

ASON INDUSTRIES.

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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.

We continued with Neoprene until 2006 when we developed Natural Rubber Compounds with the same life expectancy but much lower dynamic stiffness. These compounds are referred to as LDS. Frequencies in 2 inch (50mm) thickness are now 7 - 8 Hz compared to fiberglass @ 15 Hz. It is hard to understand why fiberglass is still acceptable. Please refer to Bulletin ACS-102-3, page 6 for a complete discussion.

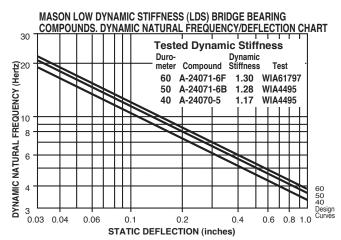
In bridge and overpass work there is a need for very high loadings with pressures as high as 2000 lbs/square inch. If strain is limited to 10 to 15 percent of the pad thickness. both creep and permanent set are very acceptable.

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 almost always manufacture these products in Bridge Bearing Natural Rubber and tool for other sizes and thicknesses. We still supply Neoprene but only on special order.

This arsenal of available sizes encouraged other applications. Standard designs and variations are used as drop hammer shock absorbers, subway and railroad isolators as required. We design and fabricate to virtually all requirements, including squares and rectangles with bonded embedded plates to increase shape factors and capacities, in our own factory.

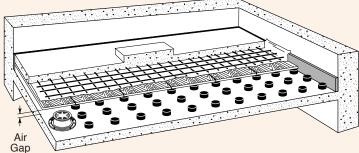


ELASTOMERIC ACOUSTICAL **FLOOR MOUNTINGS** for **FLOATING FLOORS** and OTHER SUITABLE **APPLICATIONS**

EAEM

EAFM-114-3 BULLETIN





Typical EAFM Floating Floor

AASHTO RRIDGE READING SPECIFICATIONS FOR POLVISORDENE

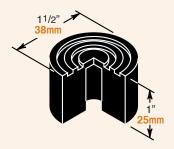
 7701		DUL DL	AIIIII	OI LOII I	DAIIONO	TOTT TOETIOG	/I IILINE		
	INAL PHY			TESTE	COMPRES-				
	PROPERT	ΓIES	OVEN A	AGING(70	hrs/158°F)	OZONE	SION SET	TERM	
Tests: A	ASTM D-224	0 & D-412	A	STM D-5	73	ASTM D-1149	ASTM	CREEP	
Duro-			Hard- Tensile Elongat.			25 pphm in air	D-395	ISO8013	
meter			ness Strength at Brea		at Break	by Vol. 20%	22hrs/158°F		
Snore A			(max) (max) (max)			Strain 100°F	Method B	168 hrs	
	2000 psi				-25%	No Cracks	25%(max)		
50±5	2250 psi	450%	+10%	-25%	-25%	No Cracks	25%(max)	5%(max)	
60±5	0±5 2250 psi 400% +		+10%)% -25% -25%		No Cracks	25%(max)	5%(max)	
70±5	2250 psi	300%	+10%	-25%	-25%	No Cracks	25%(max)	5%(max)	

*AASHTO does not spec 40 Duro. 40 Duro by Mason.

1/2" - 1" 13 - 25mm Height





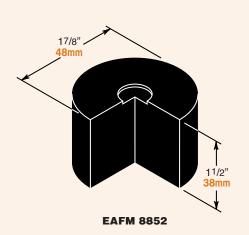


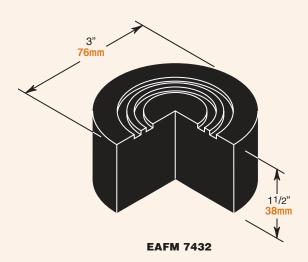
EAFM 6534

			0.025" 0.6mm Deflection		0.050" 1.3mi	m Deflection	0.075" 1.9m	Temporary Overload*		
Desig	AFM Ination Color	Durometer ±5	Loading lbs. kgs.	Frequency Hz	Loading lbs. kgs.	Frequency Hz	Loading lbs. kgs.	Frequency Hz	3X Max Load lbs.	
16114	Green Red White	40 50 60	17 8 25 11 37 17	21.4 22.4 22.5	33	15.1 17.8 16.0	50 23 75 34 110 50	12.4 12.9 13.0	150 225 330	68 102 150
			0.05" 1.3mr	Deflection 0.1" 2.5mr		Deflection	0.15" 3.8mm Deflection			
			Loading lbs. kgs.	Frequency Hz	Loading lbs. kgs.	Frequency Hz	Loading lbs. kgs.	Frequency Hz	lbs.	kgs.
6534	Black Green Red White	30 40 50 60	17 8 30 14 47 21 70 32	14.7 15.1 15.8 16.0	33 15 60 27 93 42 140 64	10.4 10.7 11.2 11.3	50 23 90 41 140 64 210 95	8.5 8.7 9.1 9.2	150 270 420 630	68 122 191 286

^{*}Temporary overload is often mentioned in specifications. We have tested mountings compressed to 50% of their initial thickness. After release there was no permanent set or damage.

11/2" 38mm Height





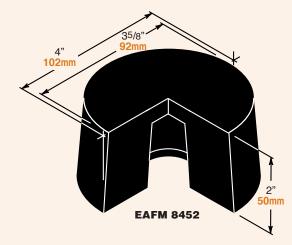
			0.075" 1.9	mm Deflection	0.150" 3.8m	m Deflection	0.225" 5.7m	m Deflection	Tempo Overl	oad*
EAFM Designation & Color		Durometer ±5	Loading lbs. kgs		Loading lbs. kgs.	Frequency Hz	Loading lbs. kgs.	Frequency Hz	3X Max Load lbs.	ding
8852	Green Red White	40 50 60	50 23 73 33 113 51		100 45 145 66 225 102	8.7 9.1 9.2	150 68 220 100 340 155	7.1 7.5 7.6	660	205 300 465
7432	Green Red White	40 50 60	93 42 139 63 208 95	12.9	185 84 277 126 416 189	8.7 9.1 9.2	280 127 420 191 630 286	7.1 7.5 7.6	1260	380 570 860

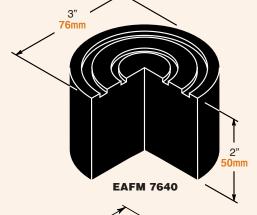
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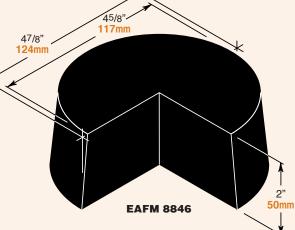
EAFM mounts EAFM-114-3 BULLETIN

2" 50mm Height

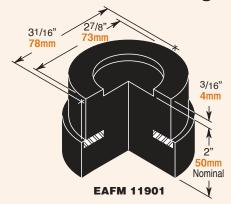


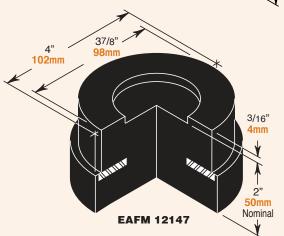






2" 50mm Nominal Height

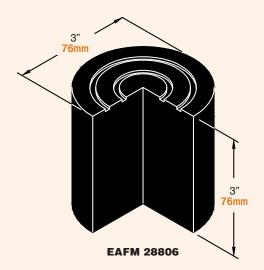




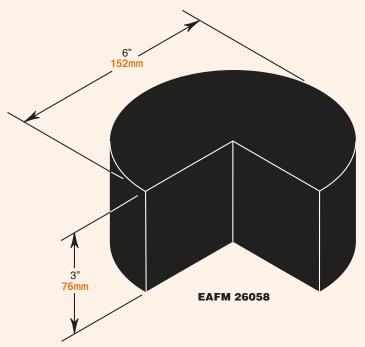
			0.1" 2.5 mn	n Deflection	0.2" 5.1	1mm	Deflection	0.3"	7.6mm	Deflection	Over	oorary load*
EAFM Designation & Color		Durometer ±5	Loading lbs. kgs.	Frequency Hz	Loadir Ibs. k	ng (gs.	Frequency Hz	Load	ding kgs.	Frequency Hz		ximum ding kgs.
8823	Green Red White	40 50 60	48 22 80 36 120 54	10.7 11.2 11.3	160	44 73 109	7.6 7.9 8.0	145 240 360	66 109 163	6.2 6.4 6.5	435 720 1080	197 327 490
7640	Green Red White	40 50 60	140 64 200 92 300 136	10.7 11.2 11.3	400 1	127 181 273	7.6 7.9 8.0	420 600 900	191 272 409	6.2 6.4 6.5	1260 1800 2700	572 816 1225
8452	Green Red White	40 50 60	167 76 256 116 400 182	10.7 11.2 11.3	513 2	151 233 364	7.6 7.9 8.0	500 770 1200	227 350 545	6.2 6.4 6.5	1500 2310 3600	681 1050 1636
8846	Red White	50 60	600 273 900 409	11.2 11.3		545 317	7.9 8.0	1800 2700	818 1227	6.4 6.5	5400 8100	2454 3681
11901	Red White	50 60	368 167 520 236	11.2 11.3		333 172	7.9 8.0	1100 1550	499 703	6.4 6.5	3300 4650	1497 2109
12147	Red White	50 60	667 303 1075 488	11.2 11.3		606 975	7.9 8.0	2000 3200	907 1451	6.4 6.5	6000 9600	2722 4354

^{*}Temporary overload is often mentioned in specifications. We have tested mountings compressed to 50% of their initial thickness. After release there was no permanent set or damage.

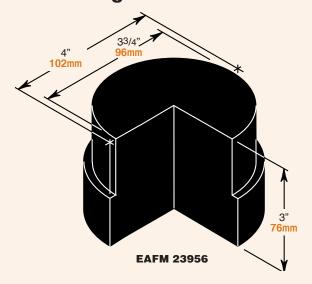
3" 76mm Height



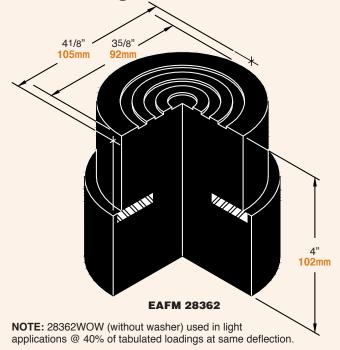
3" 76mm Height



3" 76mm Height



4" 100mm Height



		0.15" 3.8n	nm Deflection	0.3"	7.6mm	Deflection	0.45"	l 1.4mn	n Deflection	Over	
EAFM Designation & Color	Durometer ±5	Loading lbs. kgs			ding kgs.	Frequency Hz	Loa lbs.	ding kgs.	Frequency Hz	3X Ma Loa lbs.	ximum ding kgs.
Green	40	75 34 125 56 200 90	8.7	150	68	6.2	225	102	5.0	675	306
28806 Red	50		9.1	250	113	6.4	375	170	5.2	1125	510
White	60		9.2	400	181	6.5	600	272	5.3	1800	816
Green	40	230 105	8.7	460	210	6.2	700	320	5.0	2100	960
23956 Red	50	365 166	9.1	730	332	6.4	1100	500	5.2	3300	1500
White	60	500 227	9.2	1000	454	6.5	1500	680	5.3	4500	2040
Green	40	270 125	9.1	540	250	6.2	810	375	5.0	2430	1125
26058 Red	50	750 340		1500	680	6.4	2250	1020	5.2	6750	3060
White	60	950 430		1900	860	6.5	2850	1290	5.3	8560	3870
		0.20" 5.1n	nm Deflection	0.40" 1	10.2mr	n Deflection	0.60" 1	5.2mm	n Deflection		
		Loading lbs. kgs	1		ding kgs.	Frequency Hz	Load lbs.	ing kgs.	Frequency Hz	lbs.	kgs.
Green	40	160 73	7.0	435	197	5.0	660	299	4.2	1880	853
28362 Red	50	370 168	8.0	725	329	5.5	1100	499	4.6	3300	1497
White	60	450 204	8.5	1200	544	6.0	1830	830	5.0	5498	2492

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