



# MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

350 Rabro Drive  
Hauppauge, NY 11788  
631/348-0282  
FAX 631/348-0279  
Info@Mason-Ind.com

2101 W. Crescent Ave., Suite D  
Anaheim, CA 92801  
714/535-2727  
FAX 714/535-5738  
Info@MasonAnaheim.com  
www.Mason-Ind.com

JOB NAME \_\_\_\_\_  
CUSTOMER \_\_\_\_\_  
CUSTOMER P.O. \_\_\_\_\_  
MASON M. \_\_\_\_\_  
DWG No. \_\_\_\_\_

# FSN

LDS Jack-up  
Assembly  
Housing  
1336

RUBBER PLUG to keep concrete out during pour. Remove plug after concrete has set. Screw adjusting screw into housing to lift floor.

1336 HOUSING  
Castings are color coded.

RUBBER WHISKER protrudes after pour.

REBARS or MESH as reqd. See structural drawings.

POLYETHYLENE SHEET or CONCRETE RELEASE SURFACE

1" 25mm

31/16" 78 mm

51/2" 140 mm

FLOOR IN  
POURED  
POSITION

FLOATING  
FLOOR

Grout holes flush after floor is raised.

STEEL  
PLATE

3/4"-10UNC  
LIFTING &  
ADJUSTING  
SCREW

FLOOR RAISED  
TO OPERATING  
HEIGHT

AASHTO  
SPECIFICATION  
ELEMENT

## TYPE FSN RATINGS (1336 Housing)

Type	Size	EAFM LDS Element				Load Capacity				Casting Color Code
		Element No.	Color Mark	Duro-meter $\pm 5$		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

\*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 6" 150mm- Common Thicker Floors or Fractional Dimensions As Required	Air Gap Plus Floor Thickness
Occasionally 3" or 4" 75 or 100mm		

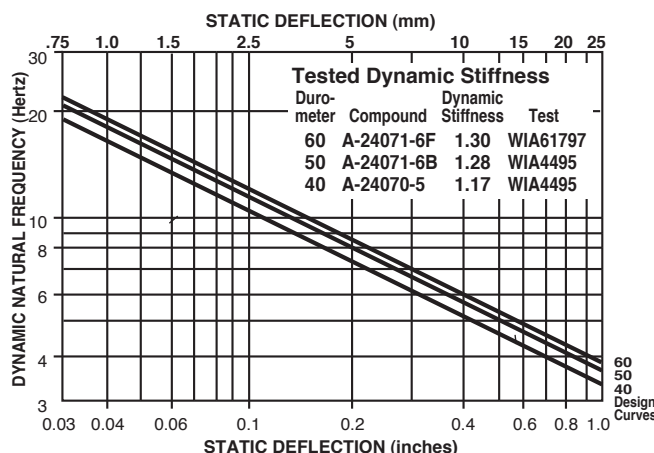
Mounts are designed for 0.3" 8 mm maximum deflection under constant load. Temporary loadings may greatly exceed these numbers without damage or permanent set. See graph below right.

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.

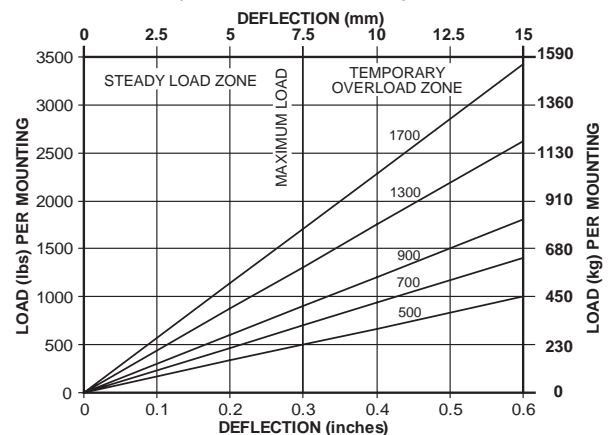
## MASON LOW DYNAMIC STIFFNESS (LDS) BRIDGE BEARING COMPOUNDS. DYNAMIC NATURAL FREQUENCY/DEFLECTION CHART



## 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)		OZONE	ASTM D-395	ISO8013	
ASTM D-573			ASTM D-1149					
Duro- meter	Tensile Strength	Elongat. at Break	Hard- ness	Tensile Strength	Elongat. at Break	25 pphm in air by Vol. 20% Strain 100°F	22hrs/158°F Method B	168 hrs
Shore A	(min)	(min)	(max)	(max)	(max)			
40±5	2000 psi	500%	+10%	-25%	-25%	No Cracks	25%(max)	5%(max)
50±5	2250 psi	450%	+10%	-25%	-25%	No Cracks	25%(max)	5%(max)
60±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.





# MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

350 Rabro Drive  
Hauppauge, NY 11788  
631/348-0282  
FAX 631/348-0279  
Info@Mason-Ind.com

2101 W. Crescent Ave., Suite D  
Anaheim, CA 92801  
714/535-2727  
FAX 714/535-5738  
Info@MasonAnaheim.com  
www.Mason-Ind.com

JOB NAME \_\_\_\_\_  
CUSTOMER \_\_\_\_\_  
CUSTOMER P.O. \_\_\_\_\_  
MASON M. \_\_\_\_\_  
DWG No. \_\_\_\_\_

# FSN

LDS Jack-up  
Assembly  
Housing  
1337

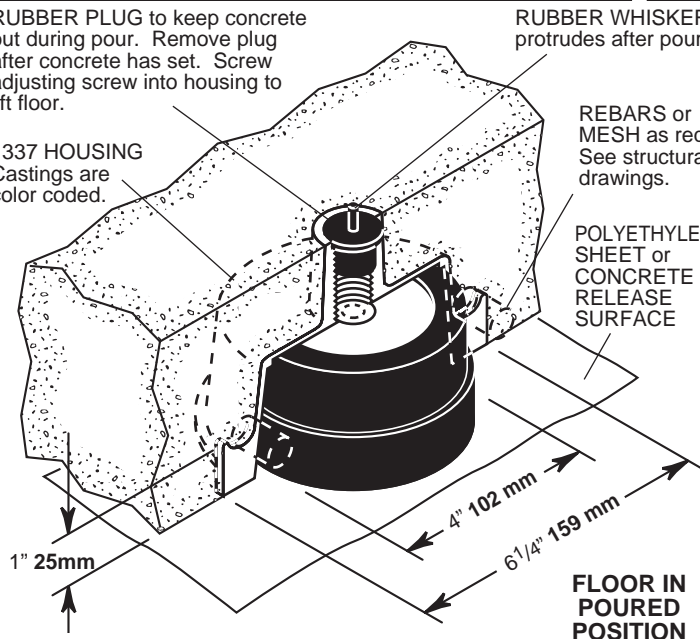
RUBBER PLUG to keep concrete out during pour. Remove plug after concrete has set. Screw adjusting screw into housing to lift floor.

1337 HOUSING  
Castings are color coded.

RUBBER WHISKER protrudes after pour.

REBARs or MESH as reqd. See structural drawings.

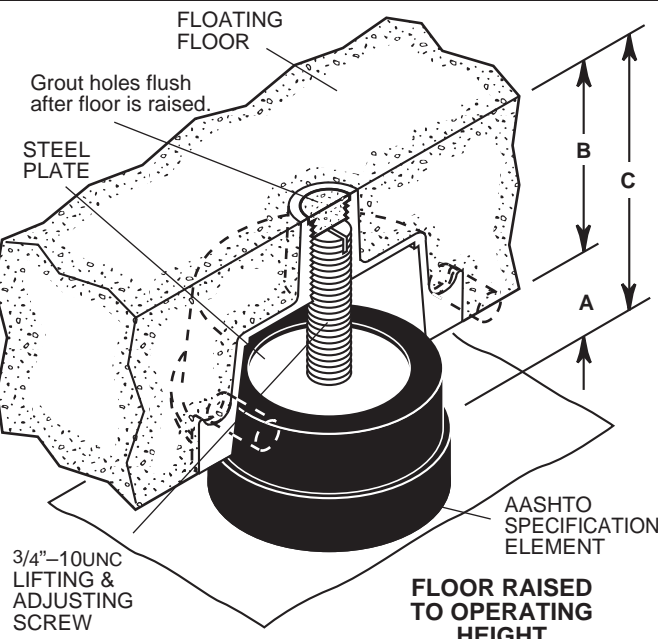
POLYETHYLENE SHEET or CONCRETE RELEASE SURFACE



FLOOR IN  
POURED  
POSITION

Grout holes flush after floor is raised.

STEEL PLATE



3/4"-10UNC  
LIFTING &  
ADJUSTING  
SCREW

FLOOR RAISED  
TO OPERATING  
HEIGHT

AASHTO  
SPECIFICATION  
ELEMENT

## TYPE FSN RATINGS (1337 Housing)

Type	Size	EAFM LDS Element		Duro- meter ±5	Load Capacity				Casting Color Code
		Element No.	Color Mark		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 6" 150mm- Common	Air Gap Plus Floor Thickness
Occasionally 3" or 4" 75 or 100mm	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.

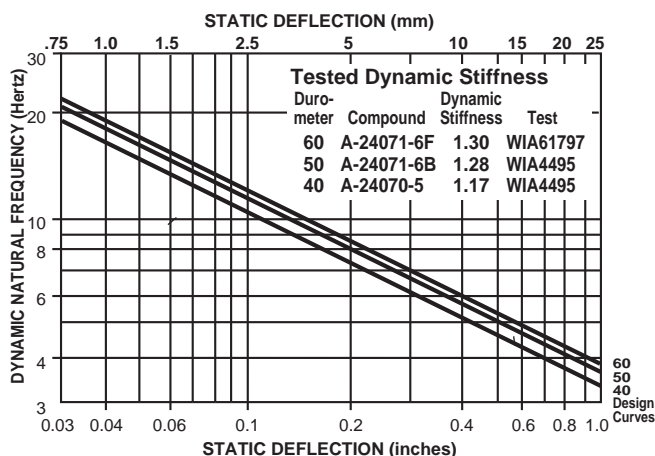
All mountings are molded to AASHTO specifications.

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.

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

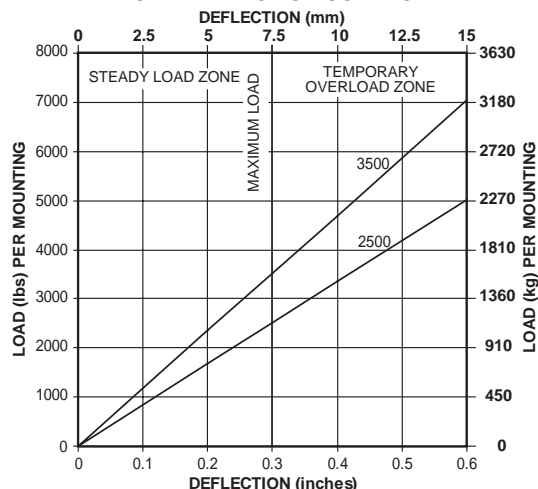


## AASHTO BRIDGE BEARING SPECIFICATIONS FOR POLYISOPRENE

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	OZONE	ASTM D-395	ISO8013
Duro- Tensile Elongat. meter Strength at Break Shore A (min)	Hard- Tensile Elongat. ness Strength at Break (max)	25 pphm in air by Vol. 20% Strain 100°F	22hrs/158°F Method B	168hrs	
40±5* 2000 psi 500%	+10% -25% -25%	No Cracks	25%(max)	5%(max)	
50±5 2250 psi 450%	+10% -25% -25%	No Cracks	25%(max)	5%(max)	
60±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.

## LOAD DEFLECTION CURVES



Certification Form S-002 10/2010

DWN

CHKD

DATE

DWG No.