STORM ENGINEERING
VIBRATION ISOLATION · NOISE CONTROL · ENGINEERING

KINETICS™
Elastomeric Isolators
Model NP and NG

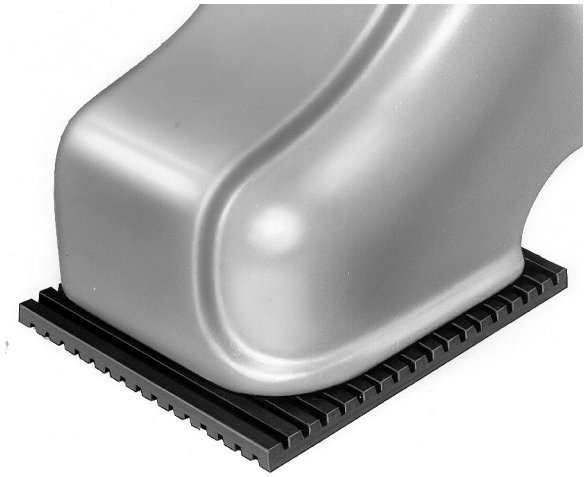
Features
- Single and double ribbed neoprene pads
- Combination ribbed pads and steel shims
- Alternately higher and lower ribs for maximum deflection
- True elastomer-in-shear loading capacities from (4.2 or 8.4 kg/cm^2)
- Static deflections up to 0.19" (5 mm)
- Oil and corrosion resistant

Description
Kinetics Model NP and NG Pads are produced from a high quality elastomer and are available in single ribbed or crossed double ribbed in one or more layers separated with steel shims. Pads are 45 or 65 durometer and are designed for 60 or 120 PSI (4.2 or 8.4 kg/cm^2) maximum loading. The elastomer is oil and water resistant and has been designed to operate within the strain limits of the isolator and to provide long life expectancy. NP Pads are available with rated deflections from 0.04" to 0.09" (1 mm to 2 mm). NG Pads are available with rated deflections from 0.13" to 0.19" (3 mm to 5 mm). Pads are available in 4", 6", or 9" (102, 152, 228 mm) squares with capacities from 400 to 9,700 lbs. (181 to 4400 kg), or in full 18" (457 mm) square sheets which can be cut or drilled to meet field requirements. Kinetics Model NP or NG Pads can be used to isolate noise, shock, and high frequency vibration produced by mechanical, industrial, or process equipment located on grade or in other non-critical areas.

Application
Kinetics Model NPS, NPD, NGS, and NGD ribbed elastomer isolation pads can be used to isolate noise, shock, and high frequency vibration, generated by mechanical equip-ment and industrial machinery located on a grade-supported structural slab.

Typical applications for ribbed neoprene isolation pads are limited to pad loadings of 60 PSI (4.2 kg/cm^2) for 45 durometer material, and 120 PSI (8.4 kg/cm^2) for 65 durometer material, and used with equipment having minimum operating speeds of 3600 RPM.

Typically, pad sizes are selected to uniformly transfer 60 PSI (4.2 kg/cm^2) steady state loads to supporting structure. Model NPS, NPD, NGS, and NGD pads have been designed to provide 60 PSI (4.2 kg/cm^2) of load capacity, and optimum isolation efficiency for each thickness, without exceeding strain limits of the material. Under impact, the load capacity of the pads is reduced by 50%, and 120 PSI (8.4 kg/cm^2), 65 durometer material is used.



Specifications
Isolation pads shall be single ribbed or crossed, double ribbed elastomer-in-shear pads, in combination with steel shims when required, having minimum static deflections as tabulated.

All pads shall be true elastomer-in-shear using alternately higher and lower ribs to provide effective vibration isolation, and shall be molded using 2500 PSI (176 kg/cm^2) tensile strength, oil resistant compounds with no color additives.

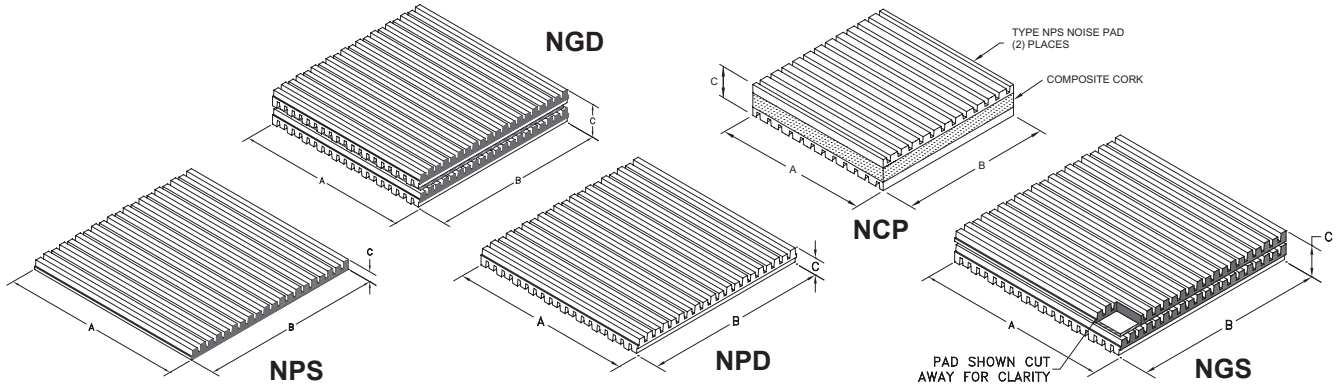
Pads shall be 45 to 65 durometer and designed to permit 60 or 120 PSI (4.2 or 8.4 kg/cm^2) loading at maximum rated deflections.

When two isolation pads are laminated, they shall be separated by, and bonded to, a galvanized steel shim plate.

Neoprene vibration isolators shall have minimum operating static deflections as shown on the Vibration Isolation Schedule or as indicated on the project bid documents, but not exceeding published load capabilities.

Neoprene vibration isolators shall be Model NPS, NPD, NGS or NGD, as manufactured by Kinetics Noise Control, Inc.

Isolator Type	Maximum Deflection		Operating Height		Capacity Range		A		B		C	
	in	mm	in	mm	lbs	kg	in	mm	in	mm	in	mm
NGS-4-45	0.14	3.6	0.48	12.2	400 - 950	181 - 431	4.00	102	4.00	102	0.65	17
NGS-4-65	0.13	3.3	0.49	12.4	720 - 1925	327 - 873	4.00	102	4.00	102	0.65	17
NGS-6-45	0.14	3.6	0.55	14.0	900 - 2150	408 - 975	6.00	152	6.00	152	0.71	18
NGS-6-65	0.13	3.3	0.56	14.2	1600 - 4300	726 - 1950	6.00	152	6.00	152	0.71	18
NGS-9-45	0.14	3.6	0.55	14.0	2000 - 4850	907 - 2200	9.00	229	9.00	229	0.71	18
NGS-9-65	0.13	3.3	0.56	14.2	3650 - 9700	1656 - 4400	9.00	229	9.00	229	0.71	18
NGD-4-45	0.19	4.8	0.62	15.7	400 - 950	181 - 431	4.00	102	4.00	102	0.81	21
NGD-4-65	0.17	4.3	0.63	16.0	720 - 1925	327 - 873	4.00	102	4.00	102	0.81	21
NGD-6-45	0.19	4.8	0.68	17.3	900 - 2150	408 - 975	6.00	152	6.00	152	0.87	22
NGD-6-65	0.17	4.3	0.70	17.8	1600 - 4300	726 - 1950	6.00	152	6.00	152	0.87	22
NGD-9-45	0.19	4.8	0.68	17.3	2000 - 4850	907 - 2200	9.00	229	9.00	229	0.87	22
NGD-9-65	0.17	4.3	0.70	17.8	3650 - 9700	1656 - 4400	9.00	229	9.00	229	0.87	22
NPS-2-45	0.05	1.3	0.17	4.3	100 - 240	45 - 109	2.00	51	2.00	51	0.22	6
NPS-2-65	0.04	1.0	0.18	4.5	180 - 480	82 - 218	2.00	51	2.00	51	0.22	6
NPS-3-45	0.05	1.3	0.17	4.3	225 - 540	102 - 245	3.00	76	3.00	76	0.22	6
NPS-3-65	0.04	1.0	0.18	4.5	405 - 1080	184 - 490	3.00	76	3.00	76	0.22	6
NPS-4-45	0.05	1.3	0.17	4.3	400 - 960	181 - 435	4.00	102	4.00	102	0.22	6
NPS-4-65	0.04	1.0	0.18	4.5	720 - 1920	327 - 871	4.00	102	4.00	102	0.22	6
NPS-6-45	0.05	1.3	0.17	4.3	900 - 2160	408 - 980	6.00	152	6.00	152	0.22	6
NPS-6-65	0.04	1.0	0.18	4.5	1620 - 4320	735 - 1960	6.00	152	6.00	152	0.22	6
NPS-9-45	0.05	1.3	0.17	4.3	2025 - 4860	919 - 2204	9.00	229	9.00	229	0.22	6
NPS-9-65	0.04	1.0	0.18	4.5	3645 - 9720	1653 - 4409	9.00	229	9.00	229	0.22	6
NPS-18-45	0.05	1.3	0.17	4.3	8100 - 19440	1674 - 8818	18.00	457	18.00	457	0.22	6
NPS-18-65	0.04	1.0	0.18	4.5	14520 - 38880	6613 - 17636	18.00	457	18.00	457	0.22	6
NPD-2-45	0.09	2.3	0.29	7.2	100 - 240	45 - 109	2.00	51	2.00	51	0.38	10
NPD-2-65	0.08	2.0	0.30	7.5	180 - 480	82 - 218	2.00	51	2.00	51	0.38	10
NPD-3-45	0.09	2.3	0.29	7.2	225 - 540	102 - 245	3.00	76	3.00	76	0.38	10
NPD-3-65	0.08	2.0	0.30	7.5	405 - 1080	184 - 490	3.00	76	3.00	76	0.38	10
NPD-4-45	0.09	2.3	0.29	7.2	400 - 960	181 - 435	4.00	102	4.00	102	0.38	10
NPD-4-65	0.08	2.0	0.30	7.5	720 - 1920	327 - 871	4.00	102	4.00	102	0.38	10
NPD-6-45	0.09	2.3	0.29	7.2	900 - 2160	408 - 980	6.00	152	6.00	152	0.38	10
NPD-6-65	0.08	2.0	0.30	7.5	1620 - 4320	735 - 1960	6.00	152	6.00	152	0.38	10
NPD-9-45	0.09	2.3	0.29	7.2	2025 - 4860	919 - 2204	9.00	229	9.00	229	0.38	10
NPD-9-65	0.08	2.0	0.30	7.5	3645 - 9720	1653 - 4409	9.00	229	9.00	229	0.38	10
NPD-18-45	0.09	2.3	0.29	7.2	8100 - 19440	3674 - 8818	18.00	457	18.00	457	0.38	10
NPD-18-65	0.08	2.0	0.30	7.5	14520 - 38880	6613 - 17636	18.00	457	18.00	457	0.38	10
NCP-2	-	-	-	-	100 - 300	45 - 136	2.00	51	2.00	51	0.88	22
NCP-3	-	-	-	-	225 - 675	102 - 307	3.00	76	3.00	76	0.88	22
NCP-4	-	-	-	-	400 - 1200	182 - 545	4.00	102	4.00	102	0.88	22
NCP-6	-	-	-	-	900 - 2700	409 - 1226	6.00	152	6.00	152	0.88	22
NCP-18	-	-	-	-	8100 - 24300	3677 - 11046	18.00	457	18.00	457	0.88	22



kineticsnoise.com
sales@kineticsnoise.com
1-800-959-1229

NPD NEOPRENE PAD

S-I UNITS (MM AND KG)

TYPE	A	B	C
NPD-2-45/65	51	51	10
NPD-3-45/65	76	76	10
NPD-4-45/65	102	102	10
NPD-6-45/65	152	152	10
NPD-9-45/65	229	229	10
NPD-18-45/65	457	457	10

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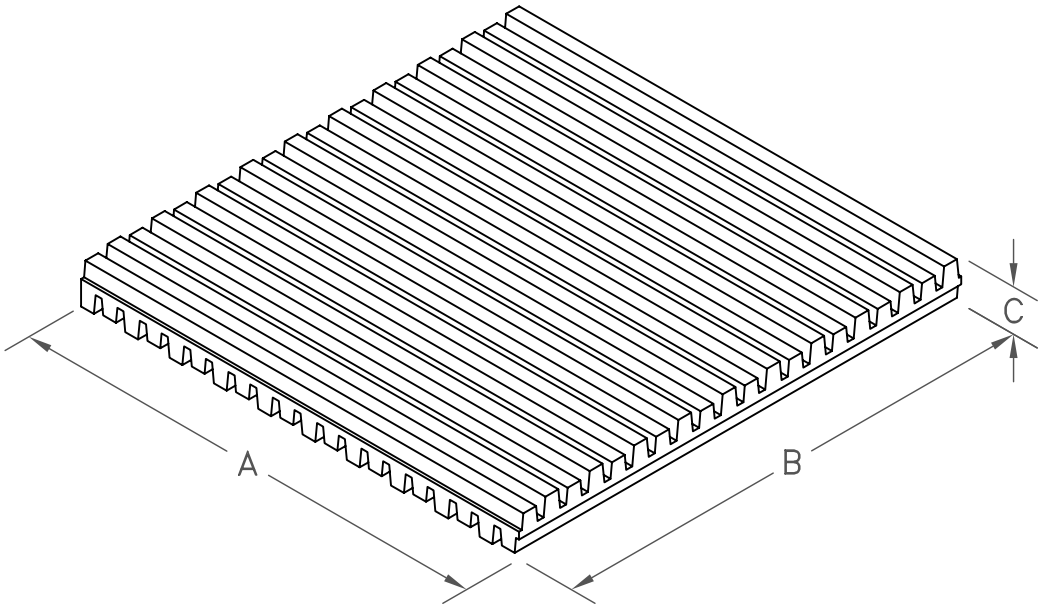
STANDARD RATINGS

TYPE	MAX. DEFL.	OP. HT.	CAPACITY RANGE
NPD-2-45	2.3	7.2	45 - 109
NPD-2-65	2.0	7.5	82 - 218
NPD-3-45	2.3	7.2	102 - 245
NPD-3-65	2.0	7.5	184 - 490
NPD-4-45	2.3	7.2	181 - 435
NPD-4-65	2.0	7.5	327 - 871
NPD-6-45	2.3	7.2	408 - 980
NPD-6-65	2.0	7.5	735 - 1960
NPD-9-45	2.3	7.2	919 - 2204
NPD-9-65	2.0	7.5	1653 - 4409
NPD-18-45	2.3	7.2	3674 - 8818
NPD-18-65	2.0	7.5	6613 - 17636



NOTES:

- NPD-45 IS 45 DUROMETER
- NPD-65 IS 65 DUROMETER

KINETICS Noise Control

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www.kineticsnoise.com

Model: NPD PAD

By: JMJ
Date: 05/16/03
Revised: 10/27/06 / BK

Drawing No: S-02.02-12 METRIC

NPS NEOPRENE PAD

S-I UNITS (MM AND KG)

TYPE	A	B	C
NPS-2-45/65	51	51	6
NPS-3-45/65	76	76	6
NPS-4-45/65	102	102	6
NPS-6-45/65	152	152	6
NPS-9-45/65	229	229	6
NPS-18-45/65	457	457	6

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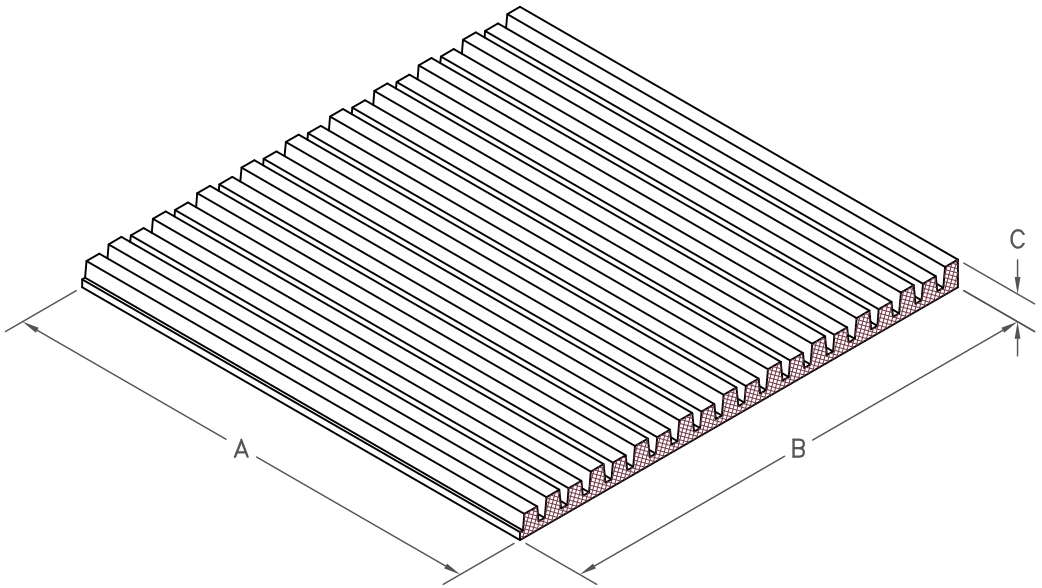
STANDARD RATINGS

TYPE	MAX. DEFL.	OP. HT.	CAPACITY RANGE
NPS-2-45	1.3	4.3	45 - 109
NPS-2-65	1.0	4.5	82 - 218
NPS-3-45	1.3	4.3	102 - 245
NPS-3-65	1.0	4.5	184 - 490
NPS-4-45	1.3	4.3	181 - 435
NPS-4-65	1.0	4.5	327 - 871
NPS-6-45	1.3	4.3	408 - 980
NPS-6-65	1.0	4.5	735 - 1960
NPS-9-45	1.3	4.3	919 - 2204
NPS-9-65	1.0	4.5	1653 - 4409
NPS-18-45	1.3	4.3	3674 - 8818
NPS-18-65	1.0	4.5	6613 - 17636



NOTES:

- NPS-45 IS 45 DUROMETER
- NPS-65 IS 65 DUROMETER

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Model: NPS PAD

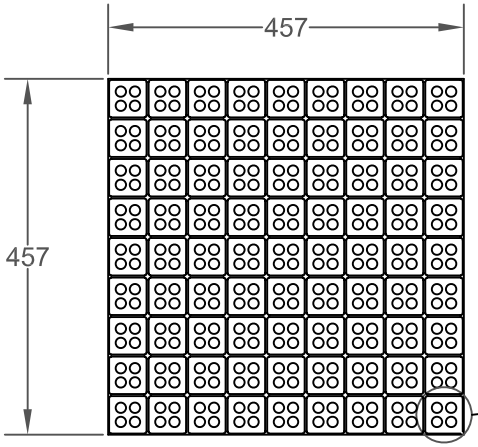
By: JMJ
Date: 05/16/03
Revised: 02/24/09 / BB

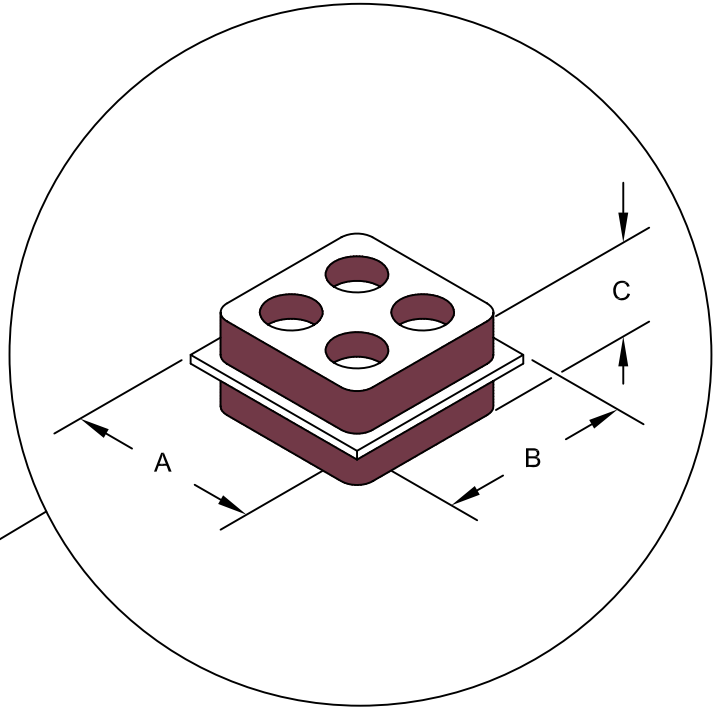
Drawing No: S-02.02-11 METRIC

RSP ISOLATION PAD

TYPE	A	B	C
RSP	51	51	19

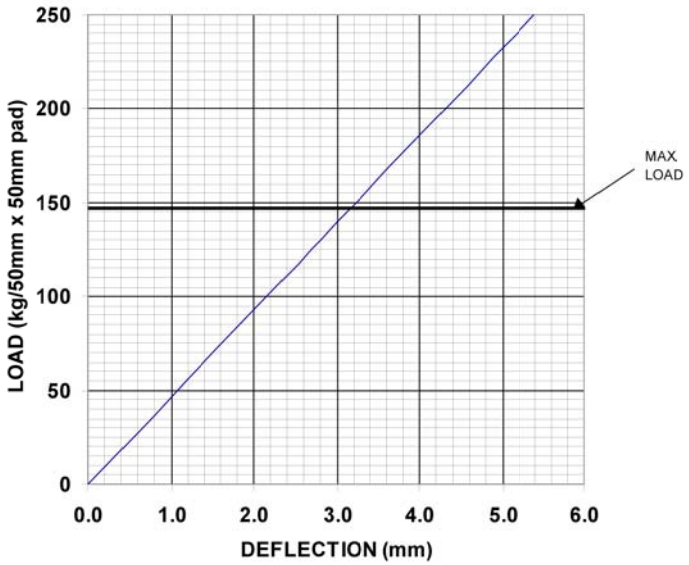
S-I UNITS (MM AND KG)





GRAPH OF LOAD VS. DEFLECTION

KINETICS MODEL RSP PAD (Metric)



SPECIFICATIONS:

- FULL SHEET IS 457 X 457 X 19
- CONTAINS (81) 51 X 51 PADS
- MAX LOAD RATING FOR EACH 51 X 51 PAD IS 148 KGS
- RAW MATERIAL 50 DURO NEOPRENE BLEND

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Ph: 614 889-0480, Fax: 614 889-0540
www.kineticsnoise.com

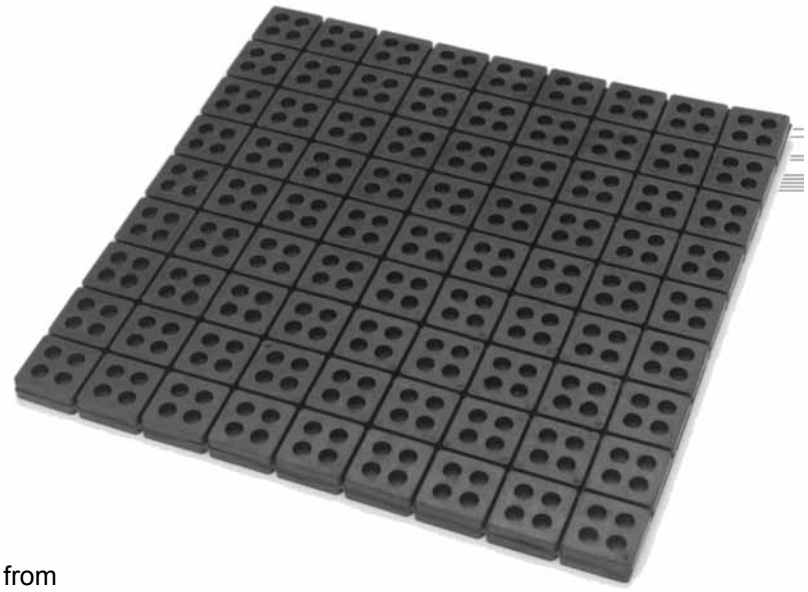
Model: RSP PAD

By: JMJ
Date: 05/19/03
Revised: /

Drawing No: S-02.04-11(M)

STORM ENGINEERING
VIBRATION ISOLATION · NOISE CONTROL · ENGINEERING

KINETICS™
Elastomeric Isolators
Model RSP



Application and Description

Kinetics RSP neoprene pads are produced from a high quality neoprene elastomer. Pads are 50 durometer and are designed for a maximum of 60 psi (4.2 kg. / sq. cm) loading. Pads are designed for a maximum deflection of approximately 20% of its unloaded thickness, 0.15" (0.38 cm). Several layers of RSP pads can be stacked for additional deflection when steel separation shim stock is used. The elastomer is oil and water resistant, offers a long life expectancy consistent with neoprene compounds, and has been designed to operate within the safe stress limits of the material. RSP pads are available in 18" x 18" x 3/4" (457 mm x 457 mm x 19 mm) thick sheets and are pre-scored into 2" x 2" (51 mm x 51 mm) squares.

Kinetics Model RSP elastomer in-shear isolation pads are suitable for the isolation of noise, shock, and high frequency vibration produced by mechanical, industrial, or process equipment located on grade, structural slab, or in other non-critical areas.

Applications for Model RSP pads should be limited to pad loadings not to exceed 60 lb. / sq. inch (4.2 kg. / sq. cm.) and are typically used with equipment or machinery having lowest operating speeds of 3600 rpm. Under shock or impact loading, the load capacity of the pads should be reduced by 50%.

Features

- Elastomer in-shear neoprene pads
- Oil, Water, and Corrosion resistant
- Available in 18" x 18" x 3/4" (457 mm x 457 mm x 19 mm) sheets, scored into 2" x 2" (51 mm x 51 mm) squares
- Load Capacities from 10 (0.7 kg. / sq. cm.) to 60 (4.2 kg. / sq. cm.) psi
- Static Deflections up to 0.15" (4 mm)

Specifications

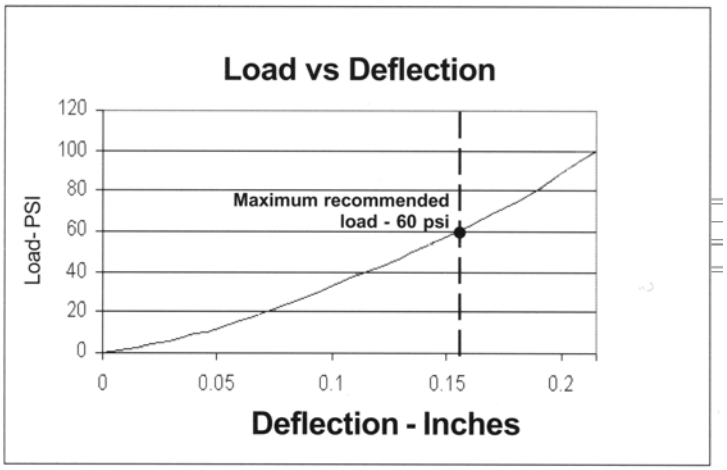
Isolation pads shall be neoprene elastomer in-shear pads, used in conjunction with steel shims where required, having static deflections as tabulated.

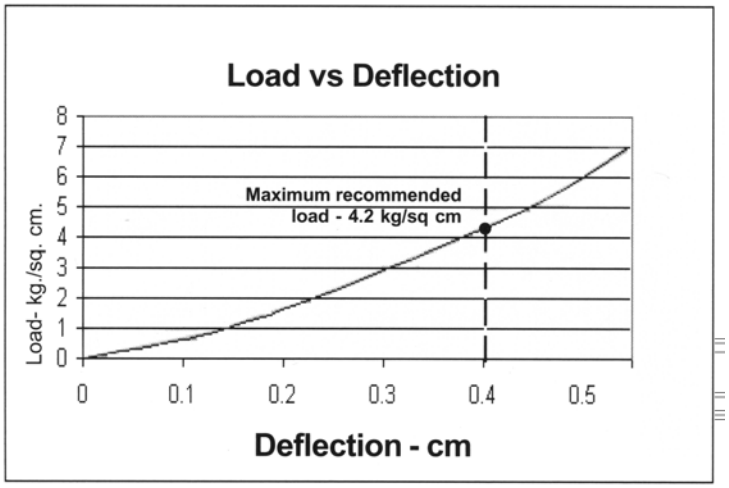
All pads shall be elastomer in-shear and shall be molded using 2500 psi minimum tensile strength, oil resistant neoprene compounds with no color additives.

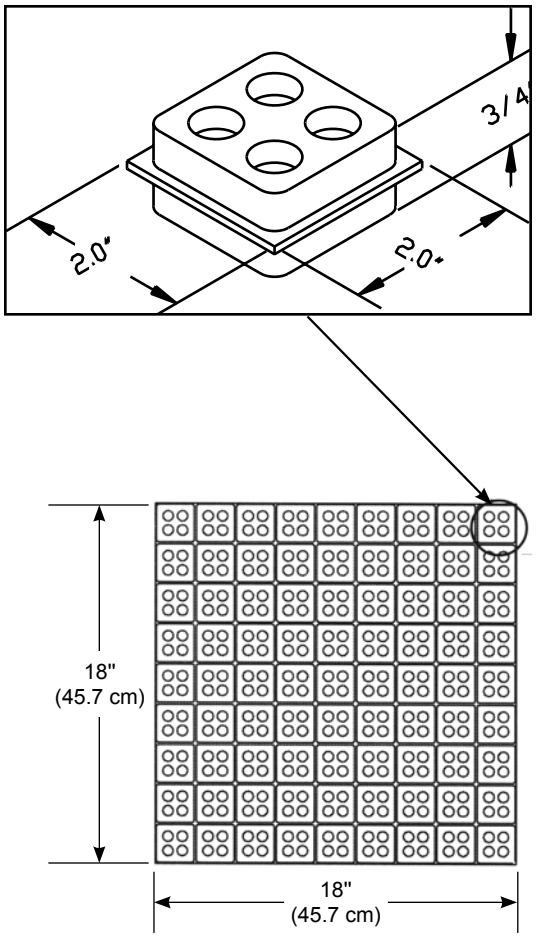
Pads shall be 50 durometer and designed to permit 60 psi (4.2 kg. / sq. cm.) loading at a maximum rated deflection of 0.15" (4 mm). Pads shall be available in 18" x 18" x 3/4" (457 mm x 457 mm x 19 mm) thick sheets, scored into 2" x 2" x 3/4" (51 mm x 51 mm x 19 mm) thick pads. When two isolation pads are laminated, they shall be separated by, and bonded to, a galvanized steel shim plate.

Neoprene vibration isolators shall have minimum operating static deflections as shown on the Vibration Isolation Schedule, or as indicated on the project documents, but not exceeding published load capabilities.

Neoprene vibration isolators shall be model RSP as manufactured by Kinetics Noise Control, Inc.







Full Sheet is 18" x 18" x 3/4"
Contains 81 - 2" x 2" Pads
Max. Load Rating for each 2" x 2" Pad is 240 lbs. (109 Kg)

KINETICS
Noise Control

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