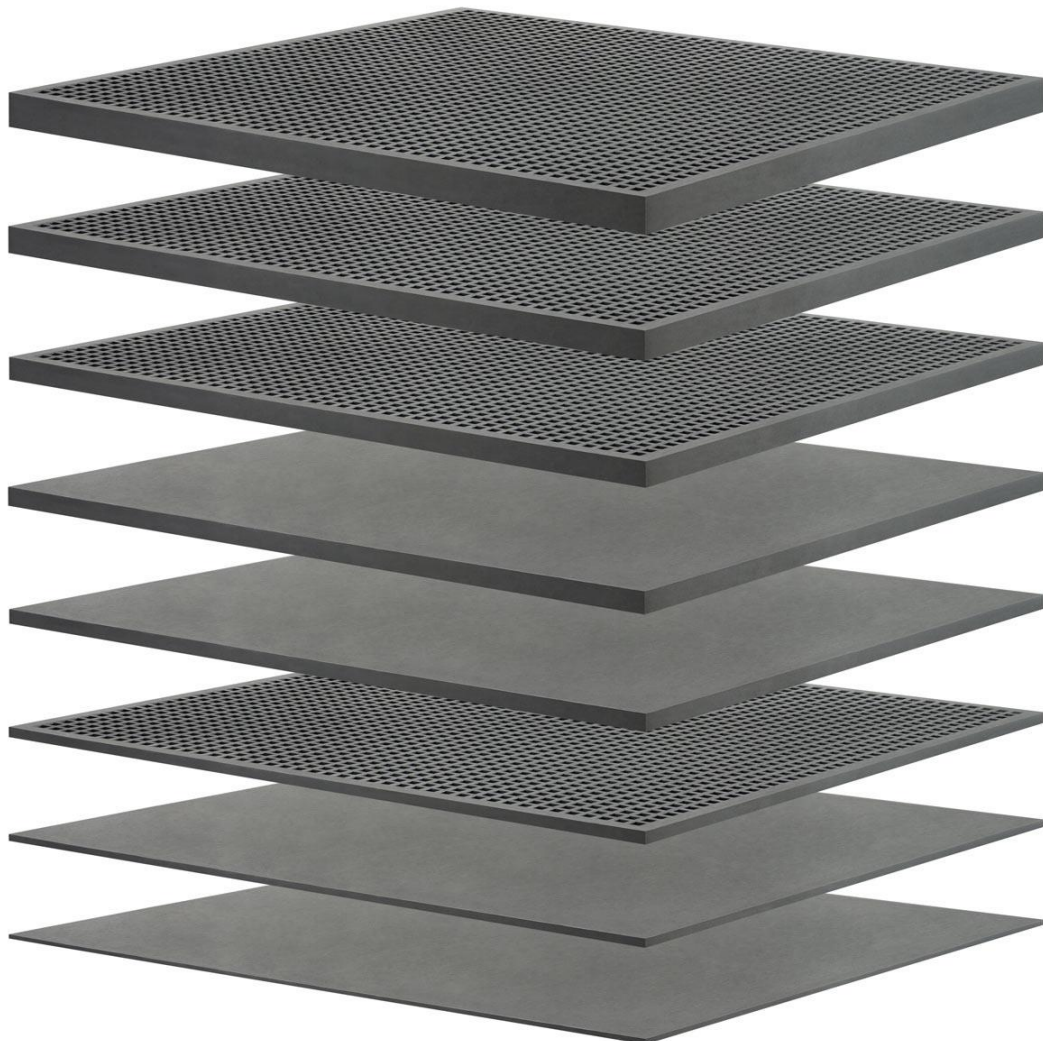


absorbtion and
non-slip boards



absorbtion and non-slip boards

A graded selection of elastomer boards varying in thickness, rigidity / hardness and dynamic intrinsic frequency allows for case-individual set-up of machines, devices and industrial installations. Vibration damping is achieved in applying hard material with high rigidity / hardness, vibration isolation in applying soft material with low rigidity / hardness.

The materials mainly used are nitrile butadiene rubber (NBR) - resistant towards mineral oils, benzine, mild acids and lyes, salts, soap solutions and water - or alternatively polyurethane - resistant towards mineral oils, benzine and high water content hydraulic fluids (HFA). In outdoor applications the materials sport good weathering properties.

The materials can easily be cut to size, drilled and bonded with steel and polyamide using adhesive.

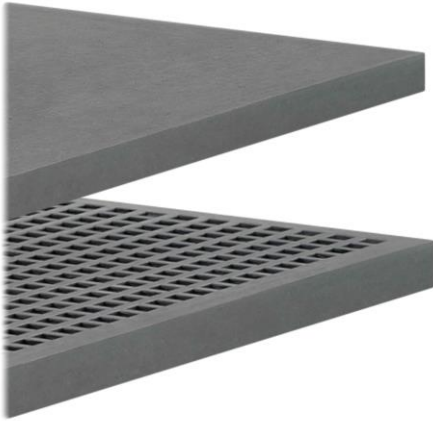
elastomeres	mounting	NBR-type	hardness	thickness	effect / result	
			Shore A +/-5	mm		
elastomeres	hard	NBR9002/OO	ca. 90°	2	non-slip protection	
		NBR9005/OO		5		
		NBR9007/PP		7		
	hard	NBR9014/OO	ca. 90°	14	vibration damping	vibration isolation
		NBR8516/PP		16		
		NBR8525/PP		25		
	medium	NBR7516/PP	ca. 75°	16		
		NBR7525/PP		25		
	soft	NBR5514/OO	ca. 55°	14		
		NBR5518/PP		18		

A soft mounting effects absorbtion of the vibration energy in the material itself and only little transmission.

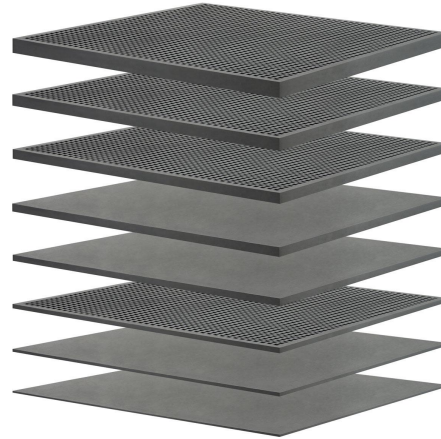
For high damping, level consistency and extreme static load, elastomer boards with high hardness or low thickness are recommended.

For a high grade of isolation, the intrinsic frequency must be tuned sufficiently low. Hitherto, kindly provide machine mass, number of support points and the type of dynamic load.

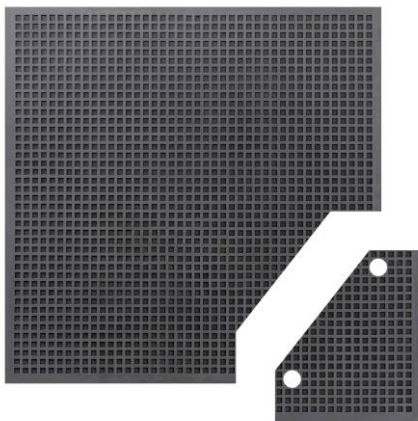
product highlights



with / without structure
(depending on application and thickness)



various thicknesses and hardnesses
(Shore A)



full boards & cuts to measure via drawing -
complex geometries / holes possible



sandwich solutions
without / with intermediate steel plates

options & modifications

- sandwich solutions with two or more layers
- bonding with steel plates as carrier- or intermittent layer
- complex geometries via waterjet cutting

overview damping and non-slip boards

description	design	article number	dimensions*	thickness	hardness	catalogue page
			mm	mm	Shore A (+/-5)	
NBR9002/OO	both sides smooth	15010 00001	525 x 525	2	ca. 90°	5
NBR9005/OO	both sides smooth	15010 00002	525 x 525	5	ca. 90°	6
NBR9007/PP	both sides structured	15010 00004	525 x 525	7	ca. 90°	7
NBR9014/OO	both sides smooth	15010 00013	525 x 525	14	ca. 90°	8
NBR8516/PP	both sides structured	15010 00016	525 x 525	16	ca. 90°	9
NBR8525/PP	both sides structured	15010 00020	525 x 525	25	ca. 90°	10
NBR7516/PP	both sides structured	15010 00015	525 x 525	16	ca. 75°	11
NBR7525/PP	both sides structured	15010 00019	525 x 525	25	ca. 75°	12
NBR5514/OO	both sides smooth	15010 00012	525 x 525	14	ca. 55°	13
NBR5518/PP	both sides structured	15010 00018	525 x 525	18	ca. 55°	14
ISOBOARD-20	smooth / hollow chamber structure	15010 00021	560 x 560	20	ca. 45°	15
Cellasto® MH24-35	both sides smooth (cellular)	9011 0007	500 x 250	30	ca. 35°	16

*size of the full boards

larger sizes on request (via bonding, so far technically feasible)

smallest cut-to-size dimension 75 x 75 mm

smaller sizes on request (via waterjet cutting)

OO both sides smooth
 PP both sides structured

non-slip board NBR9002/OO both sides smooth



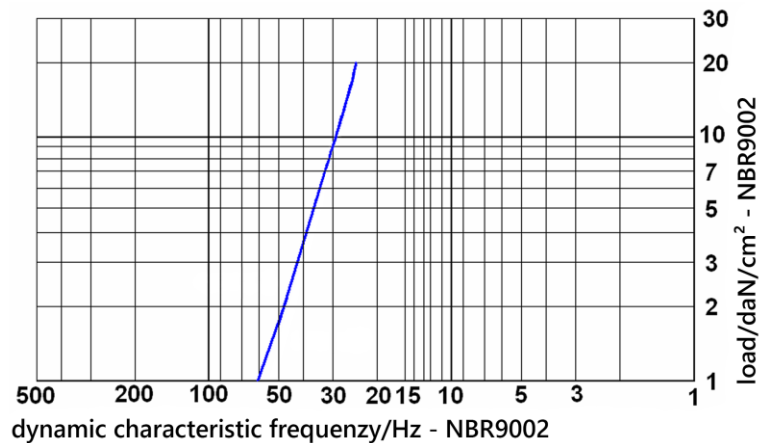
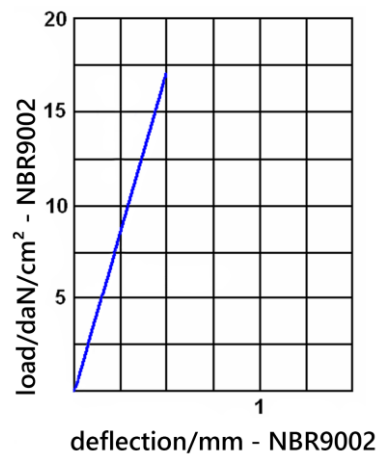
properties

hard non-slip material
made of nitrile rubber
smooth surface
meets high static and dynamic
stability criteria

suitable for:

machining centres
transfer lines
cnc-machine tools
round-and flat grinding machines
long-bedded machines with low intrinsic rigidity
drilling & milling gear

NBR9002/OO both sides smooth	
size	525 x 525 x 2 mm
mass	0,034 kg/dm ³
article number	15010 00001
load range	3 to 50 daN/cm ²
nominal load	8 daN/cm ²
pressure module	80 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 90° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



non-slip board NBR9005/OO both sides smooth



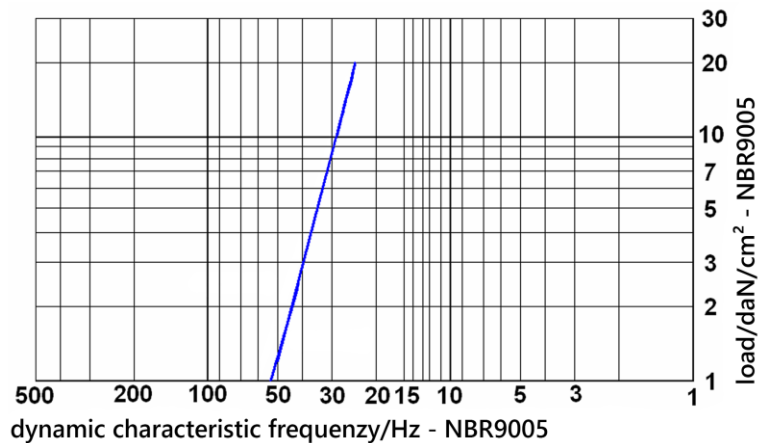
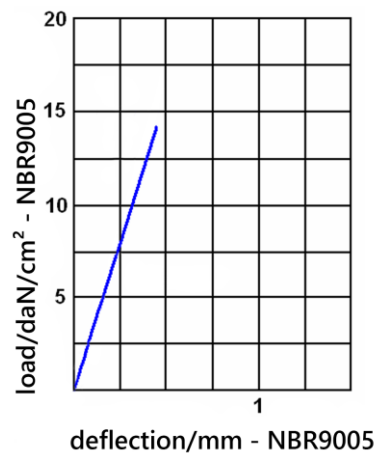
properties

hard non-slip material
made of nitrile rubber
smooth surface
meets high static and dynamic
stability criteria

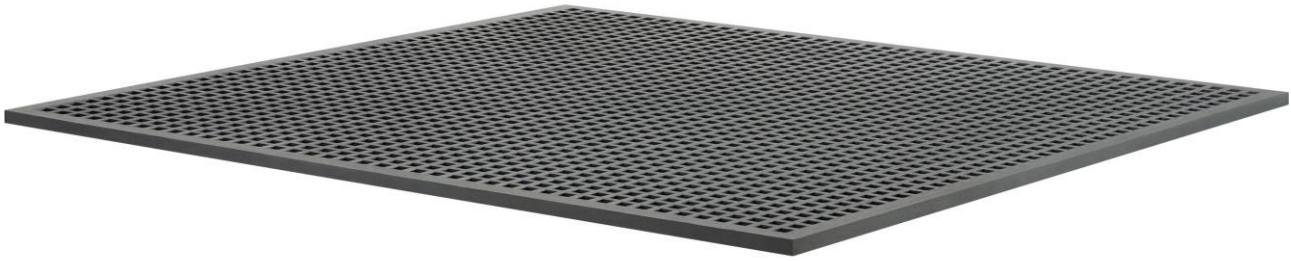
suitable for:

machining centres
transfer lines
cnc-machine tools
round-and flat grinding machines
long-bedded machines with low intrinsic rigidity
drilling & milling gear

NBR9005/OO both sides smooth	
size	525 x 525 x 5 mm
mass	0,073 kg/dm ³
article number	15010 00002
load range	3 to 50 daN/cm ²
nominal load	8 daN/cm ²
pressure module	80 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 90° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



non-slip board NBR9007/PP both sides structured



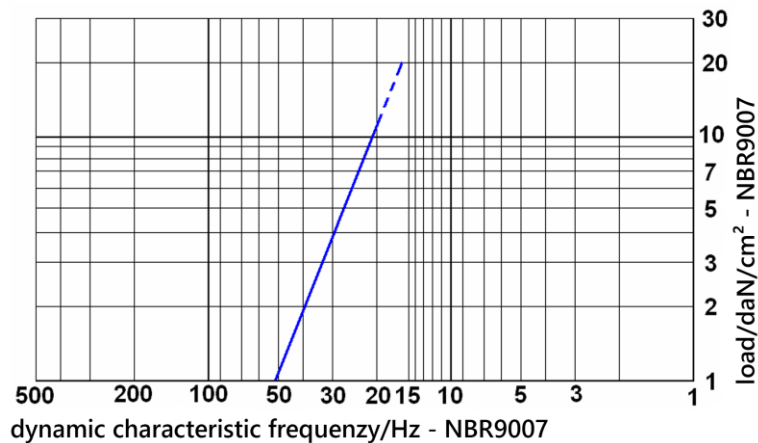
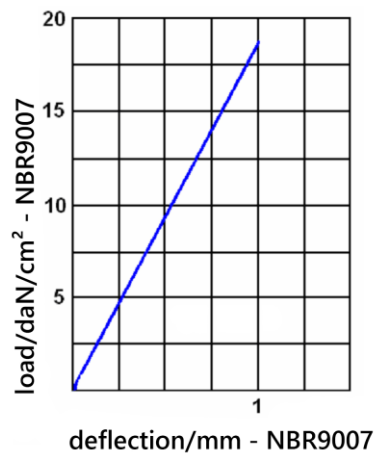
properties

hard non-slip material
made of nitrile rubber
structured surface
meets high static and dynamic
stability criteria

suitable for:

machining centres
transfer lines
cnc-machine tools
round-and flat grinding machines
long-bedded machines with low intrinsic rigidity
drilling & milling gear

NBR9007/PP both sides structured	
size	525 x 525 x 7 mm
mass	0,089 kg/dm ³
article number	15010 00004
load range	3 to 20 daN/cm ²
nominal load	8 daN/cm ²
pressure module	23 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 90° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board NBR9014/OO both sides smooth



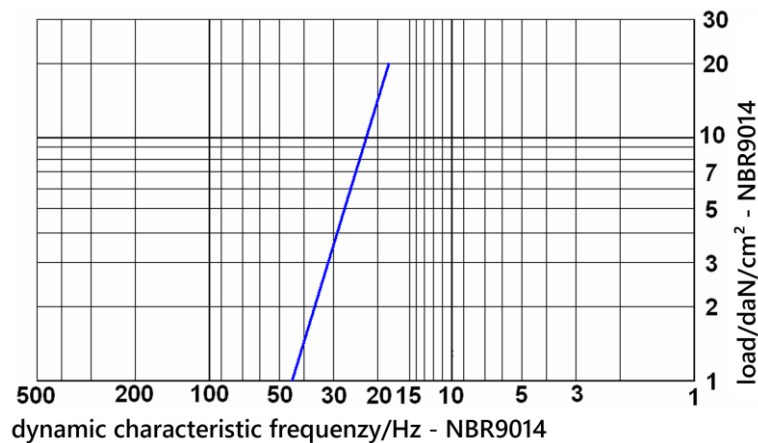
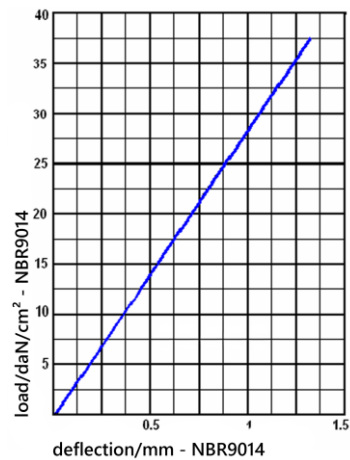
properties

hard vibration damping material
made of nitrile rubber
smooth surface
meets high static and dynamic
stability criteria

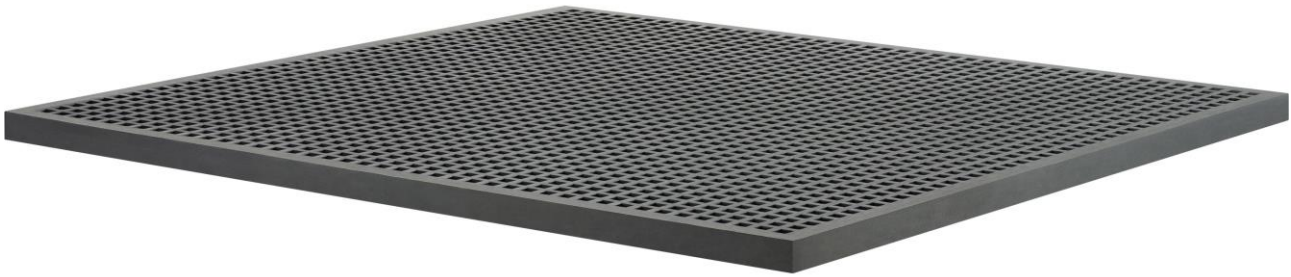
suitable for:

machining centres
transfer lines
cnc-machine tools
round-and flat grinding machines
long-bedded machines with low intrinsic rigidity
drilling & milling gear

NBR9014/OO both sides smooth	
size	525 x 525 x 14 mm
mass	0,200 kg/dm ³
article number	15010 00013
load range	3 to 35 daN/cm ²
nominal load	8 daN/cm ²
pressure module	70 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 90° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board NBR8516/PP both sides structured



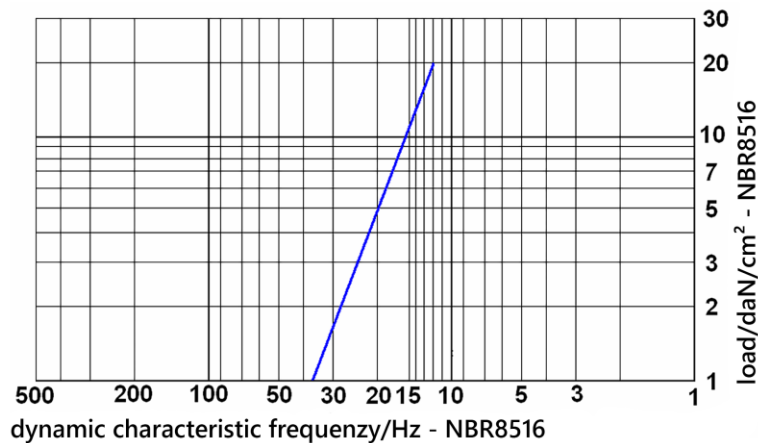
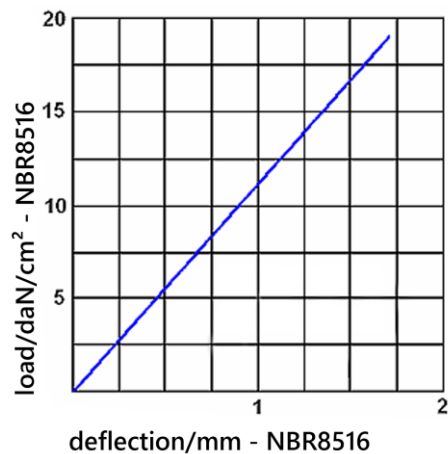
properties

hard vibration damping material
made of nitrile rubber
structured surface
meets high static and dynamic
stability criteria

suitable for:

generic machine tools
textile machines
graphics machines
machines with horizontal thrust

NBR8516/PP both sides structured	
size	525 x 525 x 16 mm
mass	0,180 kg/dm ³
article number	15010 00016
load range	5 to 35 daN/cm ²
nominal load	8 daN/cm ²
pressure module	37 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 90° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board NBR8525/PP both sides structured



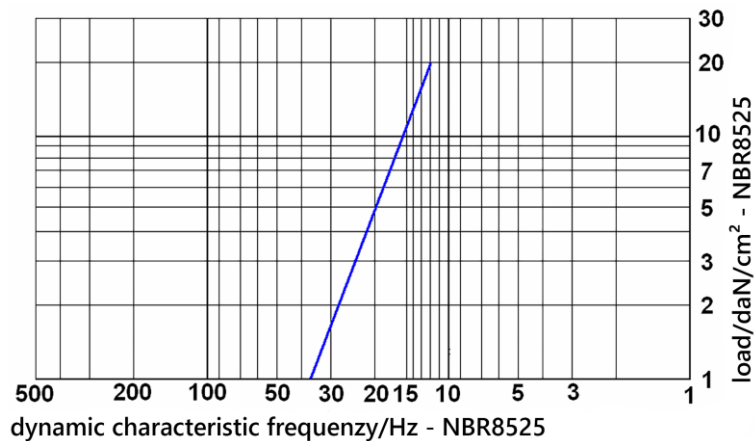
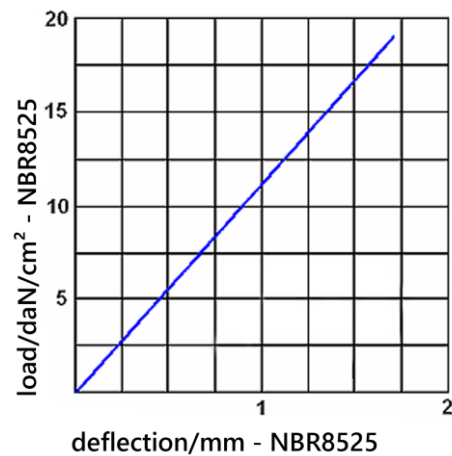
properties

hard vibration damping material
made of nitrile rubber
structured surface
meets high static and dynamic
stability criteria

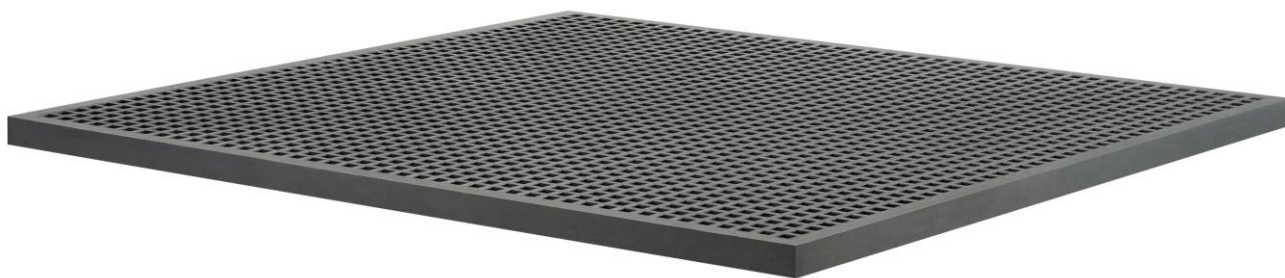
suitable for:

generic machine tools
textile machines
graphics machines
machines with horizontal thrust
higher damping effect than NBR8516

NBR8525/PP both sides structured	
size	525 x 525 x 25 mm
mass	0,340 kg/dm ³
article number	15010 00020
load range	5 to 35 daN/cm ²
nominal load	8 daN/cm ²
pressure module	37 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 90° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board NBR7516/PP both sides structured



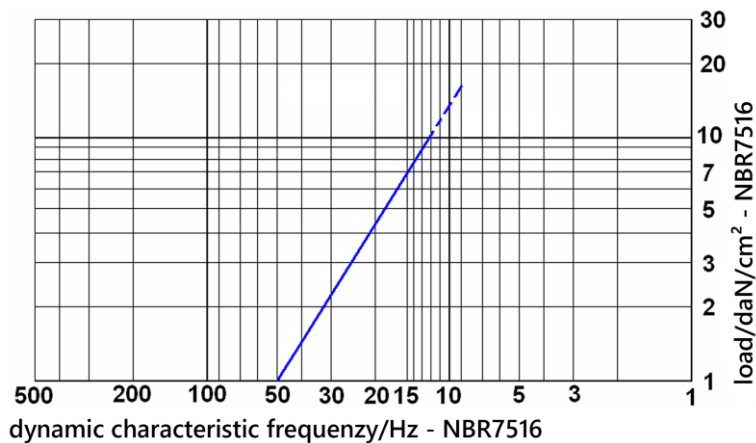
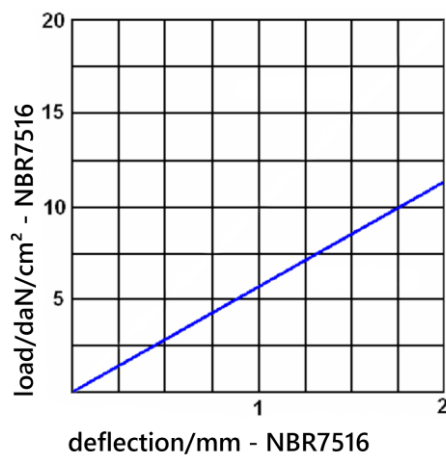
properties

medium-hard vibration damping material
made of nitrile rubber
structured surface
for isolation and damping of highly dynamic
machines

suitable for:

highly dynamic machines
presses
shears
punches
plastic-injection molding machines
compressors
pumps

NBR7516/PP both sides structured	
size	525 x 525 x 16 mm
mass	0,180 kg/dm ³
article number	15010 00015
load range	2 to 10 daN/cm ²
nominal load	8 daN/cm ²
pressure module	13,3 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 75° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board NBR7525/PP both sides structured



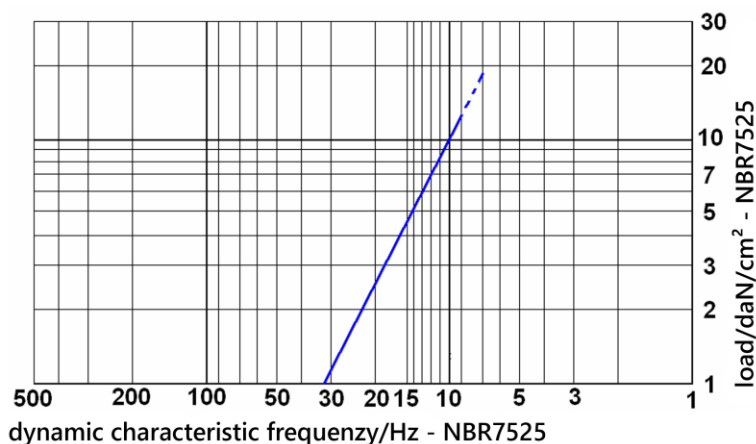
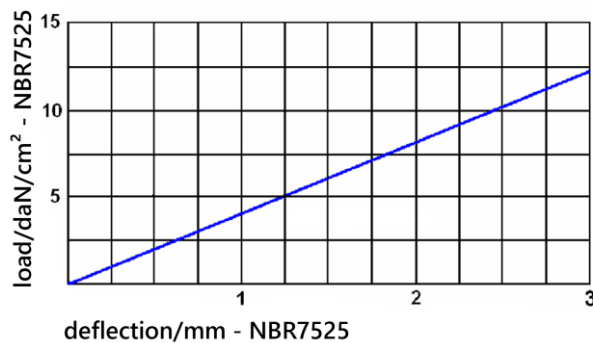
properties

medium-hard vibration damping material
made of nitrile rubber
structured surface
for isolation and damping of highly dynamic
machines

suitable for:

highly dynamic machines
presses
shears
punches
plastic-injection molding machines
compressors
pumps
higher isolation effect than NBR7516

NBR7525/PP both sides structured	
size	525 x 525 x 25 mm
mass	0,300 kg/dm ³
article number	15010 00019
load range	2 to 10 daN/cm ²
nominal load	8 daN/cm ²
pressure module	13,3 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 75° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board NBR5514/OO both sides smooth



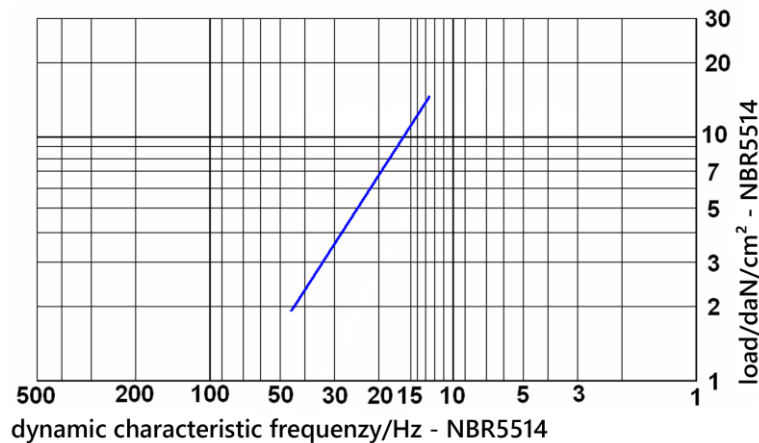
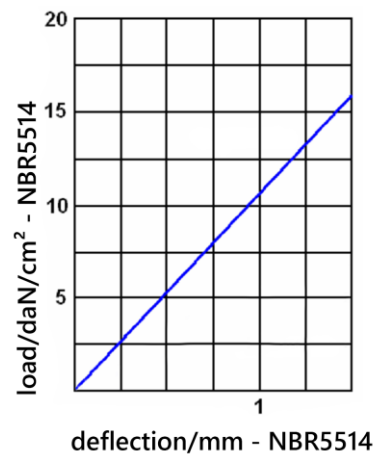
properties

soft vibration damping material
made of nitrile rubber
smooth surface
for the isolation of low-frequency vibrations
ideally suited for passive isolation

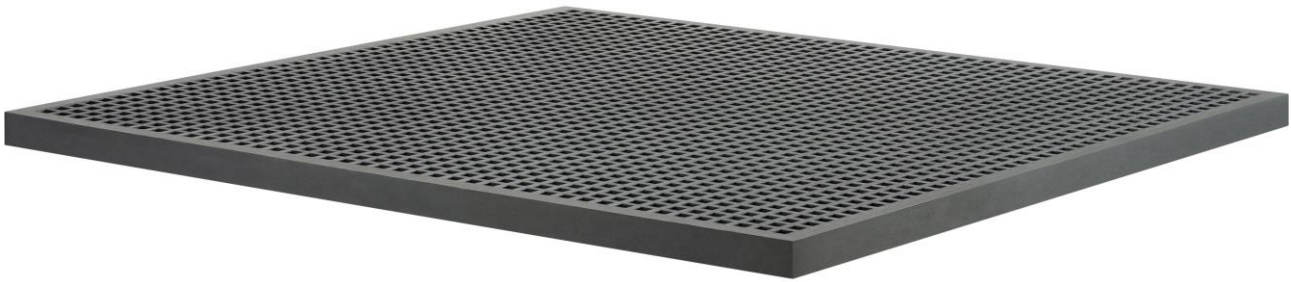
suitable for:

electronic control gear
switch cabinets
dosage equipment
metrology devices
scales
laboratory equipment
projectors and drives

NBR5514/OO both sides smooth	
size	525 x 525 x 14 mm
mass	0,175 kg/dm ³
article number	15010 00012
load range	0,5 to 5 daN/cm ²
nominal load	2 daN/cm ²
pressure module	3 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 55° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board NBR5518/PP both sides structured



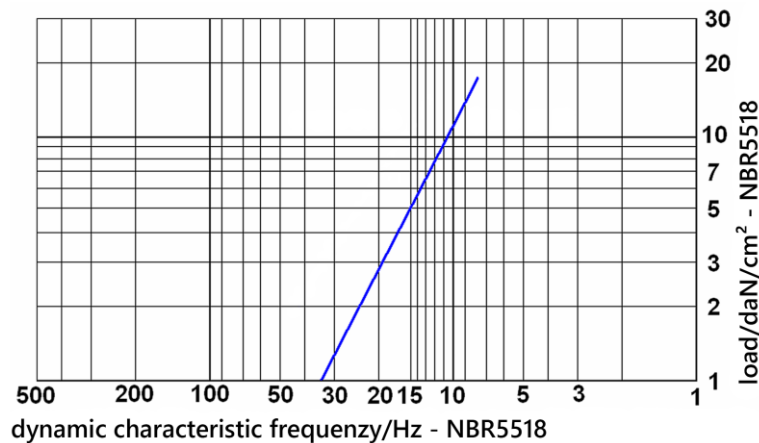
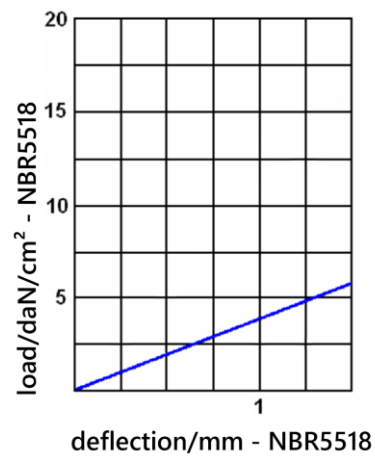
properties

soft vibration damping material
made of nitrile rubber
structured surface
for the isolation of low-frequency vibrations
ideally suited for passive isolation

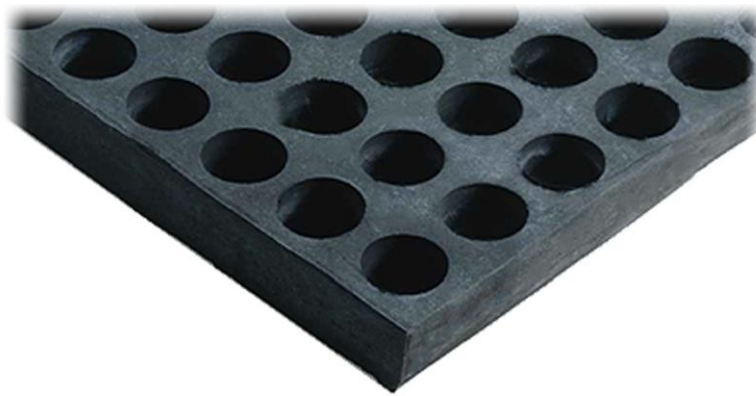
suitable for:

electronic control gear
switch cabinets
dosage equipment
metrology devices
scales
laboratory equipment
projectors and drives
higher isolation effect than NBR5514

NBR5518/PP both sides structured	
size	525 x 525 x 18 mm
mass	0,200 kg/dm ³
article number	15010 00018
load range	0,5 to 5 daN/cm ²
nominal load	2 daN/cm ²
pressure module	3 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 55° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board ISOBOARD-20 smooth / hollow chamber structure



properties

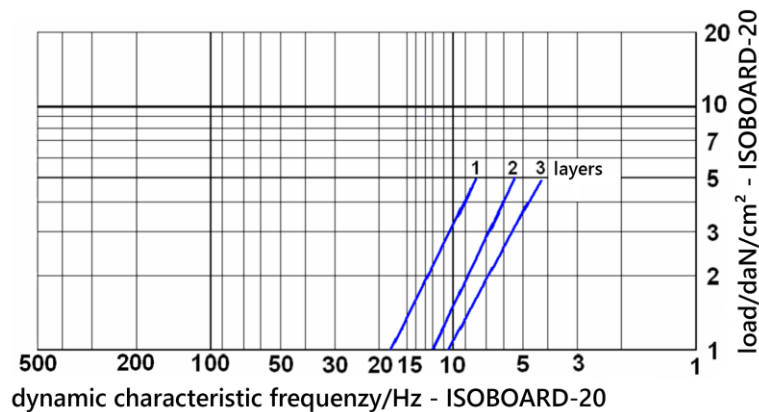
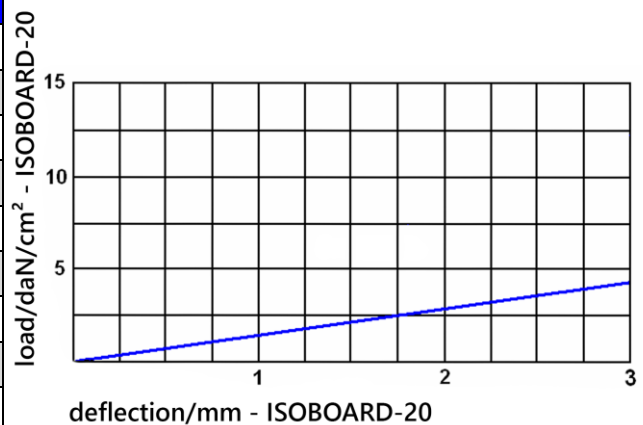
very soft vibration damping material
with hollow chamber structure

diameter of the hollow chambers 20 mm
distance 7 mm

suitable for:

ISOBOARD-20, applied in single or multiple layer settings, effects low intrinsic frequencies between 7 and 13 Hz at budget cost

ISOBOARD-20 smooth / hollow chamber structure	
size	560 x 560 x 20 mm
mass	0,173 kg/dm ³
article number	15010 00021
load range	1 to 4,5 daN/cm ²
nominal load	2 daN/cm ²
pressure module	3 N/mm ²
temperature range	-30 bis +120°C
hardness	ca. 45° Shore (A) +/- 5
friction coefficient	steel 0,7 / wood 0,75 / concrete 0,8



absorbtion board Cellasto® MH24-35 both sides smooth (cellular)



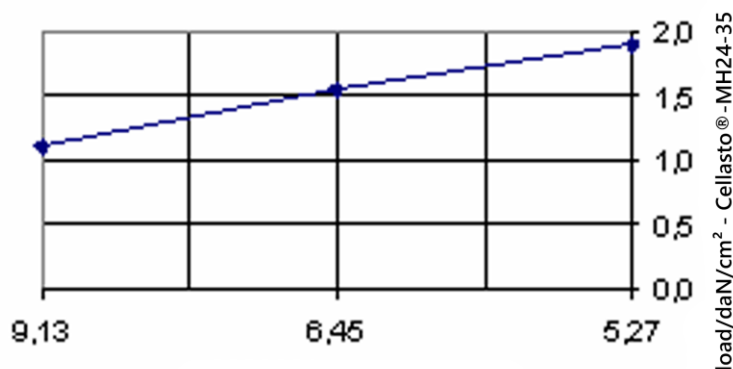
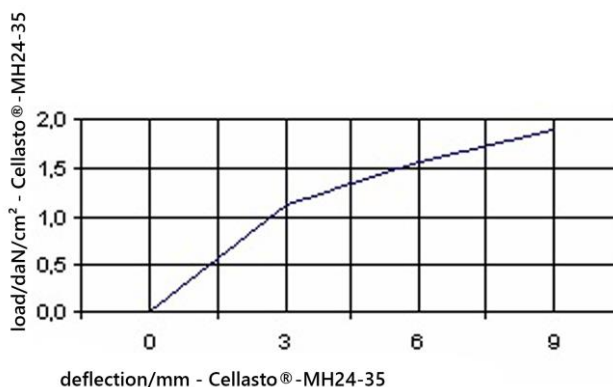
properties

very soft vibration damping material
made of cellular polyurethane

suitable for:

effecting low intrinsic frequencies
from 5,3 to 10 Hz
with devices having a small weight of its own
facility installations
metrology gear
isolation of structure-borne noise

Cellasto® MH24-35 both sides smooth (cellular)	
size	500 x 250 x 30 mm
mass	350 g/dm ³
article number	9011 0007
maximum load	1,9 daN/cm ²
static deflection	9 mm



dynamic characteristic frequency/Hz - Cellasto®-MH24-35

Technical modifications subject to change! Any previous versions of this document are herewith null and void!