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ROUND ELASTOMERIC  
ACOUSTICAL FLOOR  
MOUNTINGS OR OTHER  
SUITABLE APPLICATIONS

# EAFM

EAFM-114-1 BULLETIN

In 1976 the acoustical community asked us to develop a floating floor mounting that would last as long as the building and provide response frequencies lower than two inch (50mm) thick fiberglass.

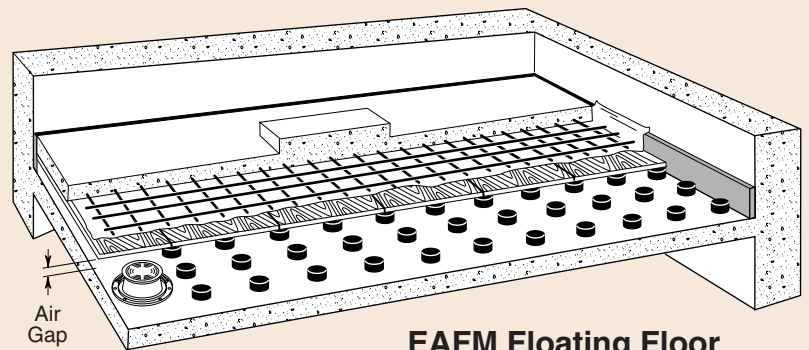
We were pleased to find that Neoprene molded in exact accordance with DuPont formulations had addressed the life expectancy requirement as bridge supports. Outdoor applications are far more severe than within a building because of the temperature extremes, sunlight, rain, snow and ice.

In bridge and overpass work there is a need for very high loadings with pressures as high as 2000 lbs/ inch<sup>2</sup>. If strain is limited to 10 to 15 percent of the pad thickness, both creep and permanent set are very acceptable.

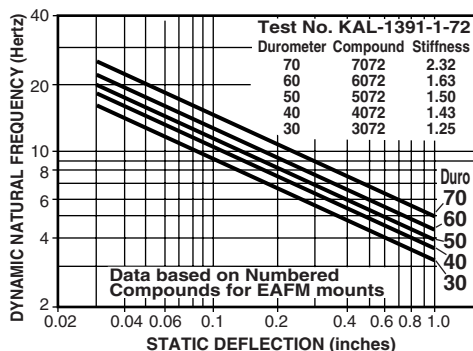
Since we started by supporting floating floor areas of 1 square foot (0.1 square meters), our initial problem was to design a stable rubber column that would deflect 0.2 to 0.3 inches (5mm to 8mm) under minor loadings. A mounting thickness of 2 inches (50mm) at 10 to 15% deflection (strain) met the deflection criteria. A 2 inch (50mm) diameter reduced the shape factor (SF= Loaded Area/Perimeter Area) to achieve the low capacities of the EAFM-8823 on page 3.

All of the other sizes were gradually designed and tooled to raise or lower both capacities and frequencies.

In response to the wishes and specifications of Acousticians and Architects we sometimes manufacture these products in Bridge Bearing Natural Rubber or tool for other sizes and thicknesses. This arsenal of available sizes encouraged other applications. Standard designs and variations are used as drop hammer shock absorbers, subway, railroad, building, pump and transformer isolators. We design and fabricate to virtually all requirements, including squares and rectangles with embedded plates.



### Dynamic Stiffness & Frequency Curves

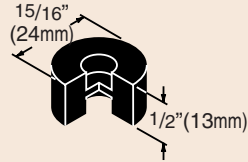


### BRIDGE-BEARING NEOPRENE PHYSICAL PROPERTIES

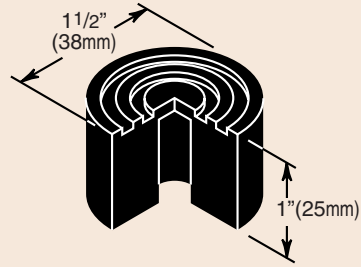
ORIGINAL PHYSICAL PROPERTIES			TESTED FOR AGING			COMPRESSION SET (e)
(a) Duro-meter	(b) Tensile Strength (min)	(b) Elongat. at Break (min)	(c) OVEN AGING (70h/212°F) Hardness (max)	(c) Tensile Strength (max)	(c) Elongat. at Break (max)	
40±5	2000 psi	450%	+15%	±15%	-40%	1 ppm in air by Vol. 20% Strain 100F° 22hrs 150F° Method B
50±5	2500 psi	400%	+15%	±15%	-40%	
60±5	2500 psi	350%	+15%	±15%	-40%	

(a)ASTM D-676 (b)ASTM D-412 (c)ASTM D-573 (d)ASTM D-1149 (e)ASTM D-395

**1/2" – 1" (13 – 25mm) Height**



**EAFM 16114**

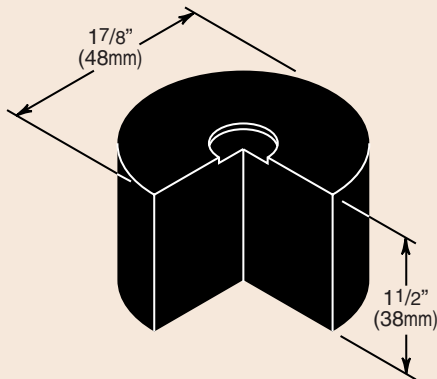


**EAFM 6534**

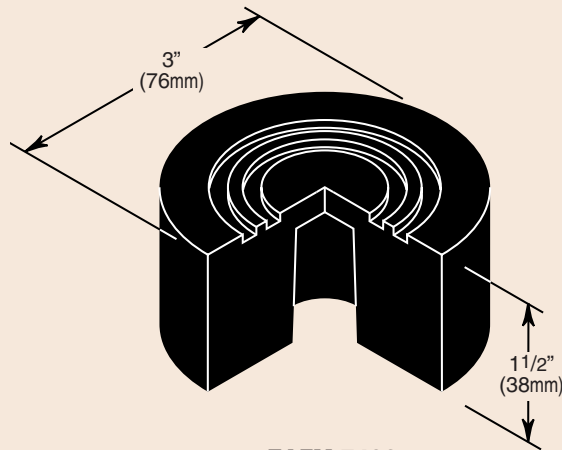
EAFM Designation & Color	Durometer ±5	Load Capacity (lb kg)				Natural Frequency of Mounts with Dynamic Frequency Correction(Hz)				
		Rated Load Range			Temporary Overload	Rated Load Range			Temporary Overload	
		0.025"Defl 0.6mm	0.050"Defl 1.3mm	0.075"Defl 1.9mm	0.225"Defl 5.7mm	0.025"Defl 0.6mm	0.050"Defl 1.3mm	0.075"Defl 1.9mm	0.225"Defl 5.7mm	
16114	Green	40	17 <b>08</b>	33 <b>15</b>	50 <b>23</b>	105 <b>48</b>	23.6	16.7	13.6	7.9
	Red	50	25 <b>11</b>	50 <b>23</b>	75 <b>34</b>	150 <b>68</b>	24.0	17.1	14.0	8.0
	White	60	37 <b>17</b>	73 <b>33</b>	110 <b>50</b>	195 <b>88</b>	25.2	17.8	14.6	8.4
			0.05"Defl 1.3mm	0.1"Defl 2.5mm	0.15"Defl 3.8mm	0.45"Defl 11.4mm	0.05"Defl 1.3mm	0.1"Defl 2.5mm	0.15"Defl 3.8mm	0.45"Defl 11.4mm
6534	Black	30	17 <b>08</b>	33 <b>15</b>	50 <b>23</b>	135 <b>61</b>	15.6	11.0	9.0	5.2
	Green	40	30 <b>14</b>	60 <b>27</b>	90 <b>41</b>	201 <b>91</b>	16.7	11.8	9.6	5.5
	Red	50	47 <b>21</b>	93 <b>42</b>	140 <b>64</b>	294 <b>133</b>	17.1	12.1	9.9	5.7
	White	60	70 <b>32</b>	140 <b>64</b>	210 <b>95</b>	450 <b>205</b>	17.8	12.6	10.3	5.9

Temporary loading may greatly exceed these numbers without damage or permanent set.

**1-1/2" (38mm) Height**



**EAFM 8852**

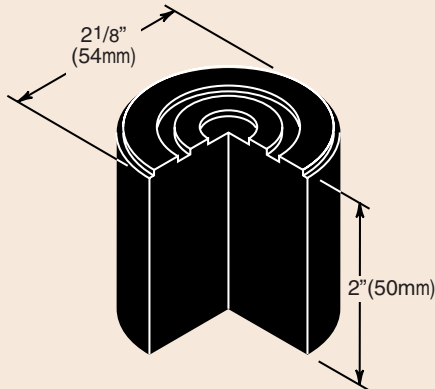


**EAFM 7432**

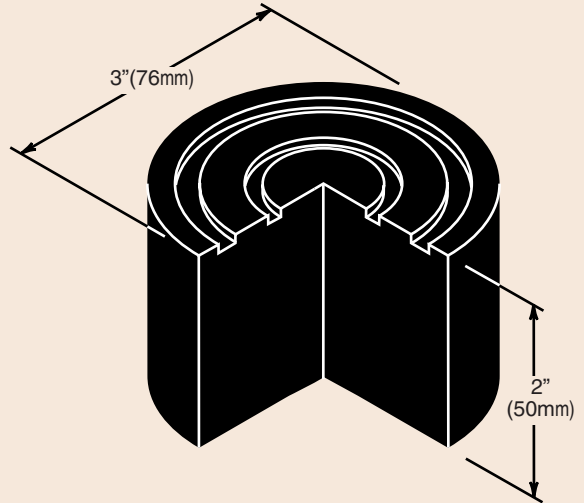
EAFM Designation & Color	Durometer ±5	Load Capacity (lb kg)				Natural Frequency of Mounts with Dynamic Frequency Correction(Hz)				
		Rated Load Range			Temporary Overload	Rated Load Range			Temporary Overload	
		0.075"Defl 1.9mm	0.150"Defl 3.8mm	0.225"Defl 5.7mm	0.675"Defl 17.1mm	0.075"Defl 1.9mm	0.150"Defl 3.8mm	0.225"Defl 5.7mm	0.675"Defl 17.1mm	
8852	Green	40	50 <b>23</b>	100 <b>45</b>	150 <b>68</b>	450 <b>205</b>	13.6	9.6	7.9	4.5
	Red	50	73 <b>33</b>	145 <b>66</b>	220 <b>100</b>	660 <b>300</b>	14.0	9.9	8.0	4.7
	White	60	113 <b>51</b>	225 <b>102</b>	340 <b>155</b>	1020 <b>465</b>	14.5	10.3	8.4	4.8
7432	Green	40	93 <b>42</b>	185 <b>84</b>	280 <b>127</b>	840 <b>380</b>	13.6	9.6	7.9	4.5
	Red	50	139 <b>63</b>	277 <b>126</b>	420 <b>191</b>	1260 <b>570</b>	14.0	9.9	8.0	4.7
	White	60	208 <b>95</b>	416 <b>189</b>	630 <b>286</b>	1890 <b>860</b>	14.5	10.3	8.4	4.8

Temporary loading may greatly exceed these numbers without damage or permanent set.

**2" (50mm) Height**



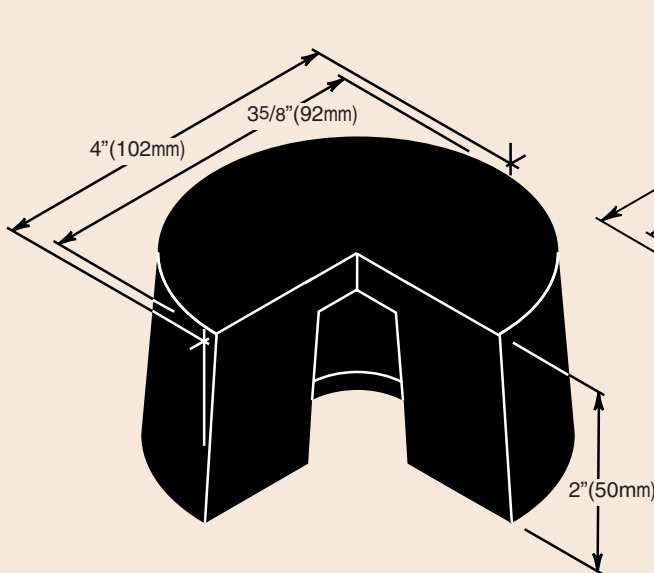
**EAFM 8823**



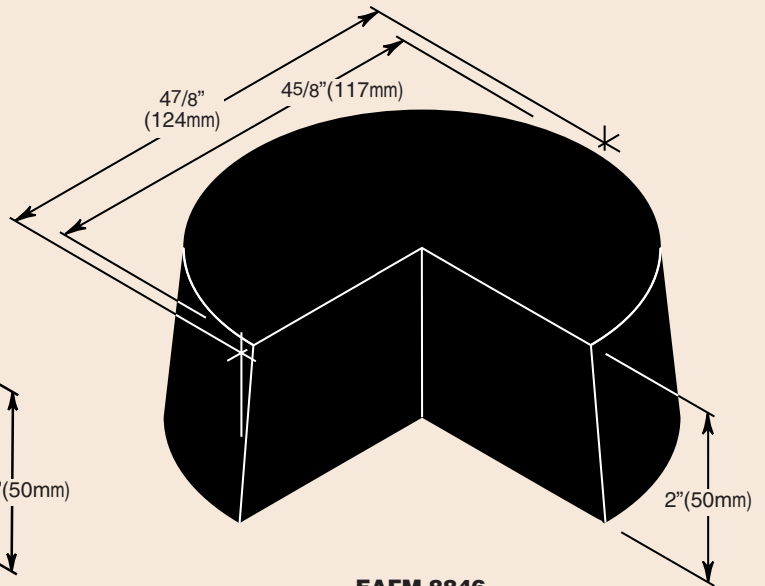
**EAFM 7640**

EAFM Designation & Color	Durometer ±5	Load Capacity (lb kg)				Natural Frequency of Mounts with Dynamic Frequency Correction(Hz)							
		Rated Load Range				Temporary Overload	Rated Load Range			Temporary Overload			
		0.1"Defl 2.5mm	0.2"Defl 5.1mm	0.3"Defl 7.6mm	0.9"Defl 22.9mm	0.1"Defl 2.5mm	0.2"Defl 5.1mm	0.3"Defl 7.6mm	0.9"Defl 22.9mm				
8823	Green	48	22	97	44	145	66	435	197	11.8	8.3	6.8	3.9
	Red	80	36	160	73	240	109	720	327	12.1	8.5	7.0	4.1
	White	120	54	240	109	360	163	1080	490	12.6	9.0	7.3	4.2
7640	Green	167	76	335	152	500	227	1500	680	11.8	8.3	6.8	3.9
	Red	235	107	470	213	700	318	2100	953	12.1	8.5	7.0	4.1
	White	300	136	600	273	900	409	2700	1225	12.6	9.0	7.3	4.2

Temporary loading may greatly exceed these numbers without damage or permanent set.



**EAFM 8452**

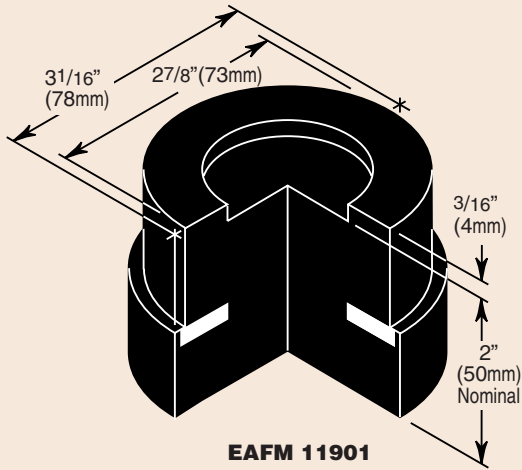


**EAFM 8846**

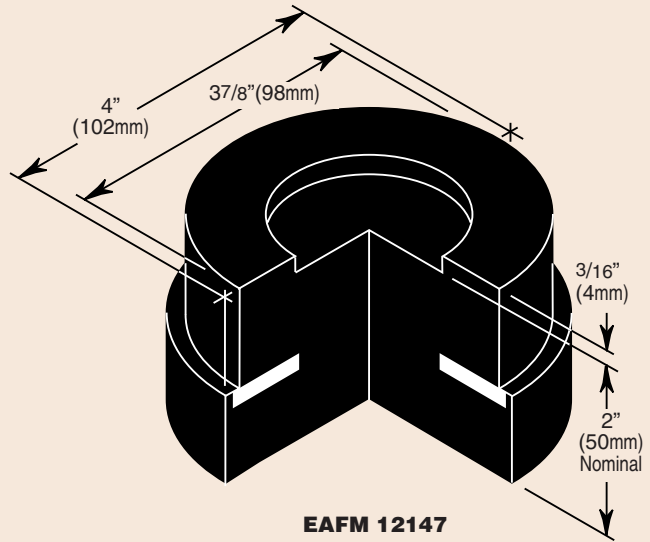
EAFM Designation & Color	Durometer ±5	Load Capacity (lb kg)				Natural Frequency of Mounts with Dynamic Frequency Correction(Hz)							
		Rated Load Range				Temporary Overload	Rated Load Range			Temporary Overload			
		0.1"Defl 2.5mm	0.2"Defl 5.1mm	0.3"Defl 7.6mm	0.9"Defl 22.9mm	0.1"Defl 2.5mm	0.2"Defl 5.1mm	0.3"Defl 7.6mm	0.9"Defl 22.9mm				
8452	Green	167	76	333	151	500	227	1500	681	11.8	8.3	6.8	3.9
	Red	256	116	513	233	770	350	2310	1050	12.1	8.5	7.0	4.1
	White	400	182	800	364	1200	545	3600	1636	12.6	9.0	7.3	4.2
8846	Red	600	273	1200	545	1800	818	5400	2454	12.1	8.5	7.0	4.1
	White	900	409	1800	817	2700	1227	8100	3681	12.6	9.0	7.3	4.2

Temporary loading may greatly exceed these numbers without damage or permanent set.

**2" (50mm) Nominal Height**



**EAFM 11901**

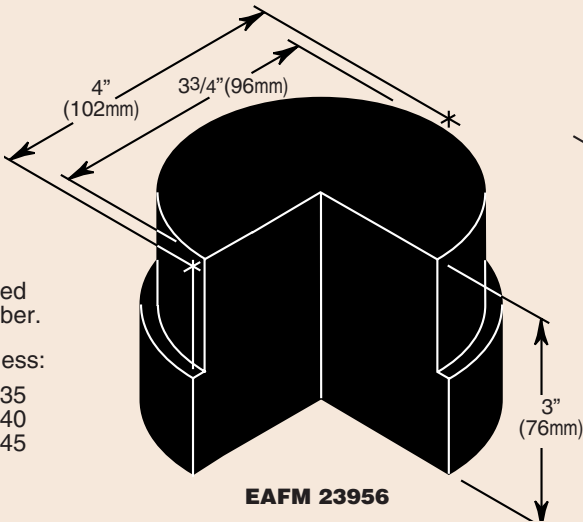


**EAFM 12147**

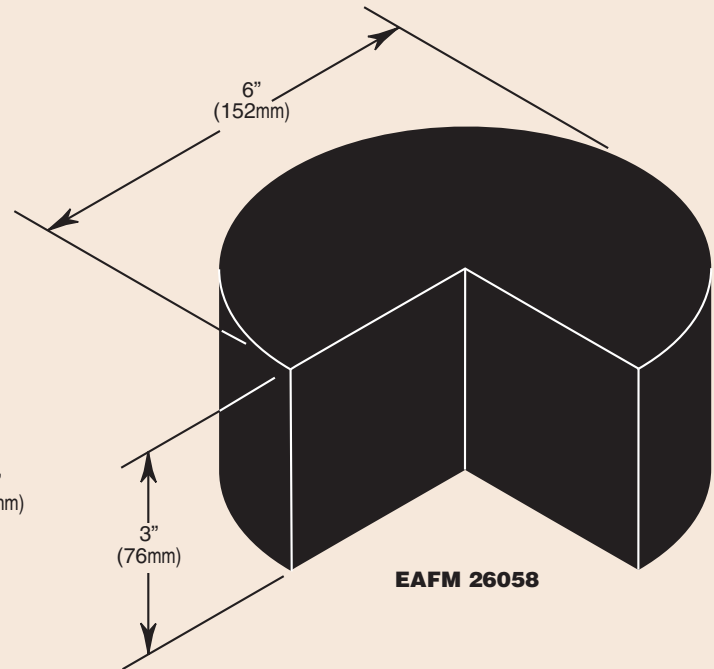
EAFM Designation & Color	Durometer ±5	Load Capacity (lb kg)				Natural Frequency of Mounts with Dynamic Frequency Correction(Hz)				
		Rated Load Range			Temporary Overload	Rated Load Range			Temporary Overload	
		0.1"Defl 2.5mm	0.2"Defl 5.1mm	0.3"Defl 7.6mm	0.9"Defl 22.9mm	0.1"Defl 2.5mm	0.2"Defl 5.1mm	0.3"Defl 7.6mm	0.9"Defl 22.9mm	
11901	Red	50	437 <b>198</b>	875 <b>397</b>	1300 <b>591</b>	3900 <b>1769</b>	12.1	8.5	7.0	4.1
	White	60	570 <b>259</b>	1140 <b>517</b>	1700 <b>773</b>	5200 <b>2359</b>	12.6	9.0	7.3	4.2
12147	Red	50	937 <b>425</b>	1875 <b>852</b>	2800 <b>1273</b>	8400 <b>3810</b>	12.1	8.5	7.0	4.1
	White	60	1175 <b>533</b>	2350 <b>1068</b>	3500 <b>1591</b>	10500 <b>4763</b>	12.6	9.0	7.3	4.2

Temporary loading may greatly exceed these numbers without damage or permanent set.

**3" (76mm) Height**



**EAFM 23956**



**EAFM 26058**

NOTE:  
Normally molded in Natural Rubber.

Dynamic Stiffness:  
40 Duro 1.35  
50 Duro 1.40  
60 Duro 1.45

EAFM Designation & Color	Durometer ±5	Load Capacity (lb kg)				Natural Frequency of Mounts with Dynamic Frequency Correction(Hz)				
		Rated Load Range			Temporary Overload	Rated Load Range			Temporary Overload	
		0.15"Defl 3.8mm	0.3"Defl 7.6mm	0.45"Defl 11.4mm	1.35"Defl 34mm	0.15"Defl 3.8mm	0.3"Defl 7.6mm	0.45"Defl 11.4mm	1.35"Defl 34mm	
23956	Green	40	230 <b>105</b>	460 <b>210</b>	700 <b>320</b>	2100 <b>960</b>	9.7	6.8	5.6	3.2
	Red	50	365 <b>166</b>	730 <b>332</b>	1100 <b>500</b>	3300 <b>1500</b>	9.9	7.0	5.7	3.3
	White	60	500 <b>227</b>	1000 <b>454</b>	1500 <b>680</b>	4500 <b>2040</b>	10.3	7.3	6.0	3.4
26058	Green	40	270 <b>125</b>	540 <b>250</b>	810 <b>375</b>	2430 <b>1125</b>	9.7	6.8	5.6	3.2
	Red	50	750 <b>340</b>	1500 <b>680</b>	2250 <b>1020</b>	6750 <b>3060</b>	9.9	7.0	5.7	3.3
	White	60	950 <b>430</b>	1900 <b>860</b>	2850 <b>1290</b>	8550 <b>3870</b>	10.3	7.3	6.0	3.4

Temporary loading may greatly exceed these numbers without damage or permanent set.