



MASON INDUSTRIES, Inc.

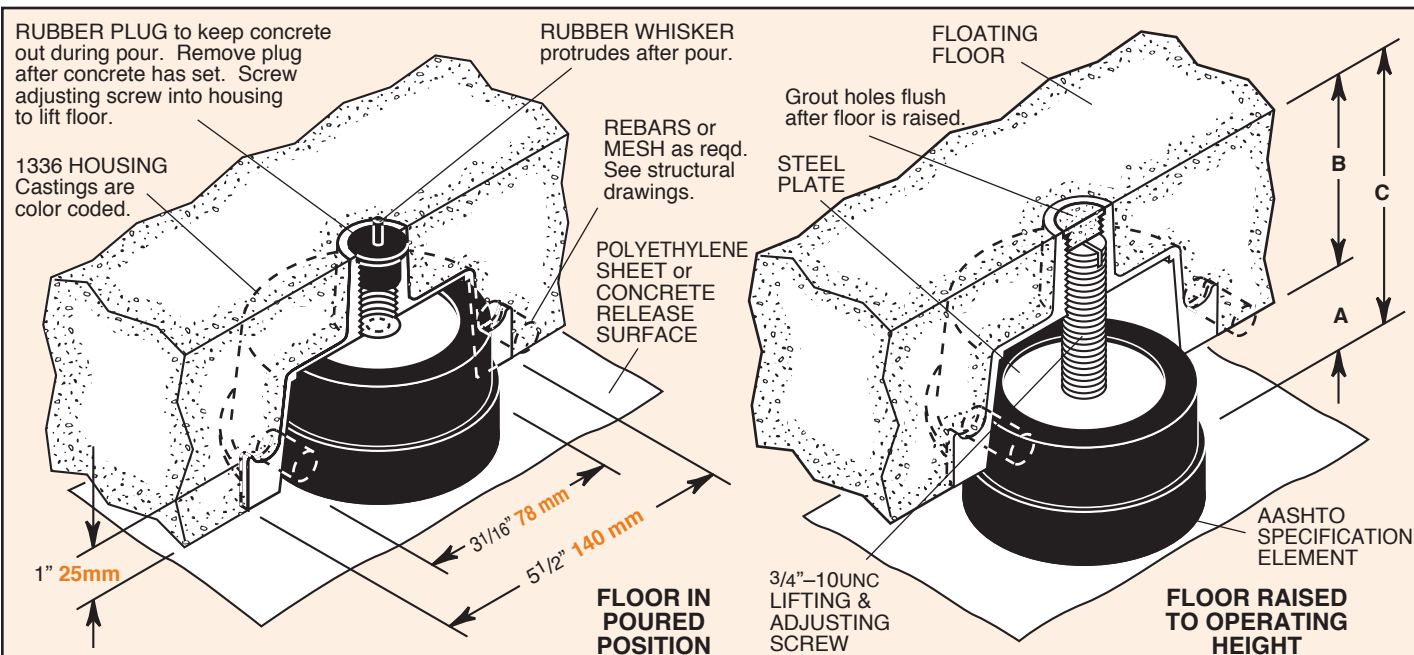
Manufacturers of Vibration Control Products

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FLOATING FLOOR LDS JACK-UP MOUNTINGS

TYPE FSN

DATA SHEET DS-50-4



TYPE FSN RATINGS (1336 Housing)

Type	Size	EAFM LDS Element			Load Capacity				Casting Color Code
		Element No.	Color Mark	Duro-meter ±5	0.2" Defl (lbs)	5 mm Defl (kgs)	0.3" Defl (lbs)	8 mm Defl (kgs)	
FSN*-(3,4,5,6)	500	12530	Green	40	335	152	500	227	Green
	700	12530	Red	50	470	214	700	318	Red
	900	12530	White	60	600	273	900	409	White
	1300	11901	Red	50	875	396	1300	590	Orange
	1700	11901	White	60	1140	517	1700	771	Yellow

A Air Gap	B Floor Thickness	C Overall Height
Most Common 1" or 2"	3" 75mm - Minimum 4" 100mm - Most Common	Air Gap Plus Floor Thickness
25 or 50mm	5" 125mm - Seldom	
Occasionally 3" or 4"	6" 150mm - Common	Thicker Floors or Fractional Dimensions As Required
75 or 100mm		

*FSN Housing Height matches floor thickness. Housing suffix indicates housing height, i.e. FSN4 indicates 4" 100mm floor and housing; FSN6, 6" 150mm floor and housing, etc.

NOTE: Castings can be modified for floors over 6" 150mm thick.

Mounts are designed for 0.3" 8 mm maximum deflection under constant load. Temporary loadings may greatly exceed these numbers without damage or permanent set. See graph below right.

All mountings are molded to AASHTO specifications

The theoretical natural frequency of mounts without Dynamic Stiffness correction: At 0.2" 5 mm - 7.0 Hz, At 0.3" 8 mm - 5.7 Hz

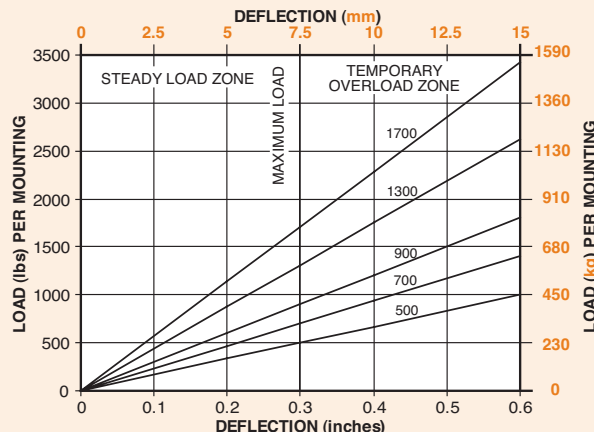
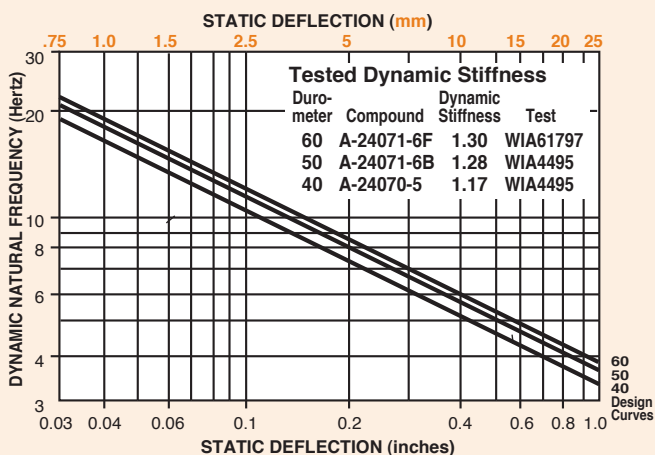
Actual frequencies may be read from the chart below.

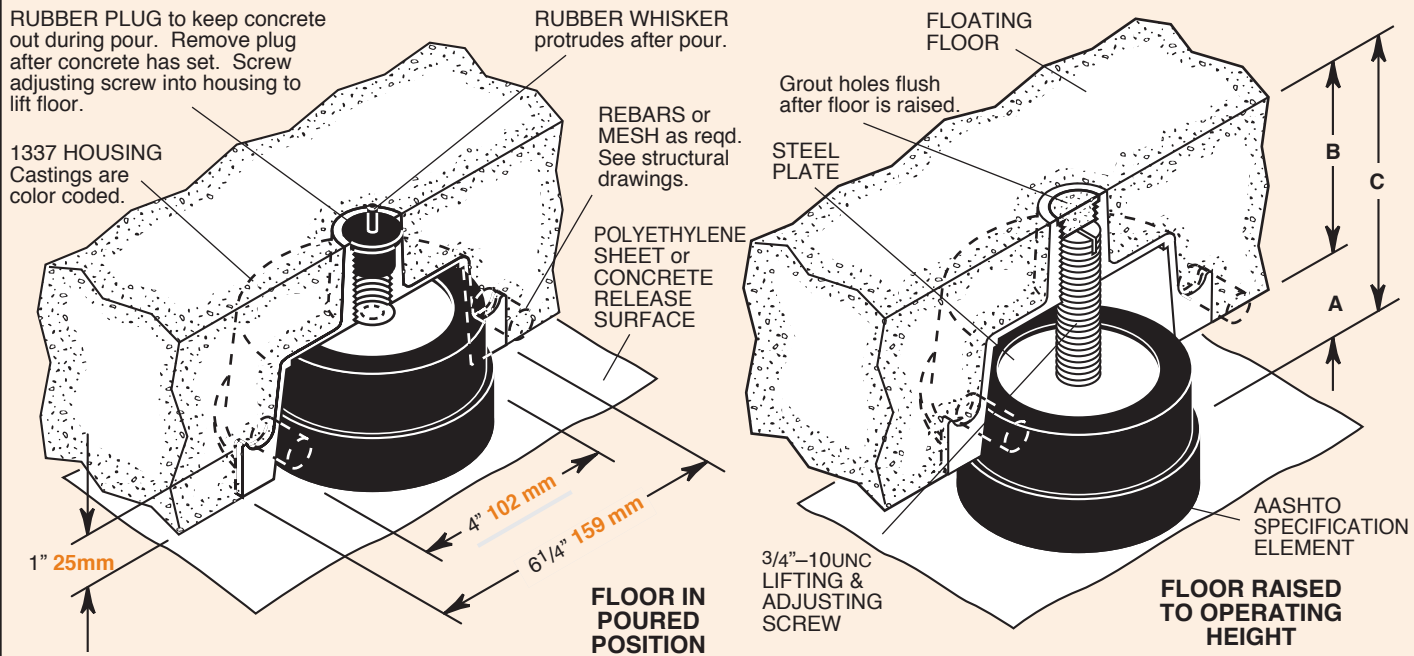
AASHTO BRIDGE BEARING SPECIFICATIONS FOR POLYISOPRENE

ORIGINAL PHYSICAL PROPERTIES	TESTED FOR AGING			COMPRESSION SET	LONG TERM CREEP
	OVEN AGING (70hrs/158°F)	ASTM D-573	OZONE		
Tests: ASTM D-2240 & D-412	ASTM D-573	ASTM D-1149	ASTM D-395	22hrs/158°F Method B	168hrs
Duro-meter Strength at Break Shore A (min)	Hard-ness (min)	Tensile Strength at Break (max)	Elongat. (max)	25 pphm in air by Vol. 20% Strain 100°F	ISO8013
40±5 2000 psi 500%	+10%	-25%	-25%	No Cracks	5%(max)
50±5 2250 psi 450%	+10%	-25%	-25%	No Cracks	5%(max)
60±5 2250 psi 400%	+10%	-25%	-25%	No Cracks	5%(max)
70±5 2250 psi 300%	+10%	-25%	-25%	No Cracks	5%(max)

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

MASON LOW DYNAMIC STIFFNESS (LDS) BRIDGE BEARING COMPOUNDS. DYNAMIC NATURAL FREQUENCY/DEFLECTION CHART





TYPE FSN RATINGS (1337 Housing)

Type	Size	EAFM LDS Element			Load Capacity				Casting Color Code
		Element No.	Color Mark	Duro-meter ±5	0.2" Defl (lbs)	5 mm Defl (kgs)	0.3" Defl (lbs)	8 mm Defl (kgs)	
FSN*-(3,4,5,6)	2500	12147	Red	50	1675	760	2500	1134	Black
	3500	12147	White	60	2350	1066	3500	1588	Gray

*FSN Housing Height matches floor thickness. Housing suffix indicates housing height, i.e. FSN4 indicates 4" 100mm floor and housing; FSN6, 6" 150mm floor and housing, etc.

NOTE: Castings can be modified for floors over 6" 150mm thick.

A Air Gap	B Floor Thickness	C Overall Height
Most Common 1" or 2" 25 or 50mm	3" 75mm - Minimum 4" 100mm - Most Common 5" 125mm - Seldom	Air Gap Plus Floor Thickness
Occasionally 3" or 4" 75 or 100mm	6" 150mm - Common Thicker Floors or Fractional Dimensions As Required	

Mounts are designed for 0.3" 8 mm maximum deflection under constant load. Temporary loadings may greatly exceed these numbers without damage or permanent set. See graph below right.

All mountings are molded to AASHTO specifications.

The theoretical natural frequency of mounts without Dynamic Stiffness correction:

At 0.2" 5 mm - 7.0 Hz, At 0.3" 8 mm - 5.7 Hz

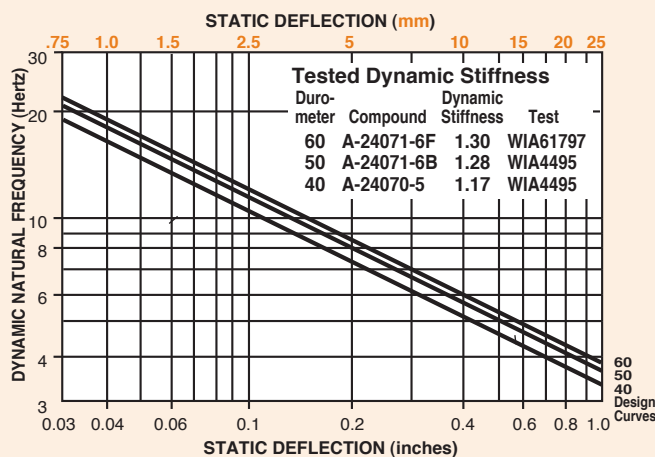
Actual frequencies may be read from the chart below.

AASHTO BRIDGE BEARING SPECIFICATIONS FOR POLYISOPRENE

ORIGINAL PHYSICAL PROPERTIES			TESTED FOR AGING			COMPRES-SION SET	LONG TERM CREEP
Tests: ASTM D-2240 & D-412			OVEN AGING (70hrs/158°F) ASTM D-573				
Duro-meter Shore A	Tensile Strength at Break (min)	Elongat. at Break (min)	Hard-ness (max)	Tensile Strength at Break (max)	Elongat. at Break (max)	25 pphm in air by Vol. 20% Strain 100°F	
40±5	2000 psi	500%	+10%	-25%	-25%	No Cracks	5%(max)
50±5	2250 psi	450%	+10%	-25%	-25%	No Cracks	5%(max)
60±5	2250 psi	400%	+10%	-25%	-25%	No Cracks	5%(max)
70±5	2250 psi	300%	+10%	-25%	-25%	No Cracks	5%(max)

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MASON LOW DYNAMIC STIFFNESS (LDS) BRIDGE BEARING COMPOUNDS. DYNAMIC NATURAL FREQUENCY/DEFLECTION CHART



LOAD DEFLECTION CURVES

