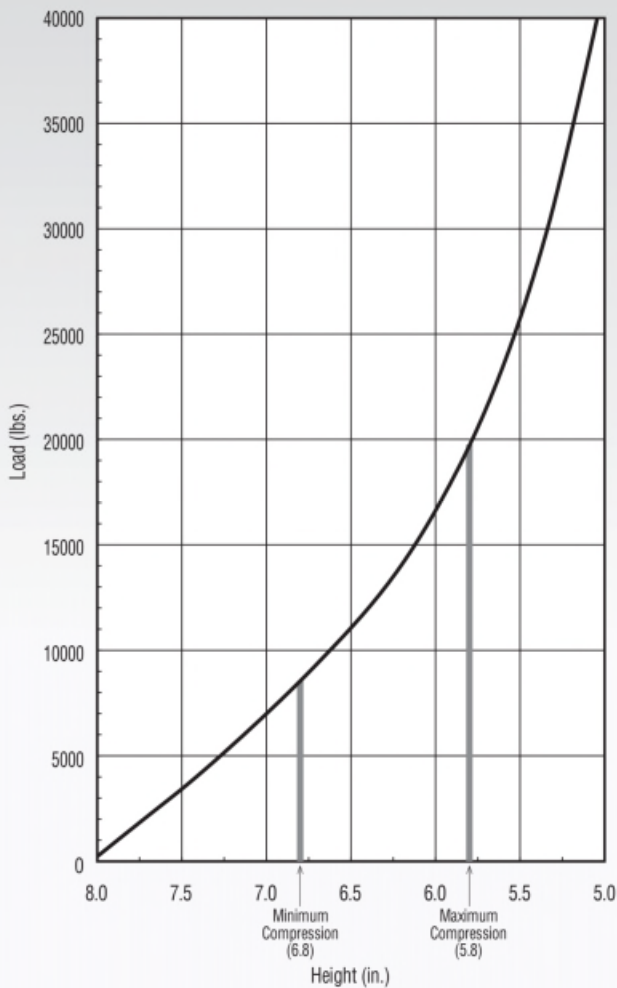
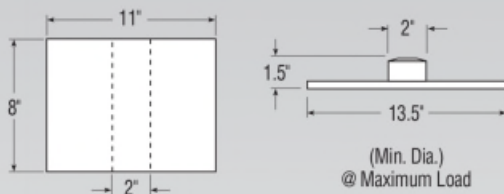
0243

Firestone

MARSH MELLOW SPRINGS

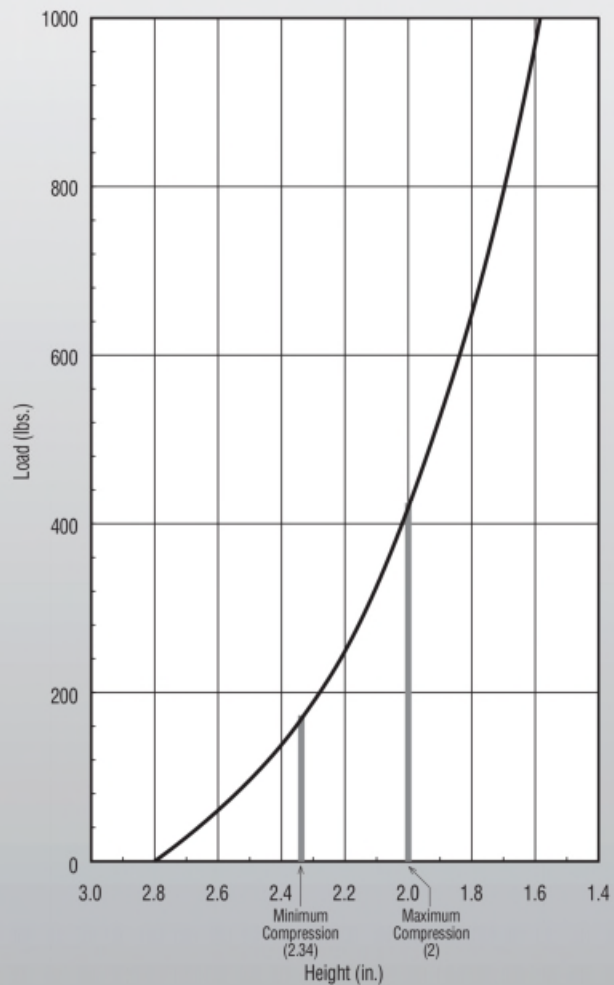
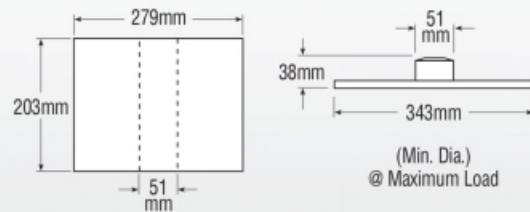
IMPERIAL

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (lbs.)	8300	12000	14000	16200	19600
Height (in.)	6.8	6.4	6.2	6.0	5.8
Rate (lbs./in.)	8917	9690	10025	10335	10623
Effective Deflection (in.)	0.9	1.2	1.4	1.6	1.9
Natural Freq. (CPM)	195	169	159	150	138
Maximum OD (in.)	13.4				
Weight (lbs.)	26.60				



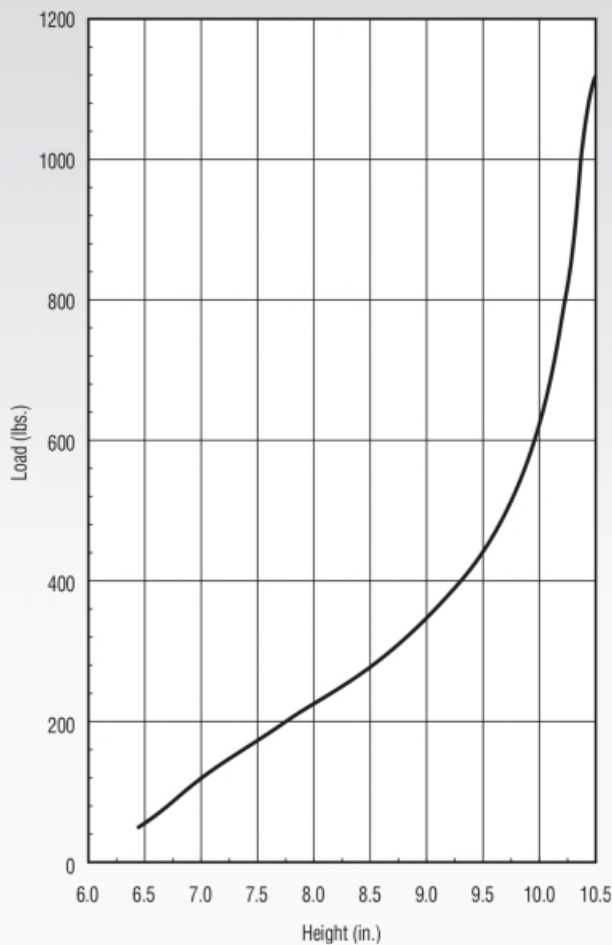
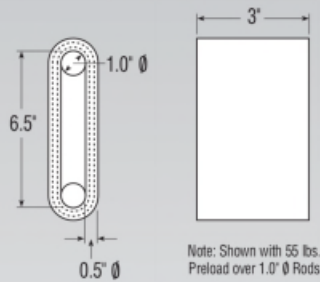
METRIC

Compression (%)	15.0	20.0	22.5	25.0	27.5
Load (kN)	36.89	53.33	62.22	72.00	87.11
Height (mm)	173	163	157	152	147
Rate (kN/m)	1560	1696	1754	1808	1859
Effective Deflection (mm)	23	30	36	41	47
Natural Freq. (Hz)	3.25	2.82	2.65	2.50	2.31
Maximum OD (mm)	340				
Weight (kg)	12.11				

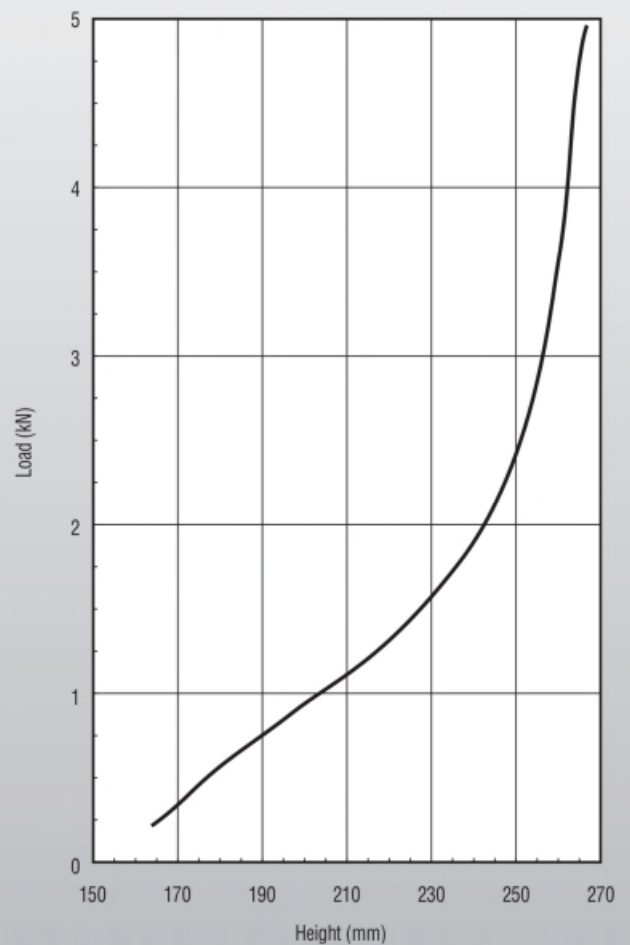
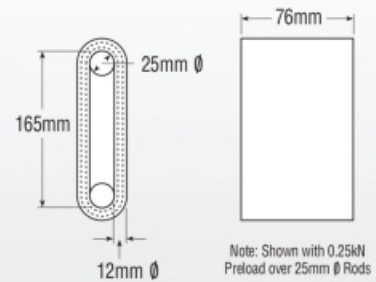


IMPERIAL

Extension (%)	110.0	120.0	130.0
Load (lbs.)	125	200	270
Length (in.)	7.15	7.8	8.45
Rate (lbs./in.)	120	80	120
Effective Deflection (in.)	1.04	2.5	2.25
Natural Freq. (CPM)	184	119	125
Weight (lbs.)	0.57		

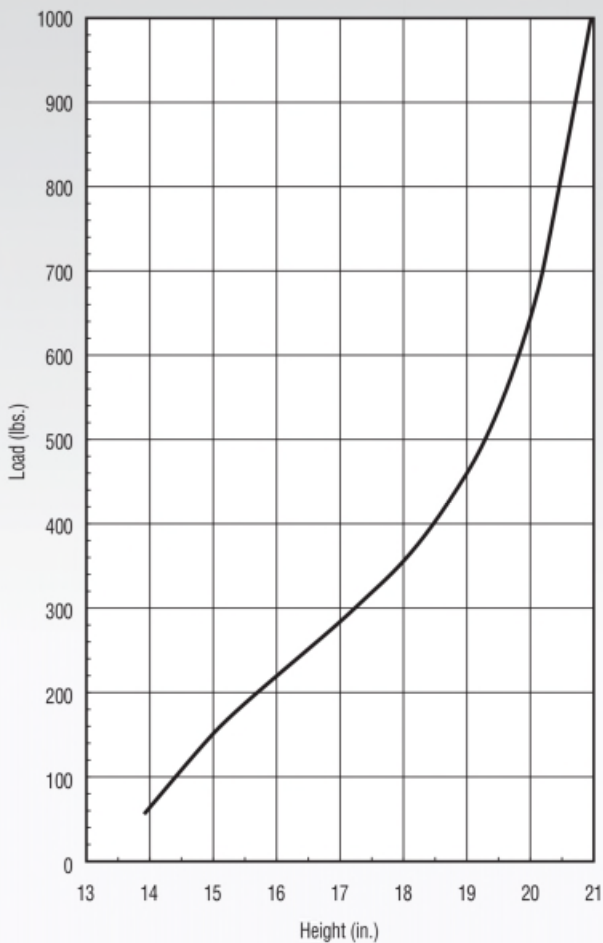
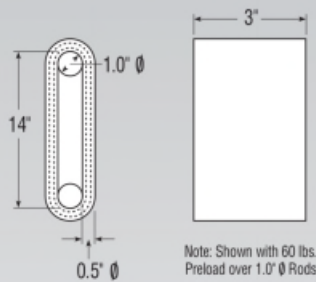

METRIC

Extension (%)	110.0	120.0	130.0
Load (kN)	0.56	0.89	1.2
Length (mm)	182	198	215
Rate (kN/m)	21	14	21
Effective Deflection (mm)	26	64	57
Natural Freq. (Hz)	3.07	1.98	2.09
Weight (lbs.)	0.26		



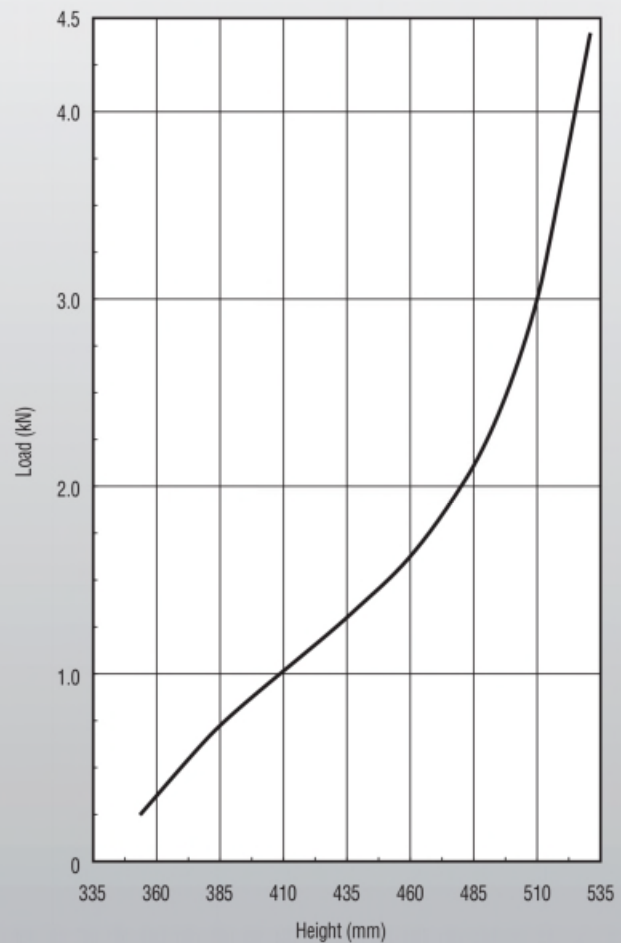
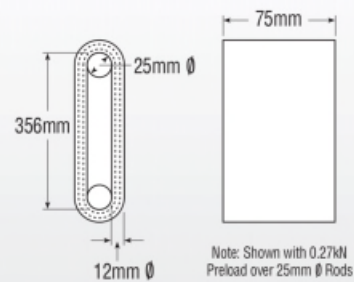
IMPERIAL

Extension (%)	110.0	120.0	130.0
Load (lbs.)	175	275	375
Length (in.)	15.4	16.8	18.2
Rate (lbs./in.)	70	74	94
Effective Deflection (in.)	2.5	3.72	3.99
Natural Freq. (CPM)	119	98	94
Weight (lbs.)	1.38		



METRIC

Extension (%)	110.0	120.0	130.0
Load (kN)	0.78	1.22	1.67
Length (mm)	391	427	462
Rate (kN/m)	12	13	16
Effective Deflection (mm)	64	94	101
Natural Freq. (Hz)	1.98	1.63	1.57
Weight (lbs.)	0.63		



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