THE LEADING TECHNOLOGY IN STANDARDIZED TIMBER CONNECTION SYSTEMS

SOUND-PROOFING

SHERPA CONNECTION SYSTEMS

- Customer-tailored strips
- Proven long-term behaviour and excellent durability
- High degree of elasticity and long service lifet

SHERPA®

NOISE IS:
EVERY „DISRUPTIVE“ SOUND

BASIC SOUND PROTECTION PRINCIPLES

UNITS / TERMS (ÖNORM (AUSTRIAN STANDARD) B 8115-1):

WHAT IS SOUND?

Sound is a collective term for mechanical vibrations with frequencies within a range audible for the human ear (approximately 16 Hz to 20,000 Hz).

WHICH “TYPES OF SOUND” ARE THERE?

- Airborne sound
- Structure-borne sound
- Fluid-borne sound (not of great significance in the construction business)

FREQUENCY F HERTZ [HZ]

Number of sound vibrations per second. The tone pitch rises as the frequency increases.

SOUND LEVEL (SOUND PRESSURE LEVEL) L DECIBELS [DB]

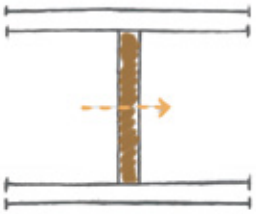
Tenfold, common logarithm of the ratio between the squares of the root mean square of the sound pressure (p) and the reference sound pressure (p0), expressed in decibels. The reference sound pressure totals 20 pPa, which accords approximately with the human threshold of hearing (approx. 1,000 Hz). $L = 10 \lg (p^2 / p0^2)$

A-WEIGHTED SOUND LEVEL LA [DB(A)]

If the noise level is measured (with a standardised frequency weighting filter A), we obtain the A-weighted sound level.

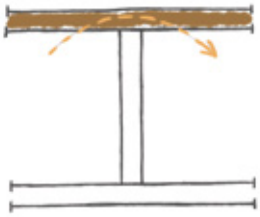
AIRBORNE SOUND

UNITS OF THE SOUND ABSORPTION COEFFICIENT R



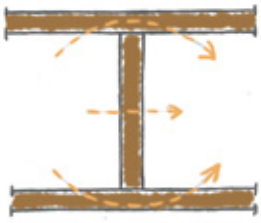
R [DB] AND R_W [DB]

Sound insulation measurements for a separating component between two rooms (sound transmission only via the components, not via the flanking components)



R_L [DB] AND R_{LW}/R'_{LW} [DB]

Linear sound insulation measurements for flanking components between two rooms (noise transmission exclusively via the flanking components)



R´ [DB] AND R'_W [DB]

Sound insulation measurements for separating component (sound transmission via component and flanking components)

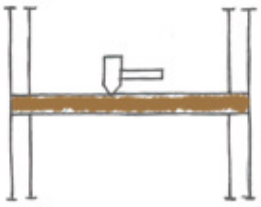
IMPACT SOUND

UNITS, SOUND INSULATION MEASUREMENTS L

STANDARD IMPACT SOUND LEVEL

L_N [DB]

Impact sound level, related to the standardised sound absorption area of A0 = 10 m² in the reception room, taking into account the sound absorption area.



L'_N [DB]

Like Ln, but also taking the flanking component transmission into consideration.

WEIGHTED STANDARD IMPACT SOUND LEVEL

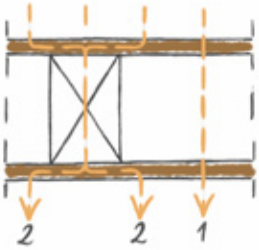
L_{NW} [DB]

Singular statement for the impact sound insulation of a component over the entire frequency range 100 Hz to 3,150 Hz.

L'_{NW} [DB]

Like Lnw, but also taking the flanking component transmission into consideration.

CONSTRUCTIONAL POSSIBILITIES FOR THE IMPROVEMENT OF THE SOUND INSULATION OF BUILDING PARTS



First of all, we must emphasise that there are almost no sound pressure-free construction methods in structural engineering!

There are 2 ways via which the sound is transmitted:

METHOD 1: VIA THE MASONRY FILLING

METHOD 2: VIA THE BARS

SOUNDPROOF BEARINGS

DESCRIPTION OF MATERIAL OF THE SOUNDPROOF BEARINGS

Regufoam is a waterproof, rot-proof and mixed cellular polyurethane foam produced in twelve different strength levels. These various degrees of hardness are distinguished by colour. At the standard thicknesses of 12.5 and 25 mm a wide range of bearing frequencies can be achieved up to 8 Hertz.

Due to our years of experience in the use of polyurethane insulation substances for the isolation of vibrations, we are able to offer conventional and reliable solutions.

PREFABRICATION OF SOUND PROTECTION BEARINGS

We punch out the strips to the width you require. The minimum width totals 6 cm.

Fixing with SHERPA CLT connector

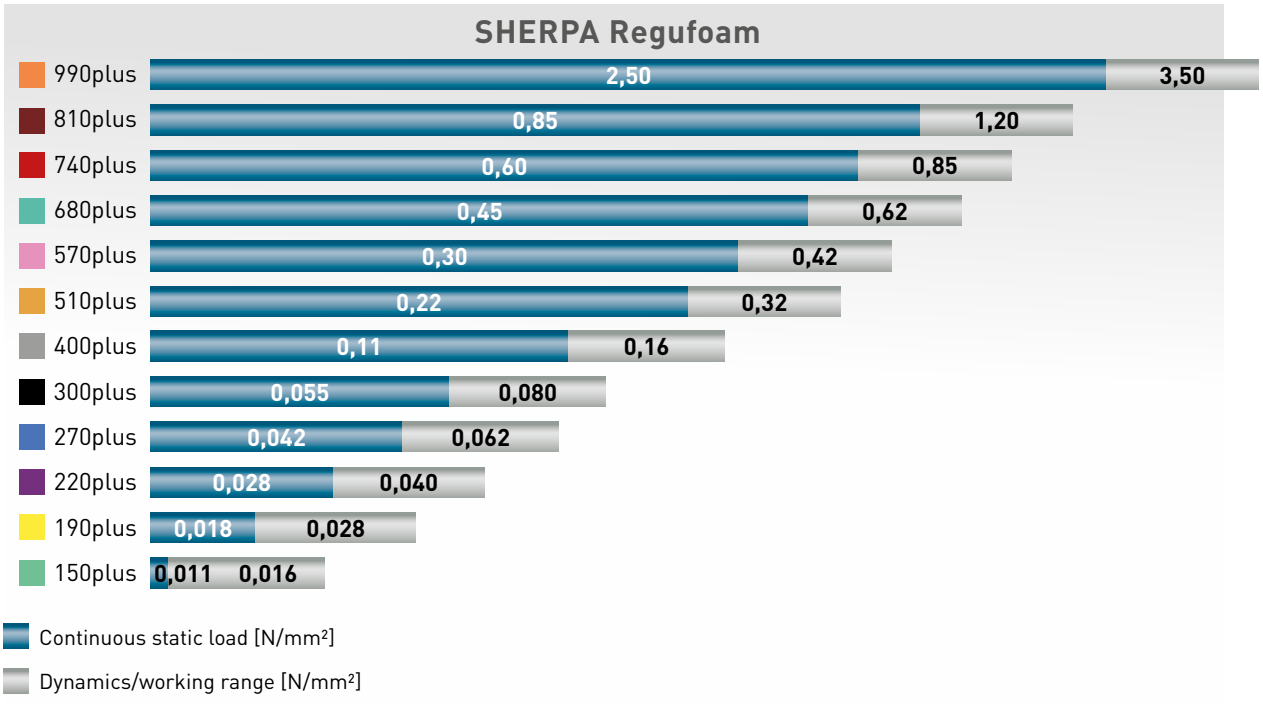
PRE-MEASUREMENT OF SOUND PROTECTION BEARINGS

For timber frame walls and solid wooden walls with constant and fluctuating loads

DESIGNATION	WIDTH [MM]	LINEAR LOAD [1]					
		100 MM: 0,2 N/MM²	100 MM: 0,4 N/MM²	100 MM: 0,6 N/MM²	100 MM: 0,8 N/MM²	100 MM: 1,0 N/MM²	100 MM: 1,2 N/MM²
		200 MM: 0,1 N/MM²	200 MM: 0,2 N/MM²	200 MM: 0,3 N/MM²	200 MM: 0,4 N/MM²	200 MM: 0,5 N/MM²	200 MM: 0,6 N/MM²
Regufoam 400 plus	100						
	200	■					
Regufoam 510 plus	100	■					
	200	■	■				
Regufoam 570 plus	100	■	■				
	200	■	■	■			
Regufoam 680 plus	100	■	■	■			
	200	■	■	■	■		
Regufoam 710 plus	100	■	■	■	■		
	200	■	■	■	■	■	
Regufoam 810 plus	100	■	■	■	■	■	
	200	■	■	■	■	■	■
Regufoam 990 plus	100	■	■	■	■	■	■
	200	■	■	■	■	■	■

[1] Linear load consisting of dead load, useful load and variable load

The loads accepted revolve around a sample object. Every construction plan should be preceded by computation by a building physicist/statistician!



The loads accepted revolve around a sample object. Every construction plan should be preceded by computation by a building physicist/statistician!

SOUND PROTECTION IN STRUCTURAL ENGINEERING

In cooperation with architects Nussmüller, Kulmer Holz-Leimbau, Aktiv Klimahaus and other partners.

Sound is generated through the use of building constructions, whether residential constructions, schools, commercial properties or other structures. This sound is absorbed by the perimeter structural elements and then transferred depending on the quality of these components. Mechanical stresses on components cause structure-borne sound which is then transferred.
In neighbouring areas of the structure, this sound is then imitated depending on the construction substances involved, and may then occur as disruptive sound ("noise"). The insulation characteristics of a construction are not only dependent on its mass, but also on the type of connection to the neighbouring components and therefore on the joint insulation.

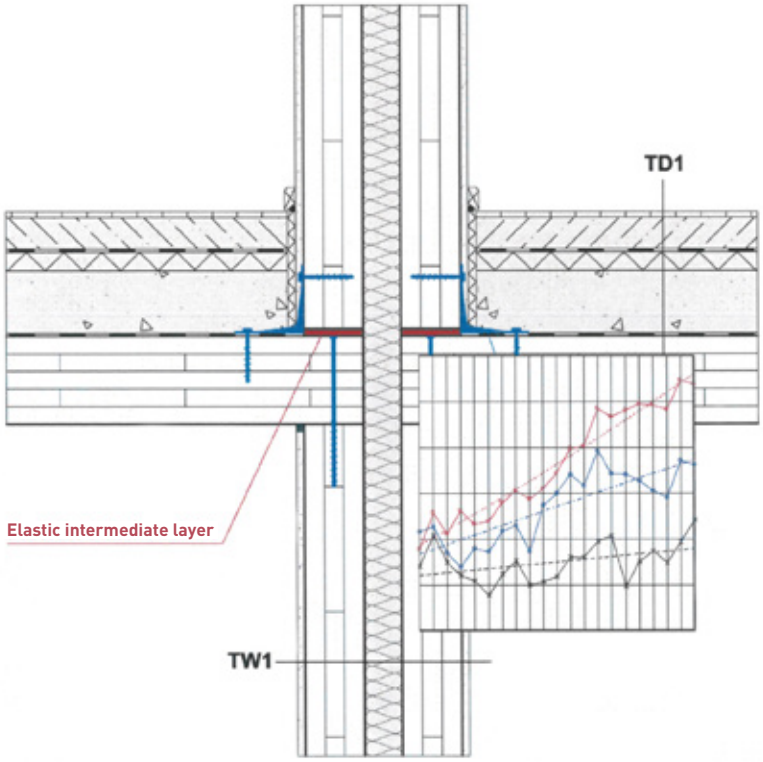
SOUND PROTECTION FOR NEW QUALITY OF LIFE

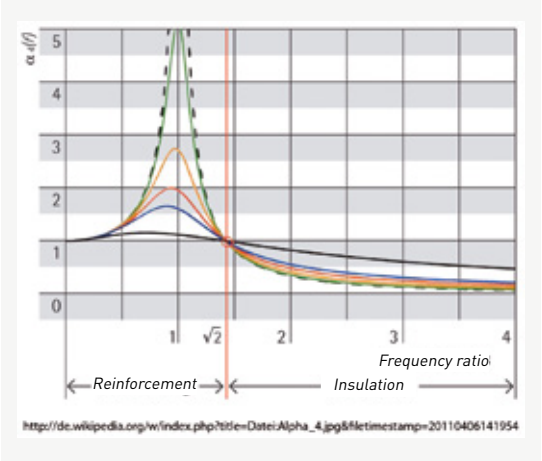
A sustainable and energy-saving large-scale project was completed in July 2015 in the Peter-Rosegger-Straße in Graz. The focus was primarily placed on the supply of renewable energy, eMobility and the passive-house standard for these 12 residential buildings featuring a total of 162 residential units, distributed over up to 5 storeys.
This residential complex is the first 5-storey timber construction in Styria. Commercial and office units as well as a supermarket round off the concept.

In particular in the case of projects where commercial and office areas meet residential units, sound insulation is an important aspect. The passive and active insulation, a foundation decoupling or the vibration protection of buildings are the classic areas of application where the sound protection bearings by SHERPA Connection Systems GmbH are processed. Not just their extreme permanent elasticity and the excellent thermal properties make the sound protection bearings an innovative material for your construction site, but also the prefabrication to your desired width for optimised storage shortens lead times so that your project can be rapidly and optimally implemented. This guarantees optimum living quality!

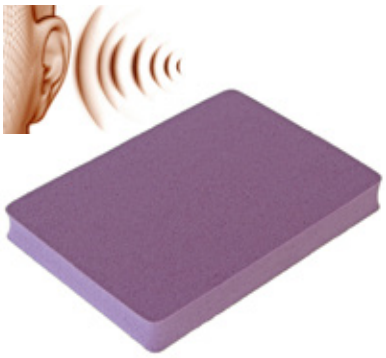
The calculations for air-borne and impact sound protection take place in accordance with the ÖNORM B 8115-4 or the EN 12354-1 and -2. Particularly important for the determination of the sound insulation is the correct consideration of the joint insulation. The solid wooden constructions usual in timber construction were measured within the scope of a research project by the HFA. From this research project, calculation procedures and tables for simple determination of the design solutions were developed.
Basically, knowledge of the elastic characteristics of the bearing and the excitation of the bearing are essential for structure-borne sound decoupling. Here the natural frequency of the structure to be insulated plays a decisive role for the element, as vibration isolation does not occur unless the frequency ratio is larger than √2. The frequency ratio describes the excitation frequency of the natural bearing frequency. At the same time, the isolation characteristics are influenced through the damping of the element. The higher the damping, the lower the isolating effect. Depending on the application (weight, frequency range, type of excitation), very different components and materials are used. Here there is no difference between vibration isolation and structure-borne sound insulation. The difference/separation is conducted in accordance with the considered frequency ranges. The vibration isolation generally features tuning frequencies below 25 Hz.

The principles of structure-borne sound insulation can only be applied for the improvement of sound protection in wooden constructions. Using the same materials, staircases, floor constructions or machines can also be decoupled.





Regufoam 220 plus

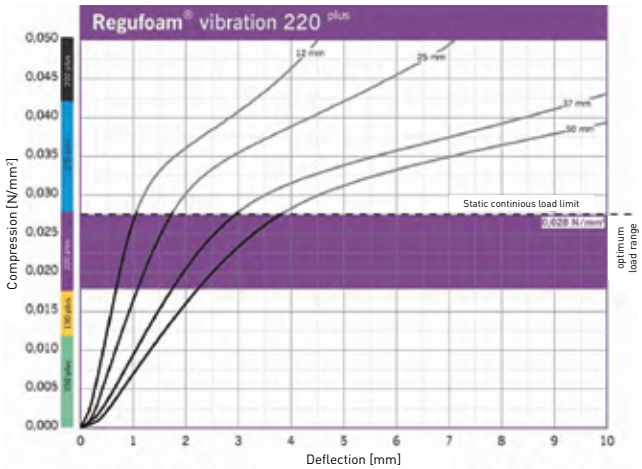


Technical data		
Static modulus of elasticity	**in adherence to EN 826**	0,15 to 0,35 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	0,35 to 0,75 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	0,5 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	39 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

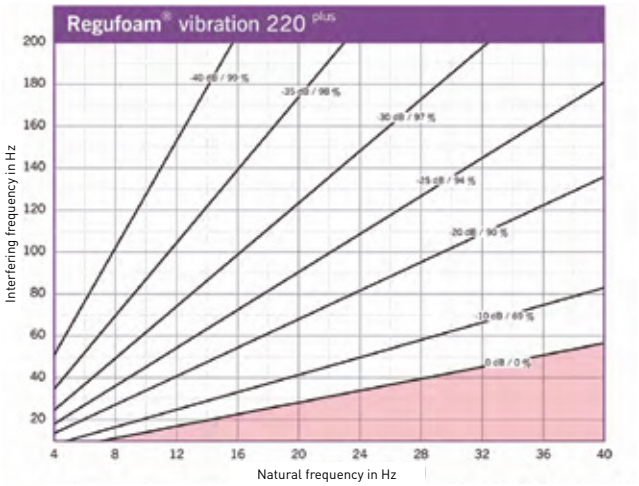
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000027843	S	12,5	1,5	86,50

DEFLECTION



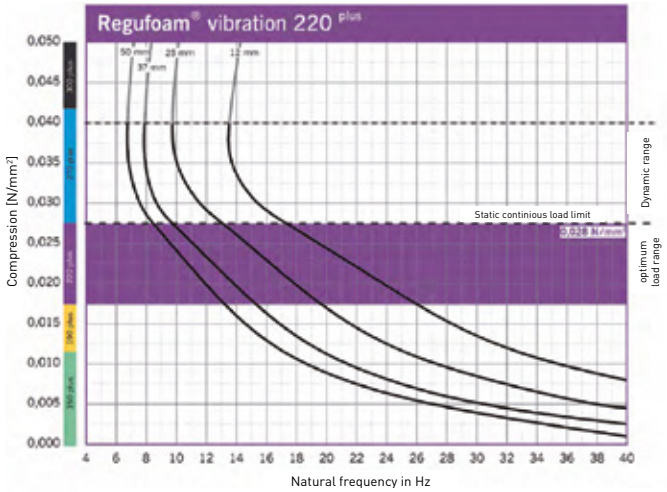
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



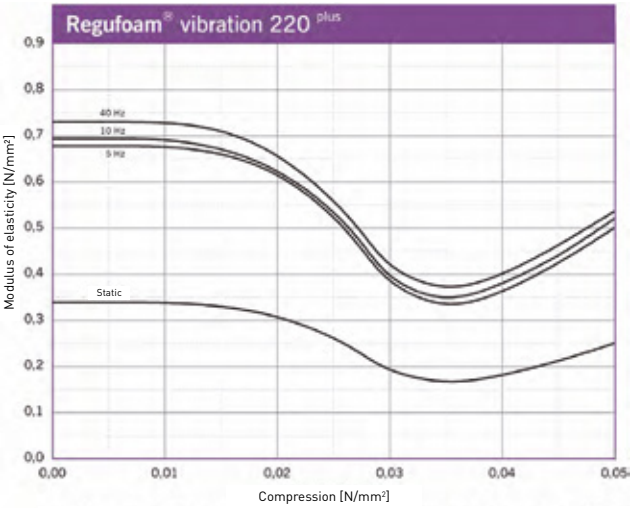
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 220 plus**. Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 220 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY

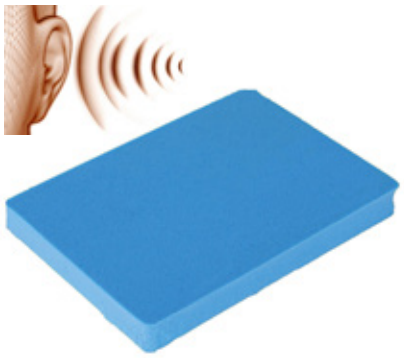


Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

Regufoam 270 plus

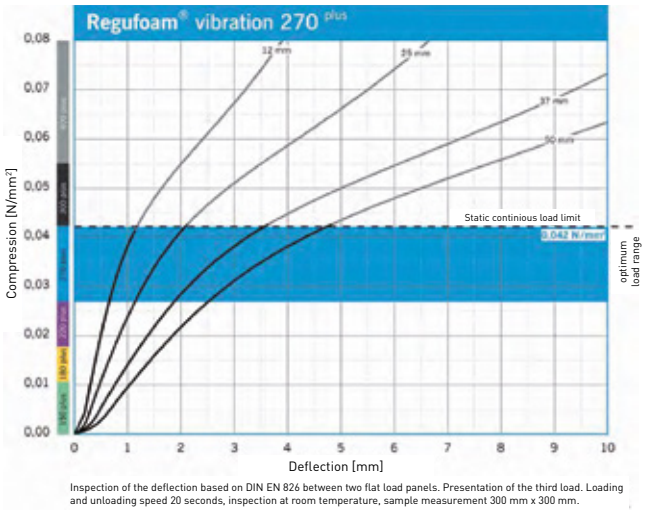


Technical data		
Static modulus of elasticity	**in adherence to EN 826**	0,25 to 0,45 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	0,60 to 1,05 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	0,9 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	63 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

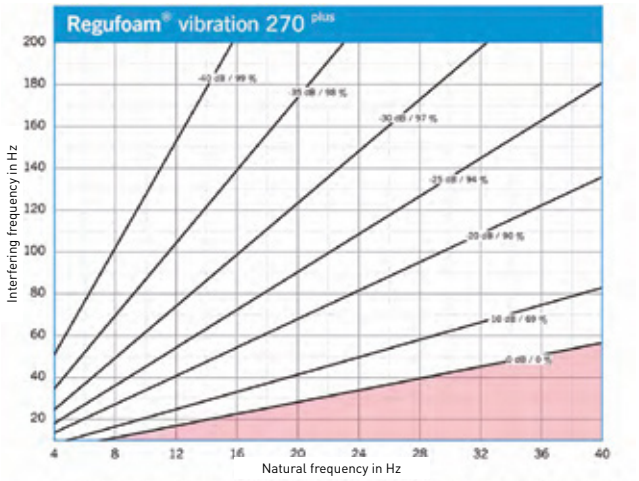
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000027844	L	12,5	1,5	103,90

DEFLECTION



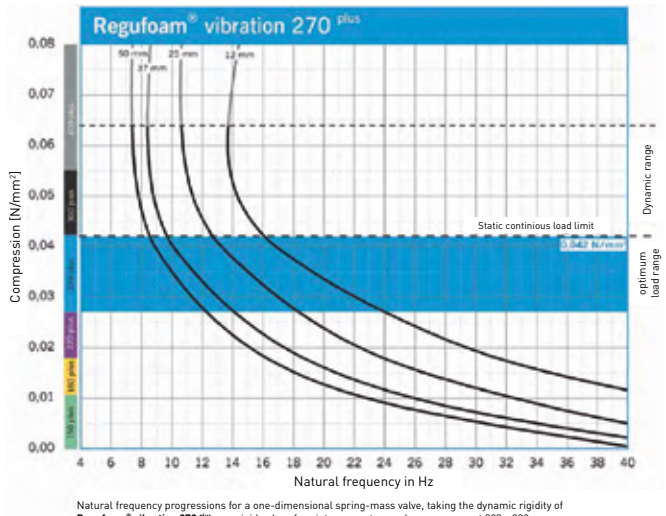
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



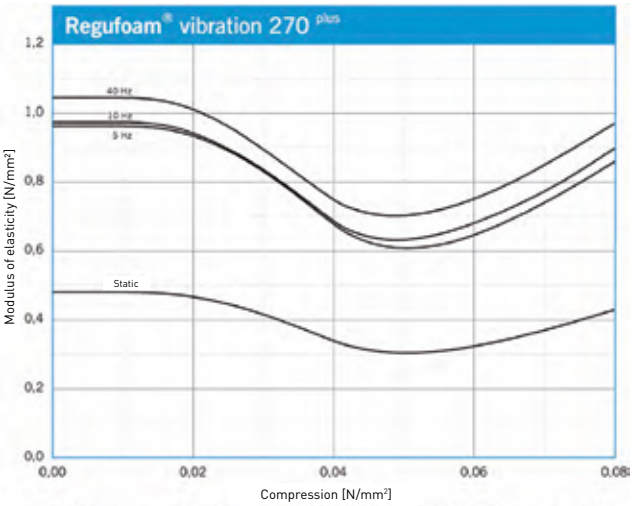
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 270 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 270 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

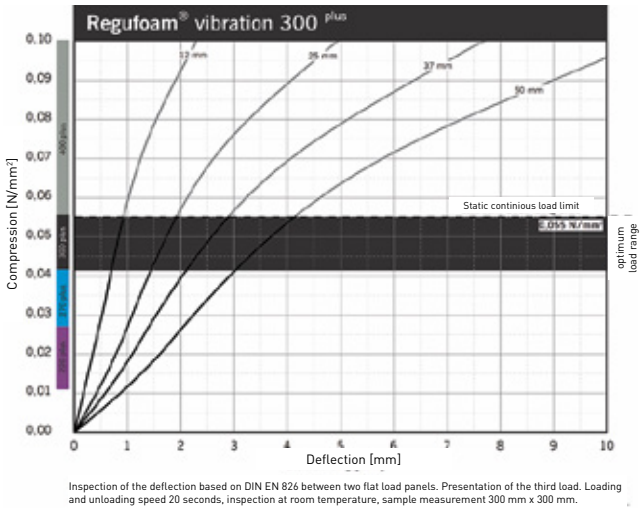
Regufoam 300 plus

Technical data		
Static modulus of elasticity	**in adherence to EN 826**	0,35 to 0,58 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	0,68 to 1,25 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	1,2 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	82 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

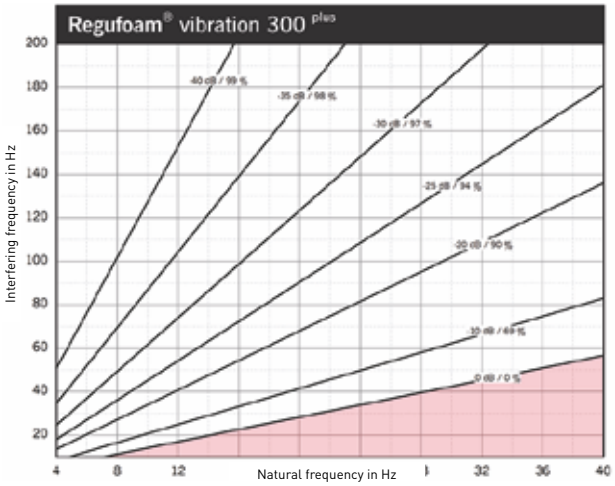
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000026958	S	12,5	1,5	112,60

DEFLECTION



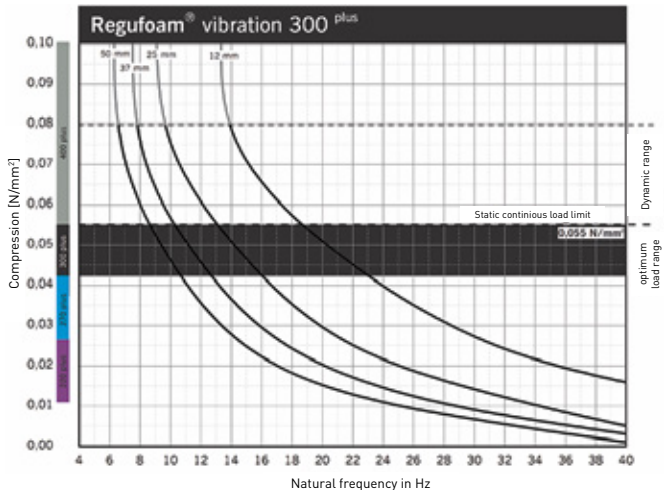
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



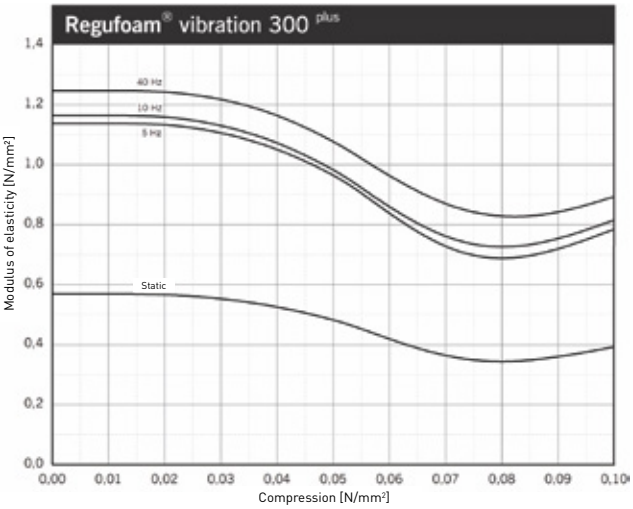
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 300 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 300 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

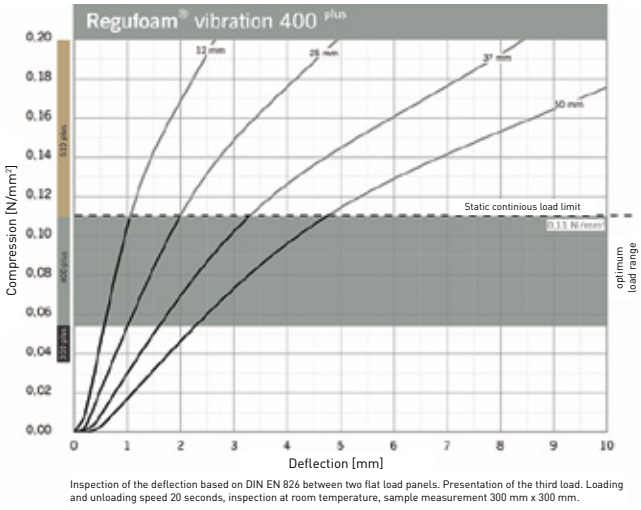
Regufoam 400 plus

Technical data		
Static modulus of elasticity	**in adherence to EN 826**	0,6 to 1,0 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	1,2 to 2,0 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	1,5 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	170 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

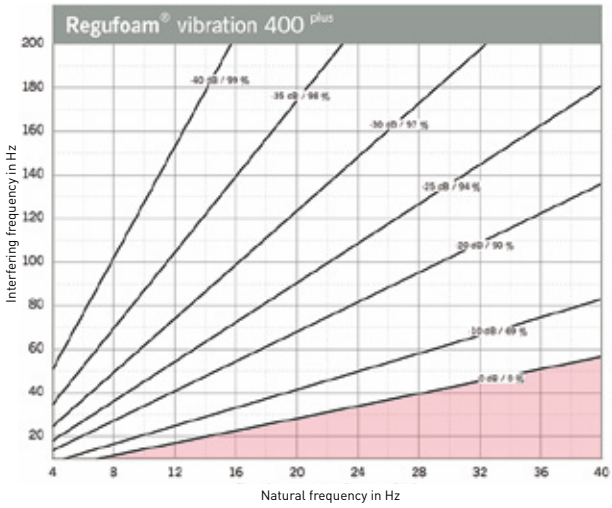
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000025759	L	12,5	1,5	151,50

DEFLECTION



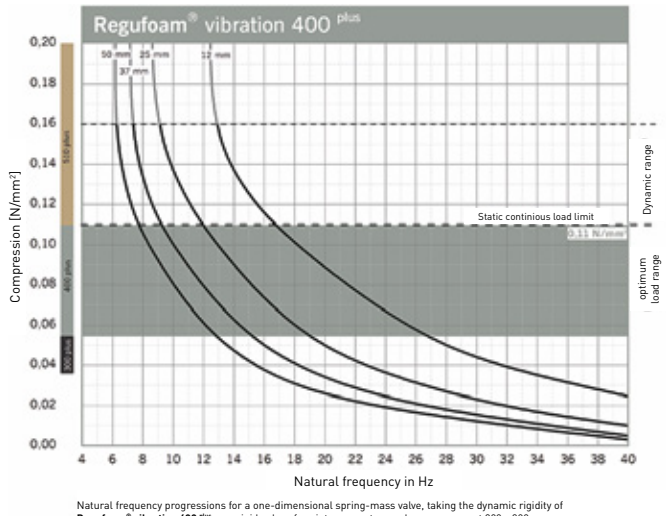
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



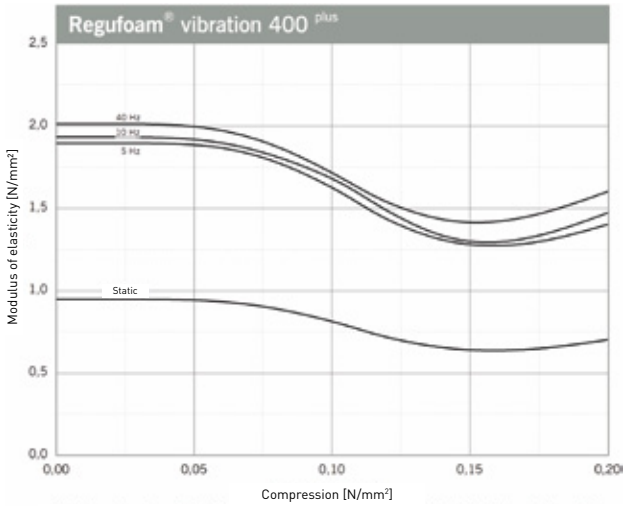
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 400 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 400 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY

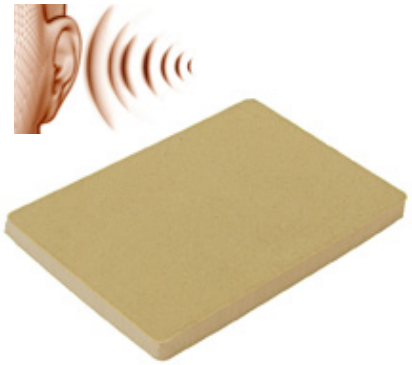


Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

Regufoam 510 plus

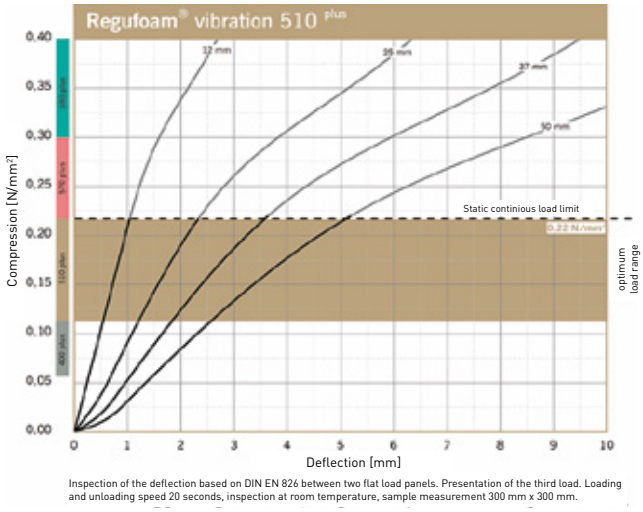


Technical data		
Static modulus of elasticity	**in adherence to EN 826**	1,1 to 1,7 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	2,2 to 3,7 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	2,4 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	330 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

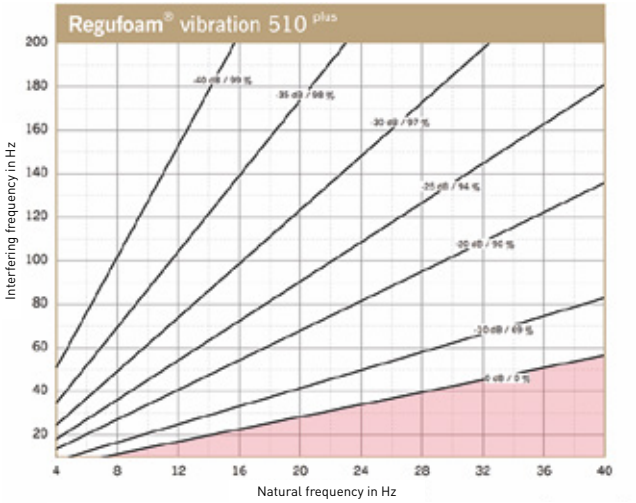
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000025760	S	12,5	1,5	186,20

DEFLECTION



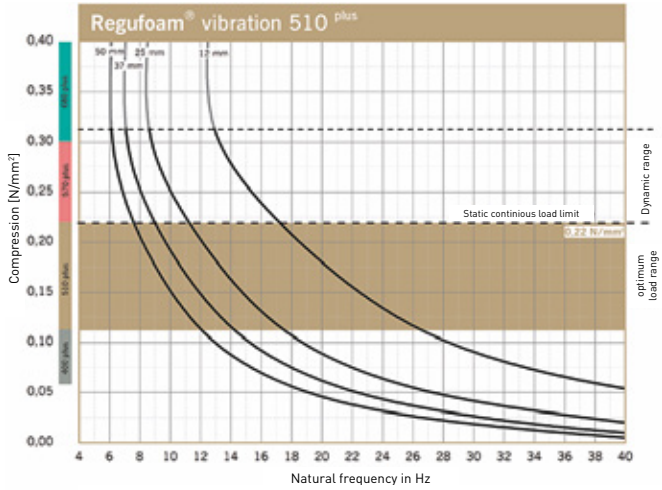
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



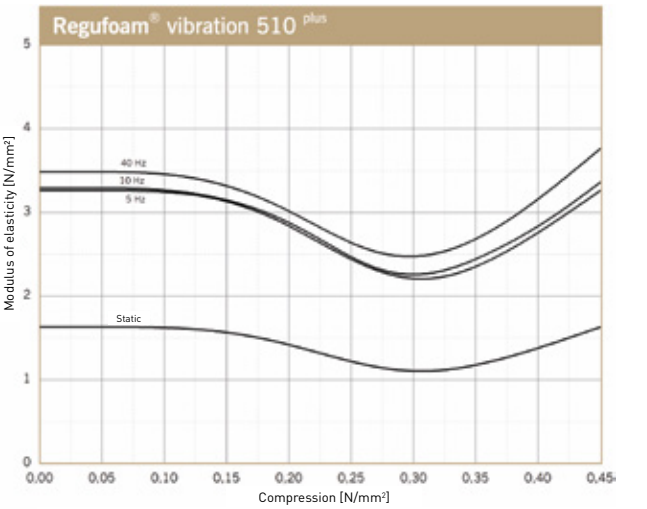
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 510 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 510 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

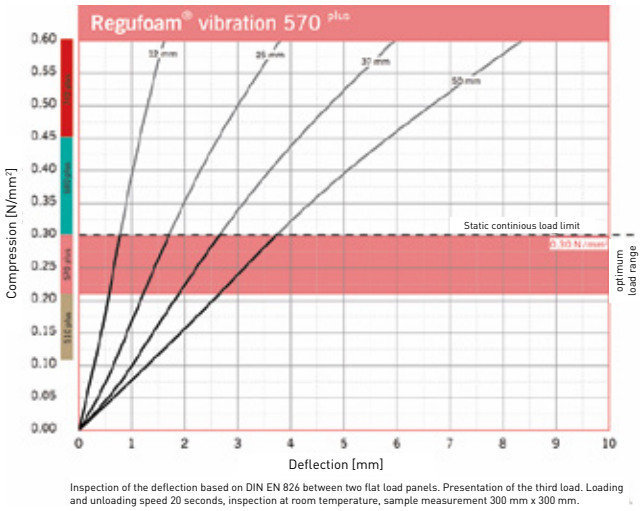
Regufoam 570 plus

Technical data		
Static modulus of elasticity	**in adherence to EN 826**	2,6 to 2,7 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	5,1 to 6,3 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	2,9 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	620 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

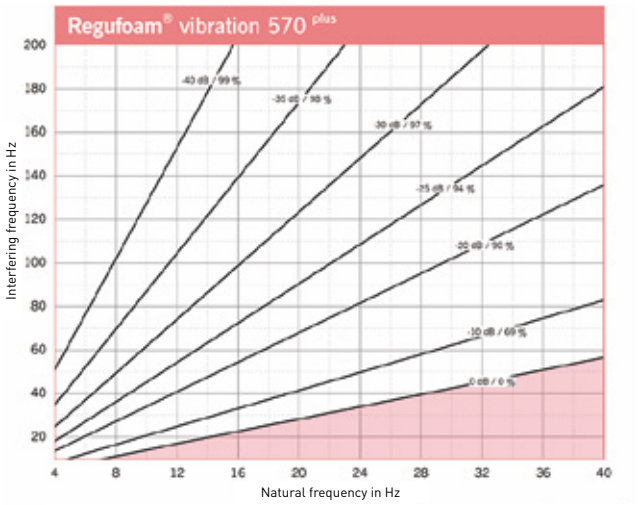
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000025901	L	12,5	1,5	208,50

DEFLECTION



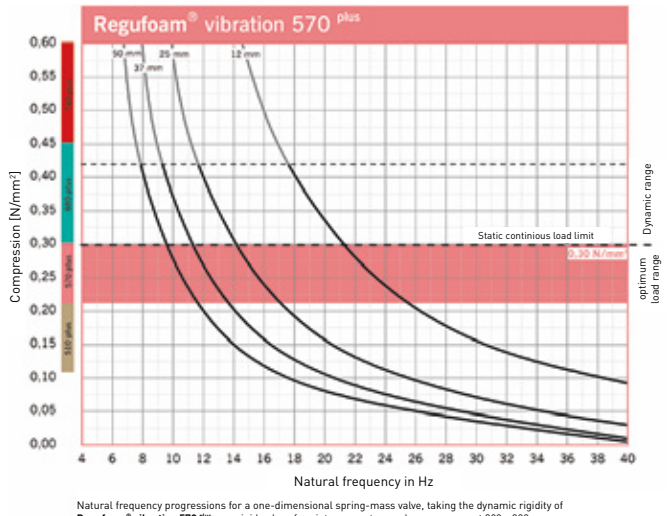
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



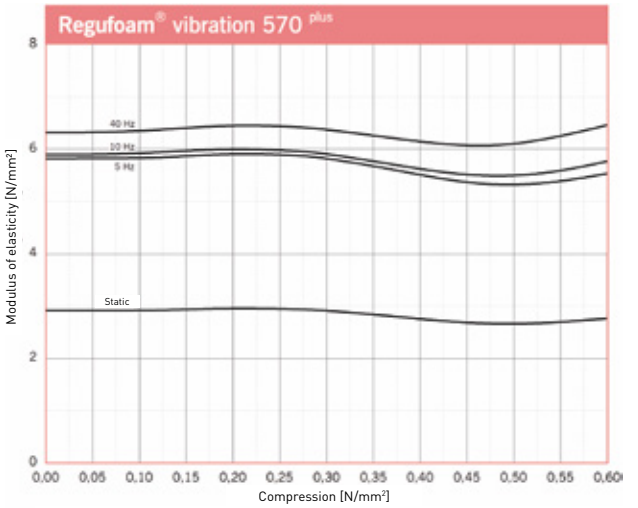
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 570 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 570 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY

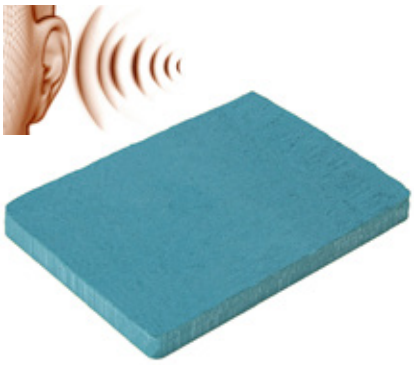


Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

Regufoam 680 plus

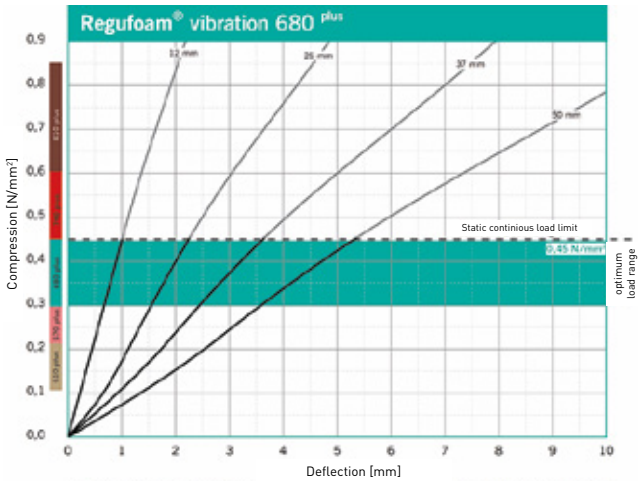


Technical data		
Static modulus of elasticity	**in adherence to EN 826**	2,0 to 2,9 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	6,8 to 10,0 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	3,6 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	840 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

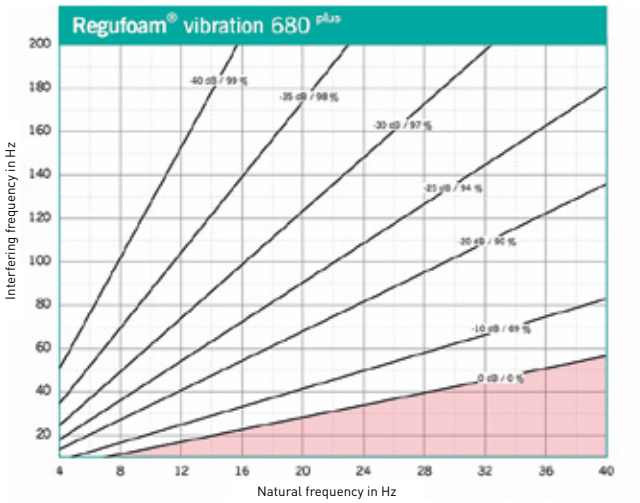
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000025761	S	12,5	1,5	246,80

DEFLECTION



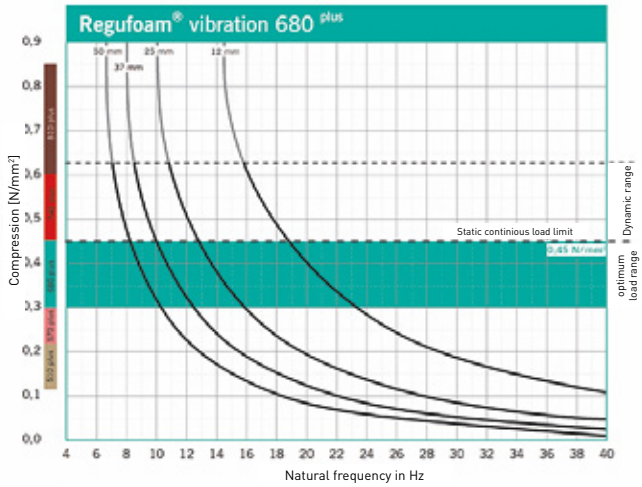
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



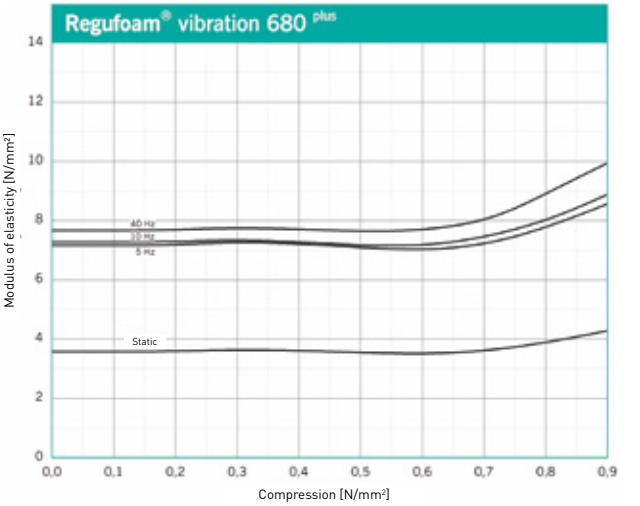
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 680 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 680 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

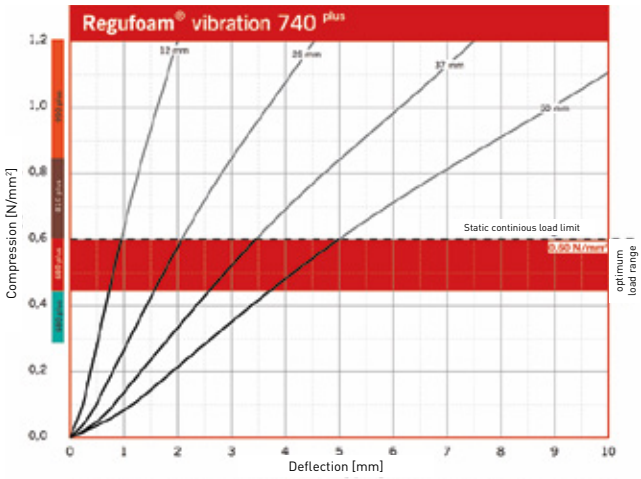
Regufoam 740 plus

Technical data		
Static modulus of elasticity	**in adherence to EN 826**	4,3 to 5,9 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	7,9 to 13,0 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	4,0 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	1.050 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

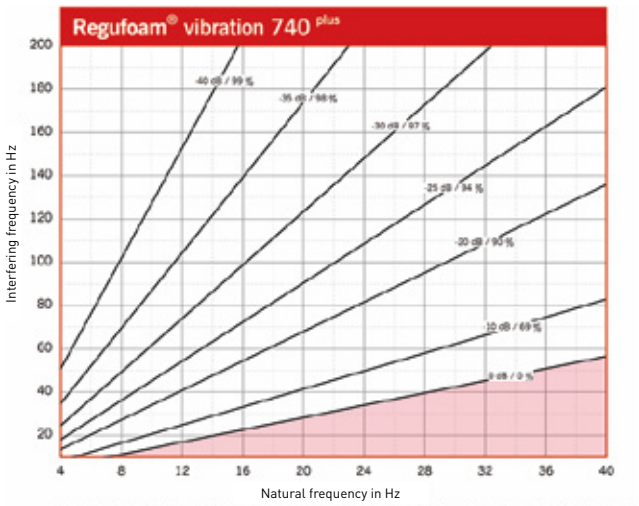
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000025902	L	12,5	1,5	277,50

DEFLECTION



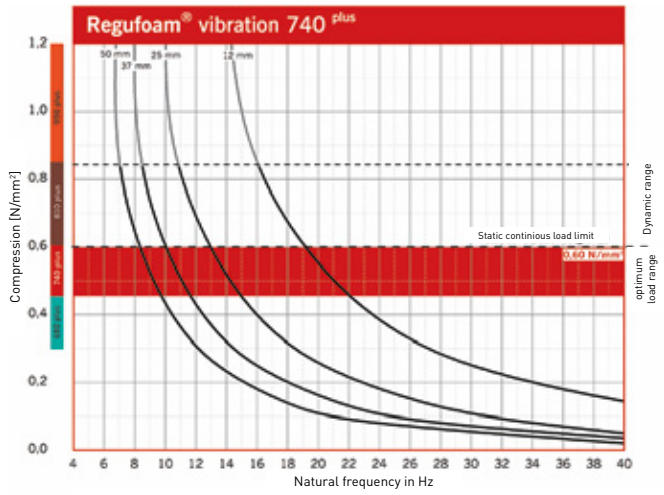
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



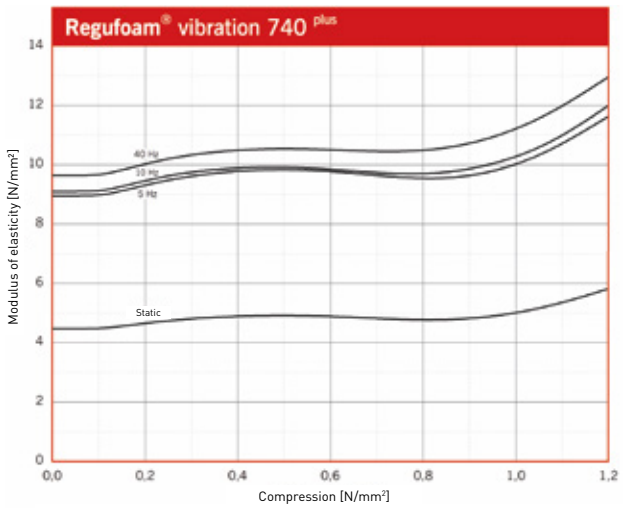
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 740 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 740 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

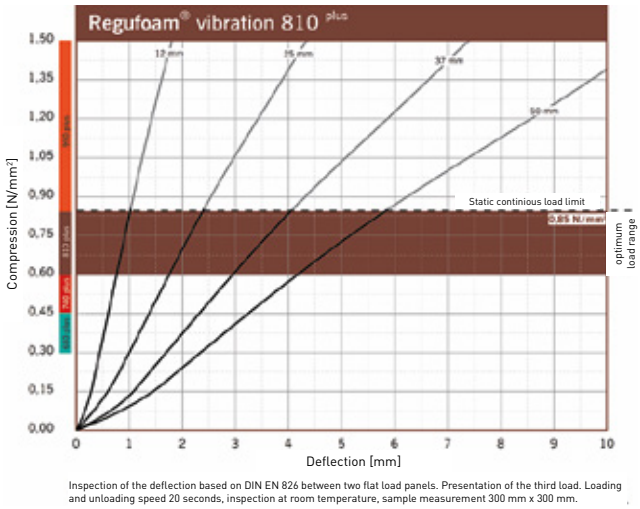
Regufoam 810 plus

Technical data		
Static modulus of elasticity	**in adherence to EN 826**	5,8 to 7,2 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	11,0 to 16,5 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	4,6 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	1.241 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

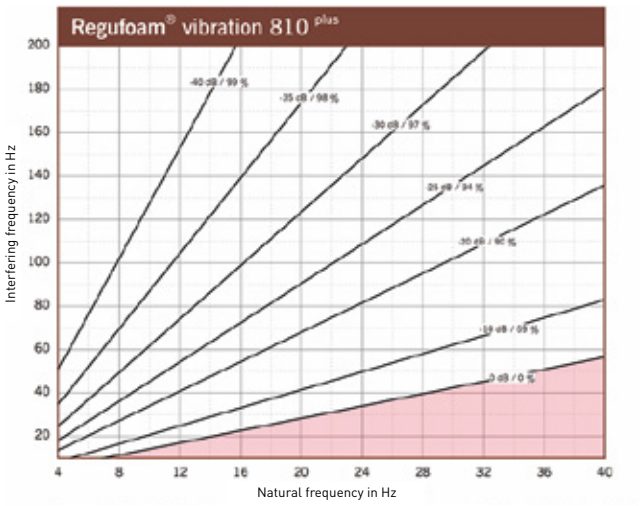
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000025762	S	12,5	1,5	303,50

DEFLECTION



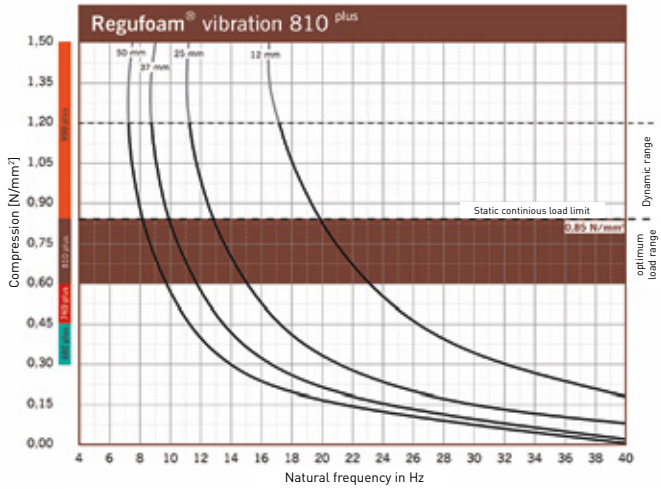
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



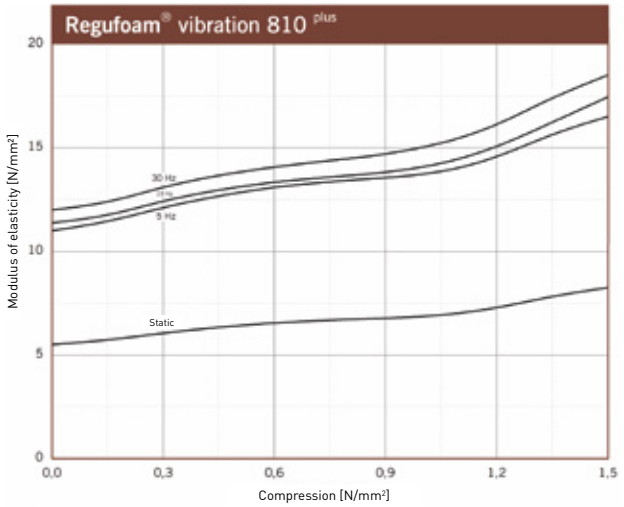
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 810 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 810 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

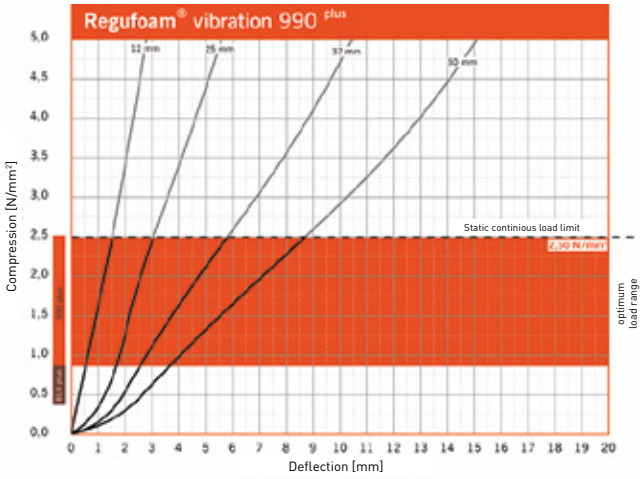
Regufoam 990 plus

Technical data		
Static modulus of elasticity	**in adherence to EN 826**	20,0 to 78,0 N/mm²
Dynamic modulus of elasticity	**in adherence to DIN 53513**	41,0 to 160,0 N/mm²
tensile strength	**in adherence to DIN EN ISO 1798**	6,9 N/mm²
Fire behaviour	**DIN 4102** **DIN EN 13501**	B2 E
Compression hardness	**in adherence to DIN EN ISO 3386-2**	3.640 kPa

Cut:
The required width (from 6 cm) is prefabricated according to specification.
The angularity of the strip edges tolerates ± 3 mm (with a panel thickness of 12.5 mm)

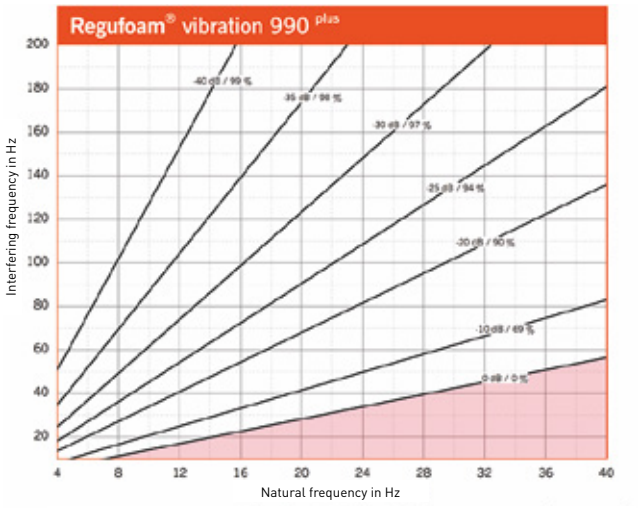
ITEM #	STORING (S)	THICKNESS [MM]	STRIP LENGTH [LFM]	€/M²
10000025763	L	12,5	1,5	371,60

DEFLECTION



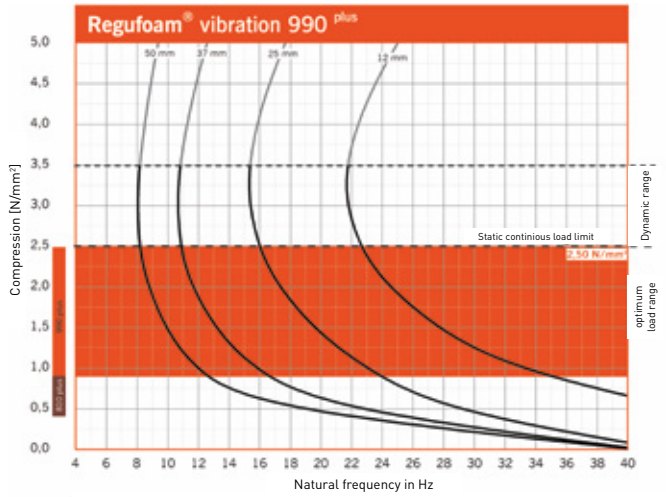
Inspection of the deflection based on DIN EN 826 between two flat load panels. Presentation of the third load. Loading and unloading speed 20 seconds, inspection at room temperature, sample measurement 300 mm x 300 mm.

VIBRATION ISOLATION



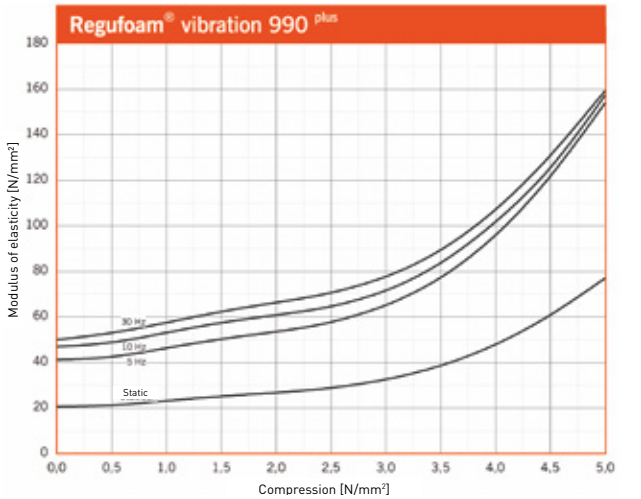
It shows the insulation effect for a spring-mass system on a rigid base, using **Regufoam® vibration 990 plus**.
Parameters: Force transmission in dB, degree of isolation in %.

NATURAL FREQUENCY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of **Regufoam® vibration 990 plus** on a rigid subsurface into account, sample measurement 300 x 300 mm.

MODULUS OF ELASTICITY



Natural frequency progressions for a one-dimensional spring-mass valve, taking the dynamic rigidity of Regufoam on a rigid Progression of the dynamic modulus of elasticity with sinusoidal excitation around a constant mean load, displacement amplitude + 0.25 mm. Static modulus of elasticity as a tangent modulus from the spring characteristic curve.

NOTE

You can find all the tables regarding this product via the QR code.

authorized retailer

THE ADVANTAGES ARE CLEAR:

- SAFETY THROUGH AN APPROVED SYSTEM
- MULTIFUNCTIONAL IN STRENGTH AND USE
- STANDARDIZED AND SIMPLE EVALUATION
- A HIGH DEGREE OF PRE-FABRICATION
- QUICK ASSEMBLY

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