



Vibro

Vibration Control Products

TABLE OF CONTENTS

Spring Antivibration Mounts (pages 4-7)



VIBRO - AM
SINGLE SPRING MOUNT



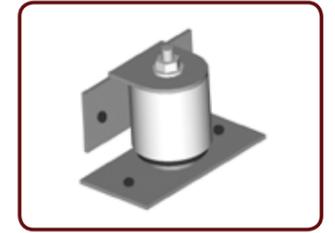
VIBRO - MS
MULTIPLE SPRING MOUNTS



VIBRO - SM
SPRING MOUNTS WITH
LATERAL RESTRAIN



VIBRO MSH
HEAVY WEIGHT MULTIPLE
SPRING MOUNTS



SEISMICON
SEISMIC RESTRAIN

Building Vibration Control Products (pages 8-10)



VIBRO FS
RUBBER SUPPORT FOR
WOODEN FLOORS



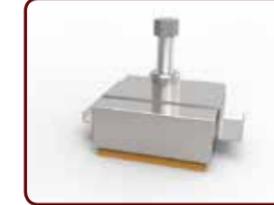
VIBRO FM
METAL/RUBBER SUPPORT
FOR WOODEN FLOORS



VIBRO WS
RUBBER SUPPORT FOR
GYPSUMBOARD PARTITIONS



VIBRO JS
ANTIVIBRATION SPRING-
MOUNTS FOR CONCRETE
FLOATING FLOORS



VIBRO JR
ANTIVIBRATION MOUNTS WITH
REGUFOAM FOR CONCRETE
FLOATING FLOORS



VIBRO SC
ANTIVIBRATION WALL
CONNECTION



VIBRO WB
ANTIVIBRATION WALL BRACES

Rubber Antivibration Mounts (pages 11-15)



VIBRO 3D
MULTIDIRECTIONAL CONTROL
WITH INTERNAL LAYERS OF
POLYURETHANE FOAM



VIBRO EM.2
RUBBER MOUNTS



VIBRO EM.3
RUBBER MOUNTS



VIBRO mini
RUBBER MOUNTS FOR
LIGHT WEIGHTS



VIBRO STRIP
STRIP RUBBER PROFILE



VIBRO EP
RUBBER PADS FOR WIDE
RANGE OF LOADS



VIBRO EP METAL
RUBBER PAD WITH
METAL COVER

Antivibration Hangers (pages 16-19)



VIBRO - CH - mini
MULTIFORMED HANGER WITH mini

RUBBER ANTIVIBRATION HANGERS



VIBRO - QH mini
QUICK INSTALLED HANGER
WITH mini



VIBRO - PI mini
ANTIVIBRATION CEILING
HANGER

POLYURETHANE ANTIVIBRATION HANGERS



VIBRO - CH.R
MULTIFORM HANGER WITH
POLYURETHANE FOAM



VIBRO - QH.R
QUICK INSTALLED HANGER
WITH POLYURETHANE FOAM

SPRING ANTIVIBRATION HANGERS

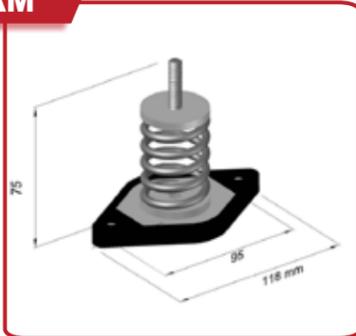


VIBRO - CH
SPRING AND RUBBER
HANGER



VIBRO - SH
SPRING HANGER

AM



ANTIVIBRATION SPRING MOUNTS

Anti vibration free standing spring mounts **Vibro-AM** are used for low frequency vibration control (slow speed rotation 400rpm upwards) such as compressors, two cycle engines, coolers, airhandling units etc).

At their base, the antivibration spring mounts **Vibro-AM** have a galvanized metal plate with adequate thickness covered by a special rubber pad, resistant to outdoor conditions. The advanced design of the rubber profile offers better isolation efficiency at high frequencies, that can be transmitted through its metal structure. The oval base has two holes for fixing with M8 pass-through bolts*. At the upper part there is a M8 bolt for fixing at the machinery. The spring complies with the ISO EN 10270 requirements.

**bolts not included*

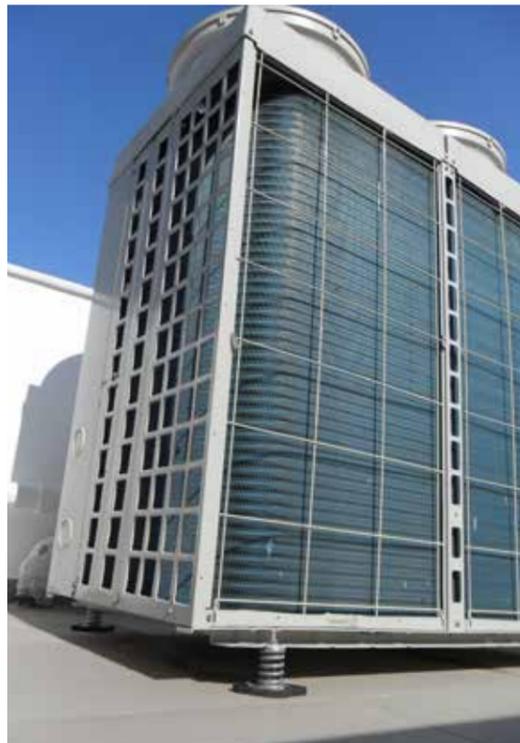
Vibro-AM Selection Table

TYPE	MAXIMUM LOAD (kp)
Vibro-AM 25	25
Vibro-AM 50	50
Vibro-AM 100	100
Vibro-AM 150	150

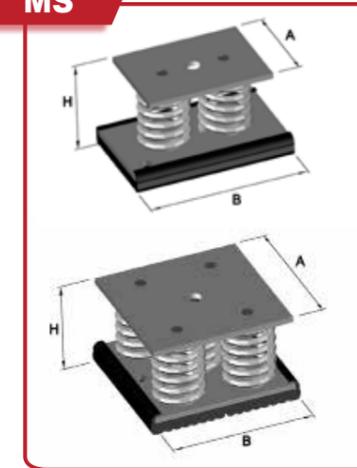
Other load range on request

Dynamic Characteristics

Deflection **25 mm** at maximum load
 Natural Frequency: **3 Hz** at maximum load
Available also with 50mm deflection



MS



MULTIPLY ANTIVIBRATION SPRING MOUNTS

Vibro-MS is an antivibration mount with multiple free standing springs. It is specially designed to have low height (type L) and is very effective in low frequency vibrations absorption. The rubber profile at its base acts as a sound break and increases the isolation efficiency in high frequencies, that could be transmitted through the springs. The springs are fixed with an innovative fastening system. **Vibro-MS** can be upgraded to **Vibro-MS complex** with the addition of an antivibration pad **Vibro-EP** or the antivibration polyurethane sheet of material *Regufoam®* underneath its metal base. The combination of spring and rubber expands the natural frequency range for better antivibration results.

Dynamic Characteristics

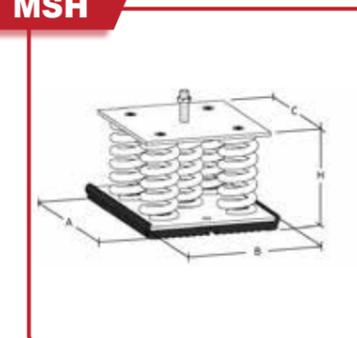
Deflection **25 mm** at maximum load
 Natural Frequency: **3 Hz** at maximum load
Available also with 50mm deflection

Vibro - MS Selection Table

TYPE	No of SPRINGS	DIMENSIONS (A-B-H)	MAXIMUM LOAD (kp)
Vibro MS 200	2	80 - 110 - 80mm	200
Vibro MS 300	3	80 - 140 - 80mm	300
Vibro MS 400	4	125 - 160 - 80mm	400
Vibro MS 500	5	125 - 160 - 80mm	500
Vibro MS 600	4	125 - 160 - 80mm	600
Vibro MS 750	5	125 - 160 - 80mm	750
Vibro MS 1000	10	125 - 200 - 80mm	1000
Vibro MS 1500	10	125 - 200 - 80mm	1500

Other load range available upon request

MSH



HEAVY DUTY MULTI-SPRING ANTIVIBRATION MOUNT

Vibro-MSH is an antivibration mount with multiple springs for very heavy equipment. It is specially designed to absorb low frequency vibrations (i.e. reciprocating machines). Additionally, the specially designed profile of the rubber at its base, acts as a sound break and increases the isolation efficiency in high frequencies that could be transmitted through the springs. The springs are fixed with an innovative fastening system to the metal base.

Dynamic Characteristics

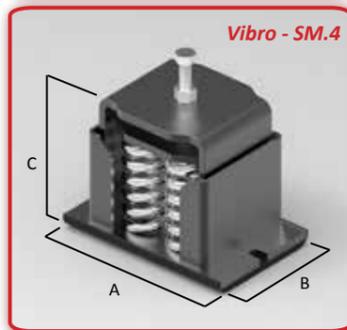
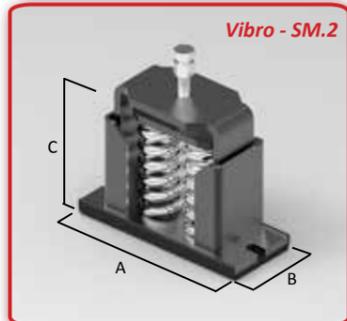
Deflection **25 mm** at maximum load
 Natural Frequency: **3 Hz** at maximum load

Vibro - MSH Selection Table

TYPE	No of SPRINGS	DIMENSIONS (A-B-C-H)	MAXIMUM LOAD (kp)
Vibro MSH 1000	4	200-210-200-150mm	1000
Vibro MSH 1250	5	200-210-200-150mm	1250
Vibro MSH 2000	4	200-210-200-150mm	2000
Vibro MSH 2500	5	200-210-200-150mm	2500
Vibro MSH 3000	4	200-210-200-150mm	3000
Vibro MSH 3750	5	200-210-200-150mm	3750

Other load range available upon request

SM



ANTIVIBRATION MOUNTS WITH LATERAL RESTRAIN

Vibro-SM is the optimum solution for low-frequency vibration control with adjustable height and machine alignment combined with protection from lateral displacement. The casing is made of steel and is protected from oxidation with a polyester powder coating. An adjustable height system is placed, in order to align the machine in the horizontal position. At their base they have a special rubber profile, resistant to outdoor conditions, thus offering better vibration isolation efficiency also at high frequencies. Antivibration mounts' **Vibro-SM** with their advanced design can also successfully sustain lateral forces (like earthquakes and wind-pressure excitation). An elastic gasket is placed between the two vertical reinforcements, to avoid creating a sound-bridge. Also, through the friction that is developed, the phenomenon of resonance is decreased, when the machines starts or stops to operate.

Vibro-SM Selection Table

TYPE	No of-SPRINGS	DIMENSIONS (AxBxCmm)	MAXIMUM LOAD (Kp*)
Vibro-SM 250	1	80-180-157	250
Vibro-SM 500	1	80-180-157	500
Vibro-SM 750	1	80-180-157	750
Vibro-SM 500	2	100-250-175	500
Vibro-SM 1000	2	100-250-175	1000
Vibro-SM 1500	2	100-250-175	1500
Vibro-SM 2000	4	160-250-175	2000
Vibro-SM 3000	4	160-260-175	3000

Other load range available on request

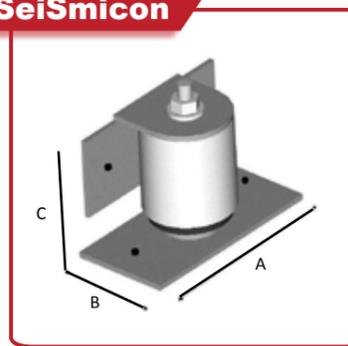
*1 kp = 10 N

Dynamic Characteristics

Maximum Load **8 - 20 Kp**
 Deflection **25 mm** at maximum load
 Natural Frequency: **3 Hz** at maximum load
 Available also with 50mm deflection



SeiSmicon



SEISMIC RESTRAINT

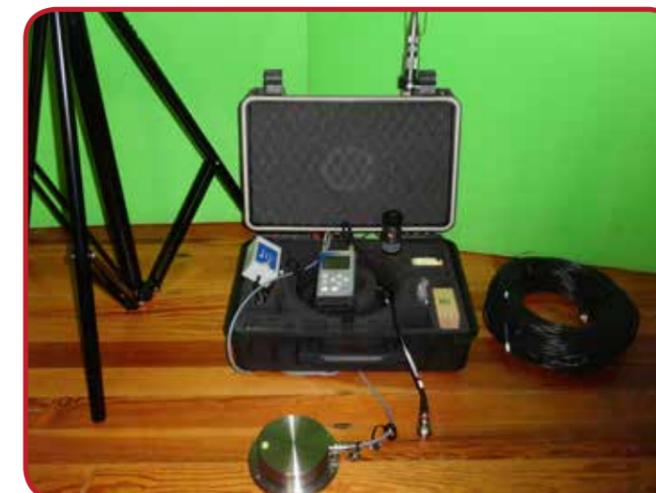
Machines based on antivibration mounts such as springs, elastic pads etc., during external excitation (e.g. earthquake, wind, tornado etc.) can develop critical displacements. These displacements may stop the operation or even cause serious damage to the machine. Seismic restraints could resist the imposed forces and limit the movement of equipment to all three directions. The restraints also prevent the creation of sound bridge between the machine and its support base, due to their internal neoprene bushings. Thus the vibrations during normal operation are not transmitted.

SEISMICON Selection Table

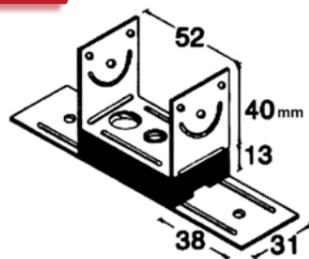
TYPE	DIMENSIONS (AxBxC)	MAXIMUM LOAD (kp)
C-1	150-65-170	750
C-2	180-70-200	1000



VIBRATION MEASUREMENTS



High Technology Vibration measuring equipment with tri-axial high sensitivity accelerometers, for building and machinery vibration measurements.

FM

WOODEN FLOOR SOUND INSULATION

Vibro-FM, has been developed to reduce the impact noise of wooden nailed floors. Impact noise refers to sound produced when a short duration impulse, acts directly on a structure.

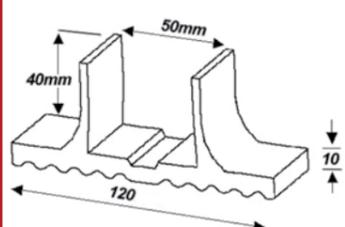
Vibro-FM pads, are useful for the reduction of noise coming from upstairs to down stairs. Weighted Normalised impact sound pressure level $L_n'w = 53$ dB was measured at the acoustic laboratory of National Technical University of Athens in accordance with international standards ISO 140- 6 and ISO 717- 2.

QUANTITY

6 - 8 items per m²

MAXIMUM LOAD

80 Kp per mounting point


FS

ANTIVIBRATION SUPPORT FOR WOODEN FLOORS

Vibro-FS, is a specially designed homogeneous elastomeric support system that has been developed to reduce the impact noise of wooden floors.

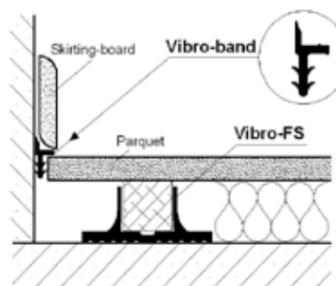
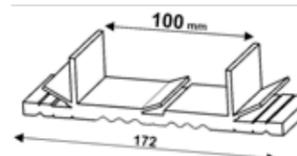
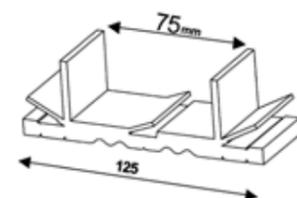
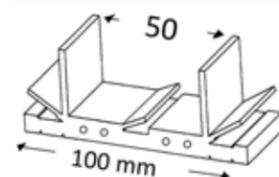
Impact noise refers to sound produced when a short duration impulse, acts directly on a structure. **Vibro-FS** pads, are useful for the impact noise reduction (for example footsteps) of upcoming noise from upstairs to the levels below.

QUANTITY

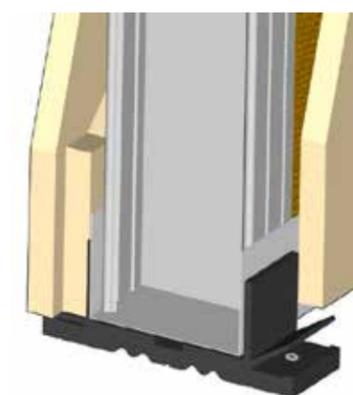
6 - 8 items per m²

MAXIMUM LOAD

80 Kp per mounting point


WS

ANTIVIBRATION SUPPORTS For GYPSUMBOARD PARTITIONS

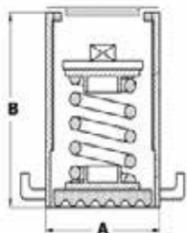
Vibro-WS are specially designed homogeneous elastomeric support systems for gypsumboard partitions. The semi-cylindrical modulation at their base (for **WS.75** & **WS.100**) and the transversal holes (for **WS.50**), provide the necessary space for the rubber expansion, increase the deflection and consequently the vibration insulation. The inclined flaps of **Vibro-WS** cover the fixing bolts on the base and prevent possible sound bridge with the gypsumboard.



Vibro-WS are installed on floor and ceiling metal profiles (U-runer with width, 50, 75 or 100mm) in correspondence to the C-studs. They can be fixed on the profiles with bolts and on the floor or ceiling with expansion bolts. The free spaces underneath must be filled with sound absorption material (e.g. rockwool) and sealed with elastic mastic. Part or all of base's lateral flaps, can be cut easily due to its incisions, for applications with smaller thickness (e.g. single gypsumboard) than the flap's length.

Metal washer must be used in every fixed point.

JS



ANTIVIBRATION SPRING MOUNTS For concrete floating floors

Antivibration spring mount **Vibro-JS** is an advanced vibration control system for raised concrete floating floors. **Vibro-JS** consists of a metal shell. Inside a spring is placed, to absorb the vibrations. The poured concrete does not touch the supporting floor and so the sound bridge is avoided. Its very easy to install, allows regulation of height, and helps to avoid the use of remaining plywood forms. It also creates an air gap, which is beneficial for the sound insulation and the vibration control.

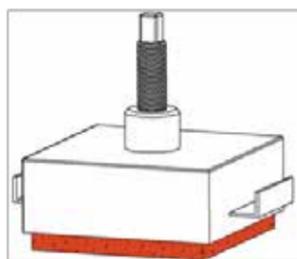


Vibro JS Selection Table

TYPE	DIMENSIONS AxBmm	MAXIMUM LOAD (kp)
JS-300	Φ85 - 100	300
JS-500	Φ95 - 150	500

Other load range available on request

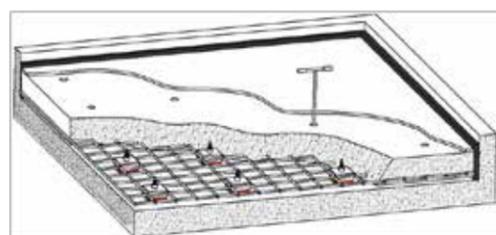
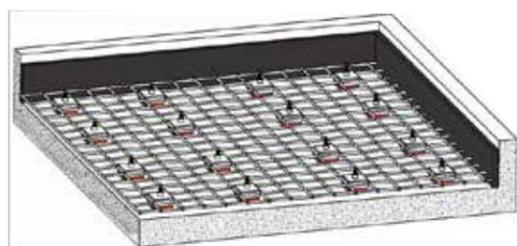
ANTIVIBRATION RUBBER MOUNT with Regufoam For concrete floating floors



Vibro-JR is an advanced vibration control system for raised concrete floating floors. It consists of a metal shell that contains the antivibration polyurethane elastomer **Regufoam** sheet is placed, to absorb the vibrations. The poured concrete does not touch the supporting floor and so the sound bridge is avoided. It's very easy to install, allows regulation of height, and helps to avoid the use of remaining plywood forms. It also creates an air gap, which is beneficial for the sound insulation and the vibration control.

Vibro-JR Selection Table

TYPE	MAXIMUM LOAD (kp)
Vibro-JR.100	100
Vibro-JR.200	200
Vibro-JR.400	400

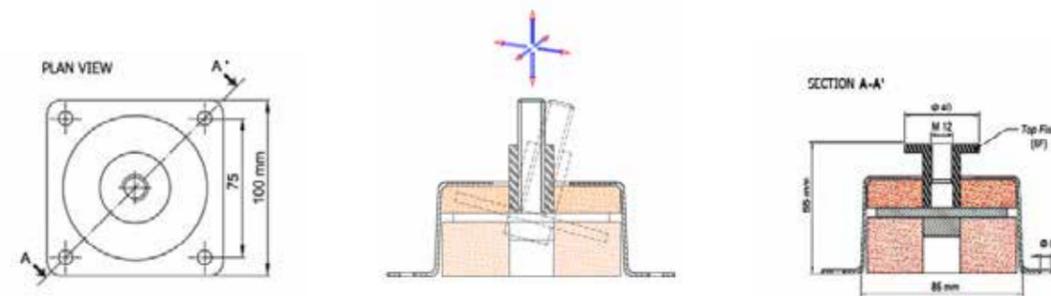


3D



MULTIDIRECTIONAL ANTIVIBRATION MOUNT

The new antivibration mount **Vibro-3D** is one of the few antivibration mounts that can offer vibration control in every direction (x,y,z). **Vibro-3D** is designed to sustain impulsive loads in all the three axis, so its capable to receive high vertical or lateral shocks with minimum danger of destruction. The main internal elastic material is polyurethane foam with semi closed cells, which is produced in Germany with the trademark Regufoam®. Full range of its mechanical behavior diagrams, conducted in the University of Dresden, are available on request.



Vibro-3D Selection Table

COLOR CODE	APPLICATION	MAX STATIC LOAD (kp)	MAX DYNAMIC LOAD (kp)
BRICK RED	MOUNTING (B)	35	50
	SUSPENSION (H)	29	43
ORANGE	MOUNTING (B)	70	100
	SUSPENSION (H)	58	85
BROWN	MOUNTING (B)	140	210
	SUSPENSION (H)	150	170
BLACK	MOUNTING (B)	280	380
	SUSPENSION	200	280

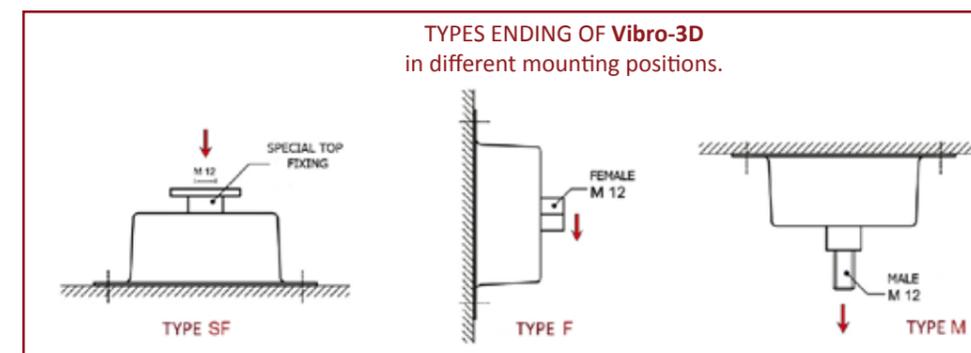
ENDING TYPE

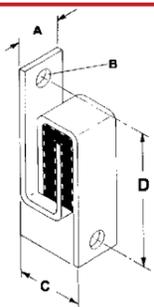
- MALE (M)
- FEMALE (F)
- SPECIAL FEMALE FIXING (SF)

APPLICATIONS

- MOUNTING (B)
- SUSPENSION (H)

Indicative order form: **Vibro-3D Brown / B-SF**



SC

ANTIVIBRATION WALL CONNECTION

Antivibration wall connection **Vibro-SC** is used in order to add structural integrity of long and tall walls, which are mounted on antivibration pads or based on floating floor. It prevents any direct connection between the double walls, and increases their stiffness. It prevents wall backling during earthquakes. It is usefull when a secondary wall is applied for improved sound insulation where rigid connections will cause unwanted sound bridge.

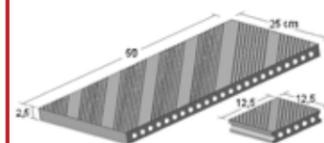
TYPE	DIMENSIONS A x B x C x D	MAX AXIAL RESTRAINT
Vibro SC.1	25 - 78 - 40 mm	30 kg
Vibro-SC.2	25 - 78 - 40 mm	60 kg

WB

ANTIVIBRATION WALL BRACES

The Antivibration wall braces **Vibro-WB** are used in order to add structural integrity of long and tall walls, which are mounted on antivibration pads or based on floating floor. They avoid any direct connection between the double walls, and increase their stiffness. They prevent wall backling during earthquakes. It is usefull when a secondary wall is applied for improved sound insulation where rigid connections will cause unwanted sound bridge.

TYPE	MAX AXIAL RESTRAINT
Vibro WB.25 Black	25 kg
Vibro-WB.50 White	50 kg

EP

ANTIVIBRATION ELASTIC PAD

Vibro-EP can be used for vibration absorption in the following applications:

- Antivibration mounts of aircompressors, pumps, fans, generator sets, cutting machines, etc.
- Floating supports: industrial floors, elevators, printing machines, testing machines

Dimensions: • 50 x 25 x 2.5 cm
• 12.5 x 12.5 x 2.5 cm

Vibro-EP is the result of specialized research and is produced in this form since 1989, made from first-rate elastomeric material mixed with special substances for its further improvement.

Its longitudinal holes increase the provided compression/deflection and improve vibration absorption. They can be used in multiple layers with the use of steel plate in between, in order to reduce the natural frequency down to **4 Hz**.

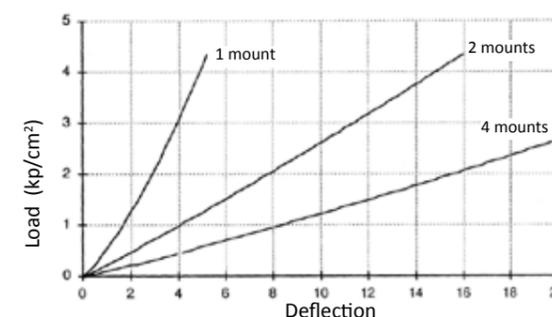
Vibro-EP Selection Table

TYPE	DIMENSIONS (cm)	MAXIMUM LOAD (kp)	LOAD (kp ² /cm ²)
GREY or BEIGE	50 x 25	3800	2 - 3
	12,5 x 12,5	400	1.8 - 2.5
BLUE or GREEN	50 x 25	2500	1.5 - 2
	12.5 x 12.5	280	1 - 1.8
RED or YELLOW	50 x 25	1800	1 - 1.5
	12.5 x 12.5	180	1 - 1.5

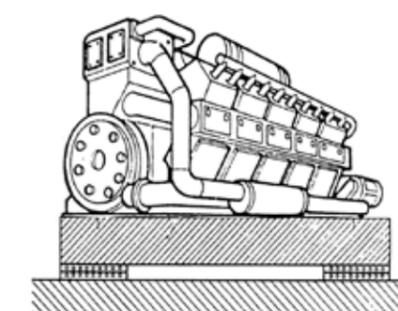
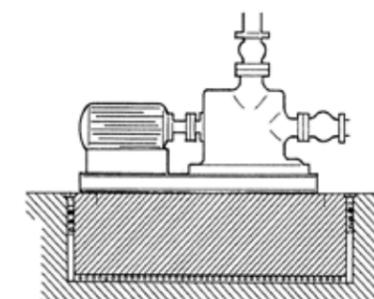
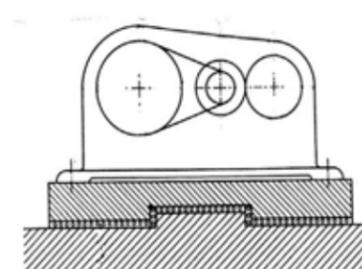
TYPES

Special rubber compound: (grey - blue - red)

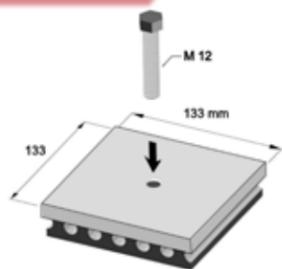
Neoprene: (beige - green - yellow)



for vibro EP 12,5 x 12,5 x 2,5 cm blue



EP - METAL



ANTIVIBRATION PAD WITH METAL COVER

Vibro-EP Metal consists of a rubber pad **Vibro EP** (dimensions 12.5x12.5 cm) and a specially formed galvanised metal cover. The steel cover protects the rubber part of the mount from UV radiation and oil. At the same time the load applied on the mount is equally distributed to the entire surface of the rubber element. At the centre of the upper side of the cover an internal M12 thread is incorporated, which allows the corresponding fixing screw (not included) to attach the machine with the Anti vibration mount. The beige green and yellow elastic pads are made of Neoprene type of rubber which is even more resistant to heat and UV radiation.

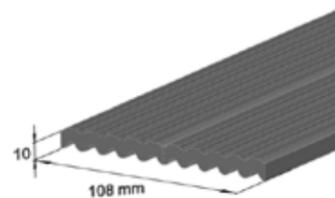
DIMENSIONS: 13 x 13 x 2.8 cm

Vibro-EP Metal	MAX LOAD RANGE (kp)
GREY OR BEIGE	350
BLUE OR GREEN	250
RED OR YELLOW	150

Dynamic Characteristics

Deflection **2.5 mm** at maximum load
 Natural Frequency: **10 Hz** at maximum load

STRIP

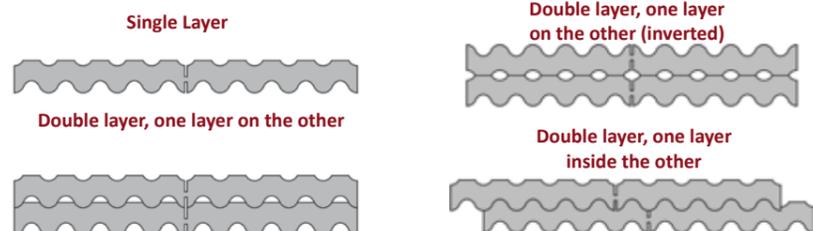


ANTIVIBRATION RUBBER STRIP

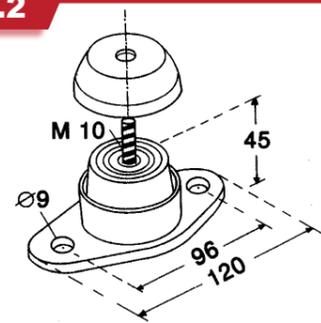
Vibro-Strip is primarily installed at the base of the machinery to achieve vibration control. It can also be used as an elastic pad between the structural parts (columns, walls, bridges, tanks, e.t.c.) for smoothing out structural forces. It can be easily cut in any dimension (e.g. washers) according to the weight of the supported machine. It can also be easily cut in the middle due to its special form. It has various ways of installation according to the amount of vibration reduction required. For example it can be used in single or double layer to increase the thickness hence the deflection. There are several other applications combinations, which can be customly used.

Dimensions : Thickness 10 mm, Width 108 mm. Available on 3m rolls length

WAYS OF INSTALLATION



EM.2



ANTIVIBRATION METAL - RUBBER MOUNTS (Type 2)

Vibro-EM.2 is a result of specialized research and it is made by a rubber to metal bonded parts. The metal cap provides protection from various aggressive fluids, like oil and water. In addition it protects the main body of the antivibration mount from sunbeams increasing its life time. The metal cover is from galvanized metal sheet which prevents oxidation. The rest of the metal parts are covered by rubber and are better protected from oxidation. The top and bottom surface has special lining that increase friction and reduce the surface slipping.

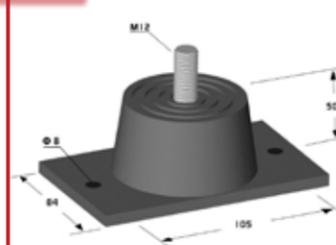
Vibro-EM.2 Selection Table

TYPE (Color Code)	MAXIMUM LOAD (kp)
EM.2 RED	40
EM.2 BLUE	80
EM.2 WHITE	150

Dynamic Characteristics

Deflection **3 mm** at maximum load
 Natural Frequency: **10 Hz** at maximum load

EM.3



ANTIVIBRATION ELASTIC MOUNTS (Type 3)

Vibro EM.3 is a result of a specialised research and it is made by a rubber to metal bounded parts. The antivibration rubber mount **Vibro EM.3** can be used to absorb vibration produced by air handling units, air conditioning units, pumps, air compressors, ventilators, transformers, motor generators, cutting machines, printing machines, lifts, etc. especially where machine fastening is necessary. The top and bottom surface has special lining that increase friction and reduce the surface slipping.

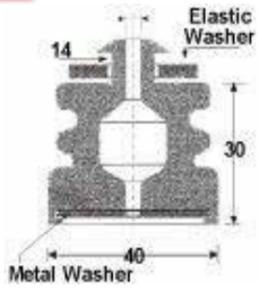
Vibro-EM.3 Selection Table

TYPE (Color Code)	MAXIMUM LOAD (kp)
EM.3 BLUE	250
EM.3 WHITE	400

Dynamic Characteristics

Deflection **3 mm** at maximum load
 Natural Frequency: **10 Hz** at maximum load

mini

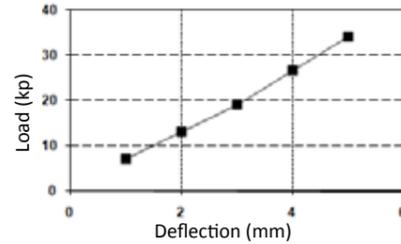


ANTIVIBRATION SUPPORTS

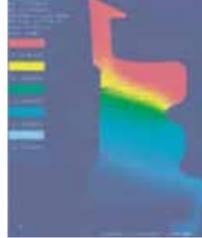
The antivibration support **Vibro-mini** is a low cost solution for the vibration problem that the low weight machines create. It is a great solution for the antivibration support of low axial loads. Due to its pionner design, **Vibro-mini** provides a greater deflection. It can be screwed with an anchor into the floor, or it can be suspended on the ceiling through anchors or even be placed on a metal base with a passing through screw of M8 mm. The passing through screw prevents the machinery from falling in the event of elastic part destruction. (Fail Safe)

Dynamic Characteristics

Maximum Load **20 Kp**
Natural Frequency: **15 Hz**

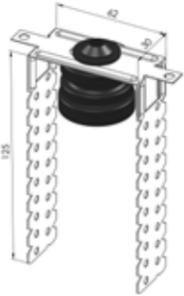


mini2



Distribution of internal stress

PImini



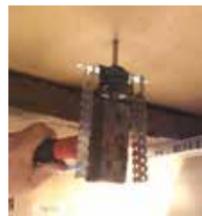
ANTIVIBRATION CEILING HANGERS

VIBRO-PI mini is used to suspend sound insulating (gypsum board) ceilings, suspend air-ducts e.t.c. The design of the metal profile with its edges can be easily cut or bended in different levels to achieve uneven levels of the floating ceiling when required.

Vibro-PI mini consists of a metal frame of galvanized sheet properly formed. A special antivibration rubber support (**Vibro-mini**) is placed on the upper part. Through the rubber support an M6 screw is used which can be anchored to the ceiling. The rubber antivibration support Vibro-mini is the result of specialised research made of high quality rubber compound with very good deflection versus load ratio for excellent vibration control. The special design of the metal profile is perforated. Due to that, it can be cut easily on different in order to cover the project needs.

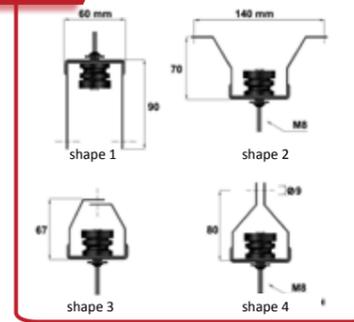
Dynamic Characteristics

Maximum Load **20 Kp**
Natural Frequency: **15 Hz**



Installation pictures for Vibro PI mini

CHmini



MULTIFORM ANTIVIBRATION HANGER

Vibro-CH mini consists of a galvanized steel metal frame with notches in appropriate places and the antivibration rubber mount **VIBRO-mini**. The suspension is easily transformed to any of the 4 forms shown in the figures ,with the force of just one hand.

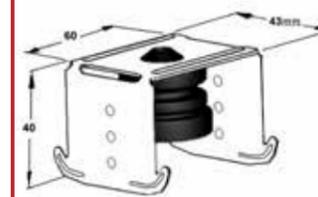
- SHAPE (1) is screwed on both sides of the metal suspension's profile
- SHAPE (2) is fixed with 2 anchors on the ceiling.
- SHAPE (3) is fixed with 1 anchors on the ceiling.
- SHAPE (4) is hanged with a hook.

Dynamic Characteristics

Maximum Load **8 - 20 Kp**
Natural Frequency: **15 Hz**



QHmini



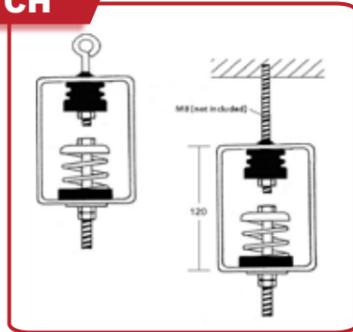
ANTIVIBRATION HANGERS FOR GYPSUMBOARD CEILINGS

Vibro-mini can be combined with a suitable reinforced and modulated galvanized metal suspension hanger, offering vibration isolation on sound insulation gypsumboard ceilings. The hole of the rubber of the **Vibro-mini**, is $\Phi 8$ mm for the pass-through bolt. A long threaded rod could be used in order to adjust the height of the false ceiling.

The suspension hanger has grabbling nebs for quick and easy connection with the standard ceiling profiles 60 x 27mm, according to DIN 18182-1. These nebs help the adaptation with standard metal profile of the false ceilings so that they can easily handled. Therefore, the working cost is decreased and it also facilitates the work of the installer.

Dynamic Characteristics

Maximum Load **8 - 20 Kp**
Natural Frequency: **15 Hz**

CH


ANTIVIBRATION HANGERS with RUBBER + SPRING

Vibro-CH is a combination of special rubber with metal spring for better vibration isolation of low and high frequency heard by the human ear.

It consists of:

- Steel frame with painted finish or galvanized metal.
- Steel spring in according to ISO EN 10270 with galvanized finish.
- Steel cup to prevent spring movement.
- Rubber element on the top for better isolation of audible frequency
- Hanging Ring with safety nut
- Preloading capability by turning the bottom nut
- Rubber spring cup with a projecting bushing to prevent sound bridge
- Different types of hanging (screw, eyes bold)

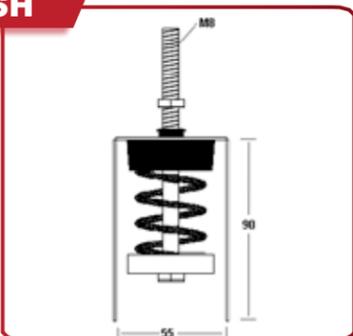
Dynamic Characteristics

Deflection **25 mm** at maximum load

Natural Frequency: **3 Hz** at maximum load

Vibro-CH Selection Table

TYPE	MAXIMUM LOAD (kp)
Vibro-CH 25	25
Vibro-CH 50	50
Vibro-CH 100	100
Vibro-CH 150	150


SH


SPRING ANTIVIBRATION HANGERS FOR FALSE CEILINGS

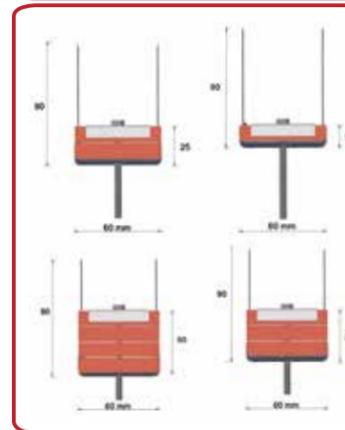
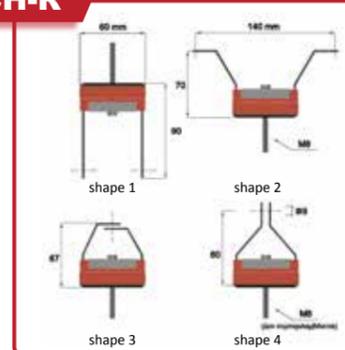
Antivibration hangers for false ceilings **Vibro-SH** consist of metal frame made of galvanized sheet, properly formed with lateral strength, steel spring, antivibration rubber element at the bottom of the spring which acts as a sound break and increase isolation efficiency. They can also be pre-loaded by tightening the nut.

Dynamic Characteristics

Maximum Load **25 Kp**

Deflection **25 mm** at maximum load

Natural Frequency: **3Hz** at maximum load


CH-R


ANTIVIBRATION HANGERS WITH REGUFOAM

The frame of **Vibro-CH-R** is made from galvanized metal sheet.

The elastic element of the hanger is a high quality polyurethane foam, with semi-closed cells, manufactured by the German company BSW under the trademark **Regufoam®**. Full range of its mechanical characteristics diagrams and certificates, conducted in the University of Dresden, are available upon request.

The precisely designed incisions of the metal sheet provide easy bending of its frame, at certain shapes, that can be achieved by the strength of a single hand. Thus **Vibro CH-R** can be easily transformed, very easy, into 4 different shapes in order to help the installer use it at the most favorable form.

- SHAPE (1) - Screwed on both sides of the metal suspension's profile
- SHAPE (2) - is fixed with 2 anchors on the ceiling
- SHAPE (3) - is fixed with 1 anchor on the ceiling
- SHAPE (4) - Hanged up with a hook or other proper device.

Vibro-CH-R is available in 4 different thicknesses (12-25-37-50mm) in order to achieve the desired natural frequency

Vibro-CH.R Selection Table

TYPE	MAXIMUM LOAD (kp)
Vibro-CH.R 20.(12-25-37-50)	20
Vibro-CH.R 50.(12-25-37-50)	50


QH-R


ANTIVIBRATION HANGER FOR GYPSUMBOARDS CEILINGS

Vibro QH-R consist of a specially design galvanized metal suspension hanger, which has grabbling nebs for QUICK AND EASY connection with the standard ceiling profiles with dimensions 60x27 mm (for false ceilings) according to DIN 18182-1.

Therefore, the labour cost decreases and it also facilitates the work of the installer.

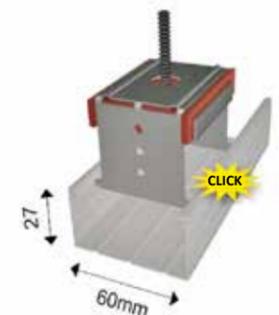
The elastic element of the **Vibro QH-R** hanger is high quality polyurethane foam, with semi-closed cells. It is available in 2 different thicknesses of its elastic pad:

12mm (economic solution)

25mm (better vibration control)

Vibro-QHR Selection Table

TYPE	MAXIMUM LOAD (kp)
Vibro-QH.R 25.12	20
Vibro-QH.R 25.25	20



VIBRO is a series of antivibration systems designed and manufactured
by **ALPHA ACOUSTIKI LTD**

Advanced scientific measuring equipment is being used for detailed vibration analysis. This contributes in the development of new products and resolution of complex vibration control problems.

Our highly specialised team of engineers with experience in the field since 1978, can deal with any vibration and noise control problem.

If an application calls for a more demanding solution, our R&D department can suggest custom engineering solutions, which can consequently be manufactured by our production line.

All Vibration Control products are manufactured under **Quality Assurance System** which complies with **ISO 9001.2008**.

more information on

www.antivibration-systems.com



ALPHA ACOUSTIKI LTD

73, Apostolopoulou Str, Athens Greece 15231

T: +30 210 6779875 - F: +30 210 6779269

www.antivibration-systems.com

info@vibro.gr