on your wavelength

Regufoam®

Vibration Isolation Technical Details

Regufoam in:
Railway Station Sternschanze Hamburg, Wisselord Studios Hilversum, Machine Foundations

BSW

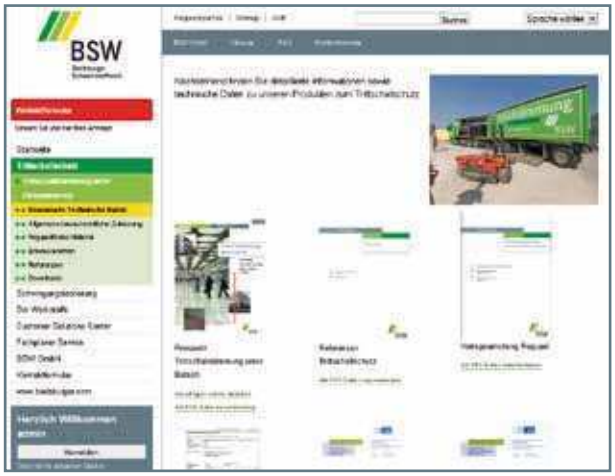
www.bsw-vibration-technology.com

All Tools for the Download

You will find all documents and information which you need for making a decision, for calculation as well as the installation and application of the BSW vibration technology products, at **www.bsw-vibration-technology.com**. In a matter of seconds you can download technical datasheets, certificates and installation instructions, all in the required file formats.

Up to date information is provided on our website and in the PDF versions of this catalogue. The PDF versions are available for download on our website.

The website **www.bsw-vibration-technology.com** serves mainly as a planning basis for architectural acoustics and construction engineers. You must register to use the technical documents. BSW will send you your user name and password right away. Since being put up in January 2010, this website already has several hundred registered users.



Contact: Steffen Blecher, Phone: +49 2751 803-126 • s.blecher@berleburger.de;
Florian Sassmannshausen, Phone: +49 2751 803-230 • f.sassmannshausen@berleburger.de •
Downloads at www.bsw-vibration-technology.com

Regufoam® vibration 150 plus

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

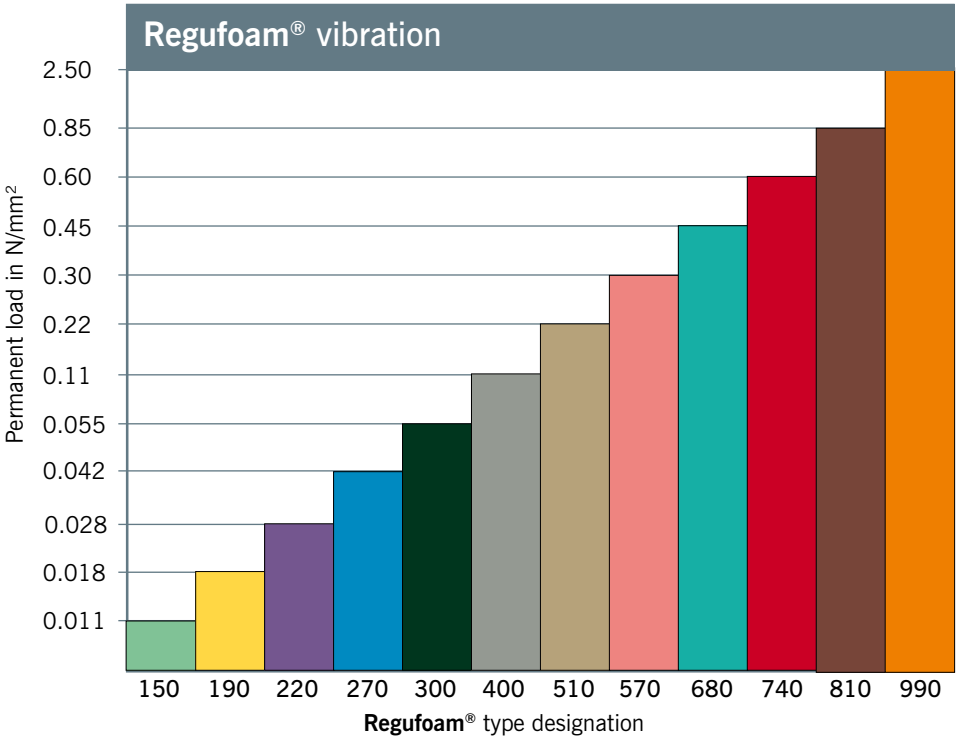
Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.011 N/mm²
Continuous and variable loads/operating load range
0 to 0.016 N/mm²
Peak loads (rare, short-term loads)
0.5 N/mm²

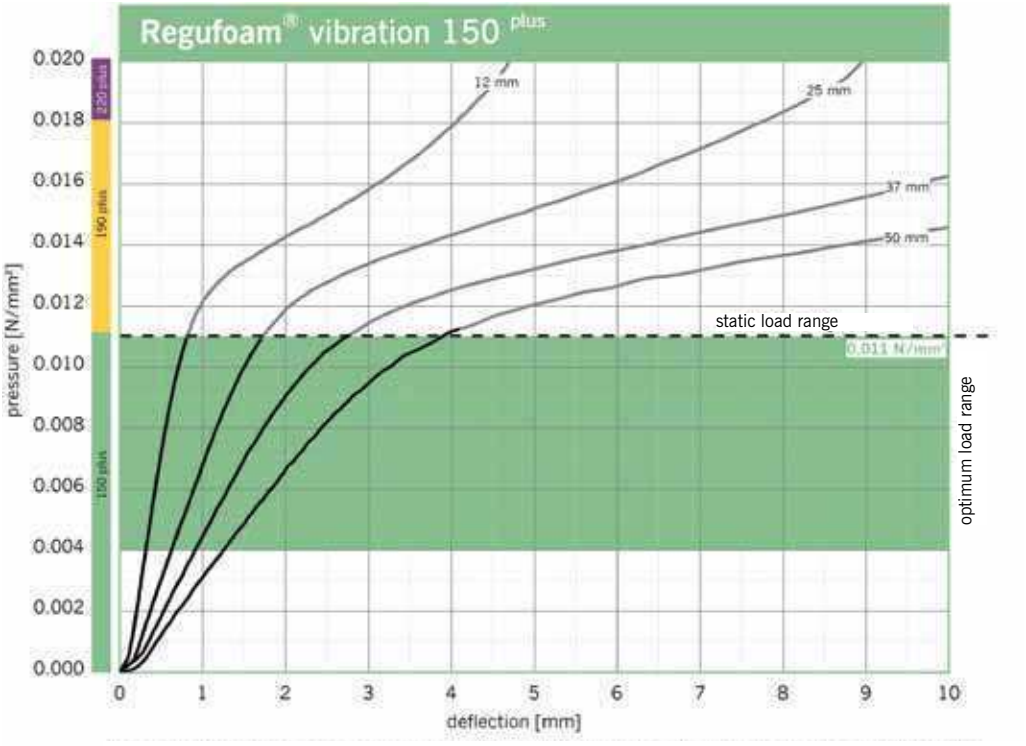
Static modulus of elasticity	Based on EN 826	0.06 - 0.16	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.15 - 0.38	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.28	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	1.6	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.31	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	220	%	
Tear resistance	Based on DIN ISO 34-1	1.2	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	14	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	34	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	49	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

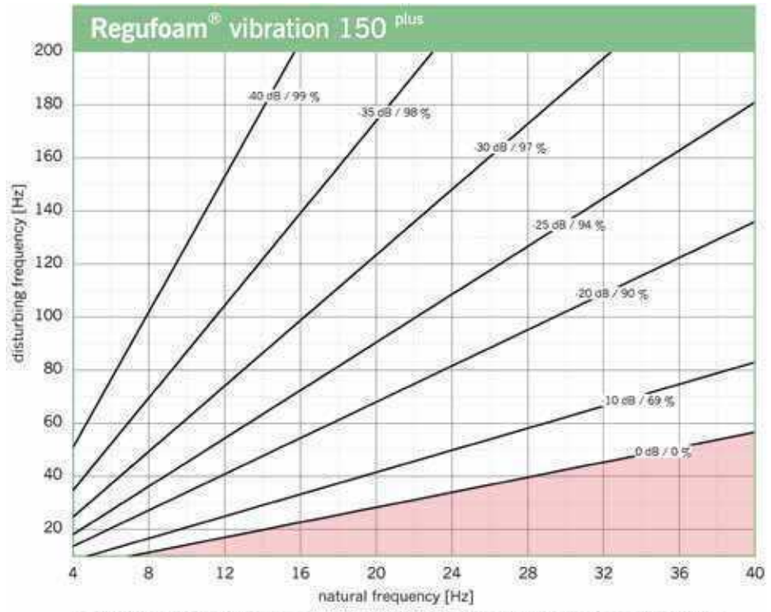
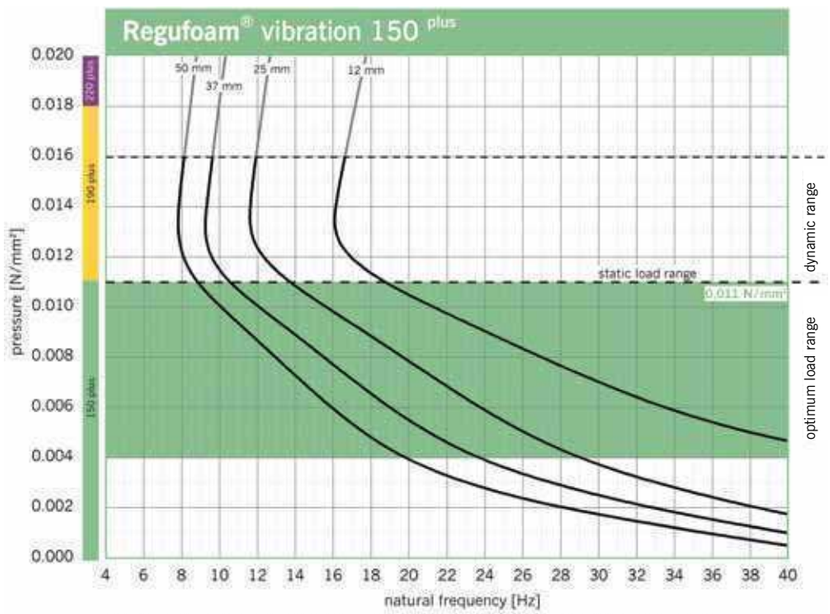


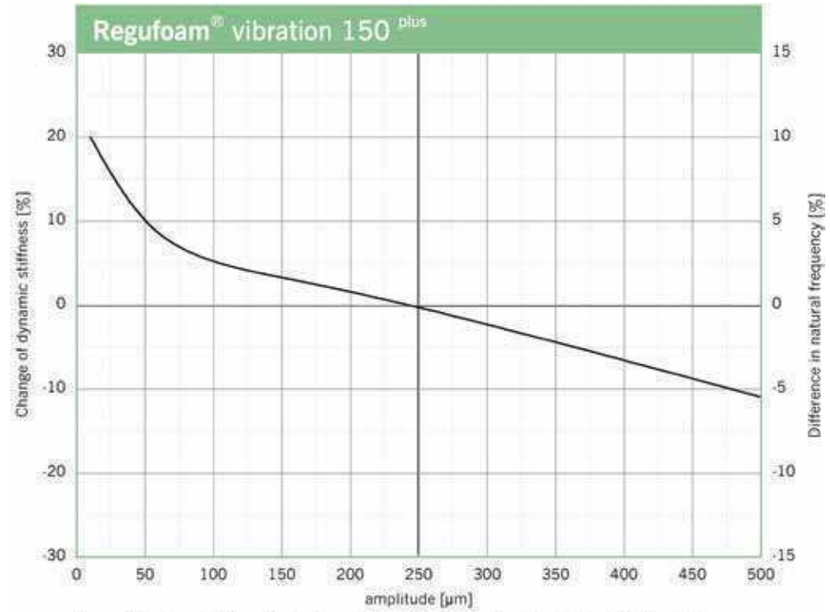
Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 150 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Natural Frequency

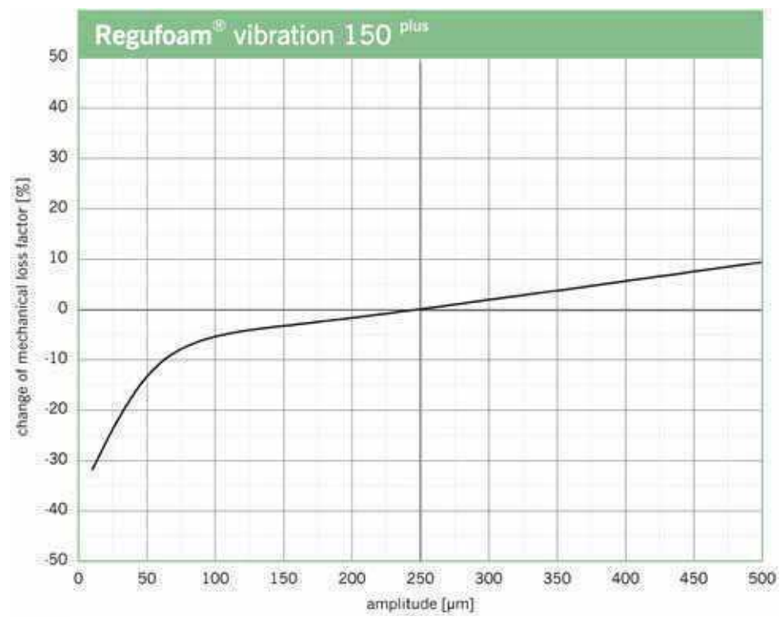


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 150 plus** on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.011 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.011 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

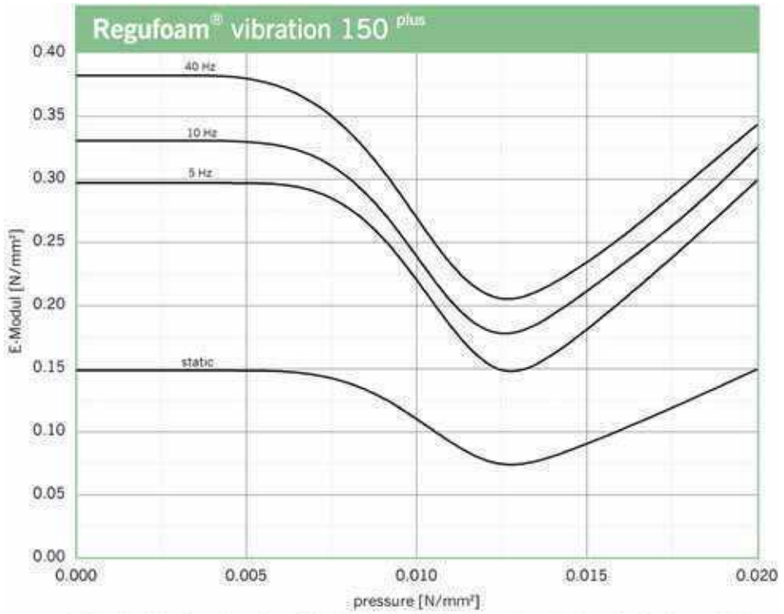


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

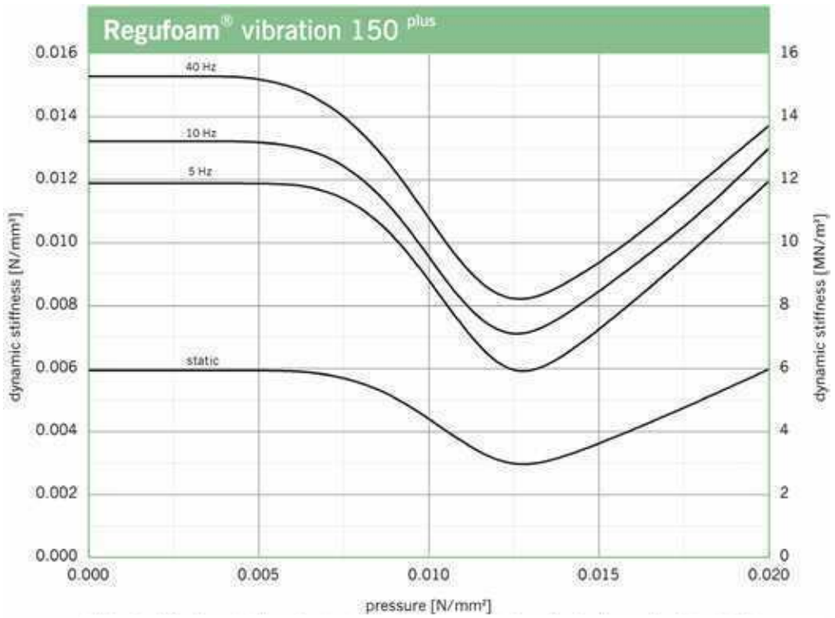
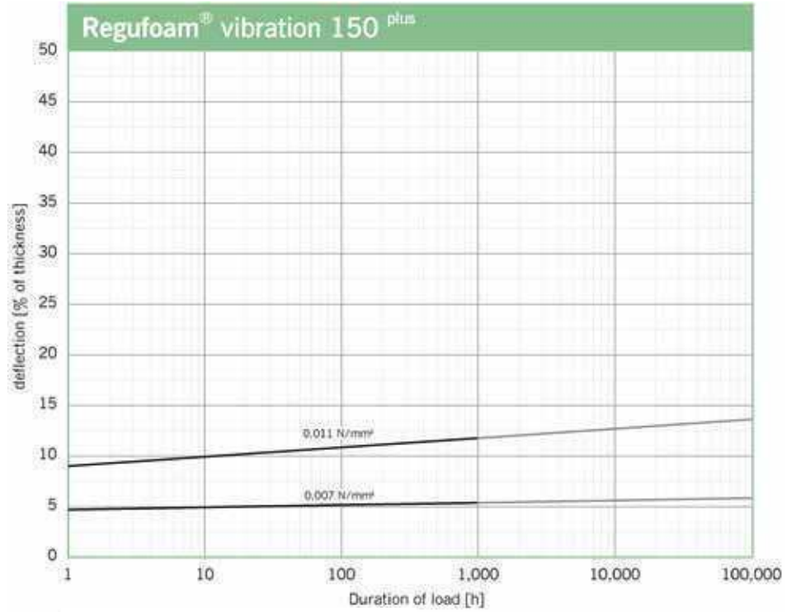


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 150 plus 2.1

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

Exclusion of Liability

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BSW

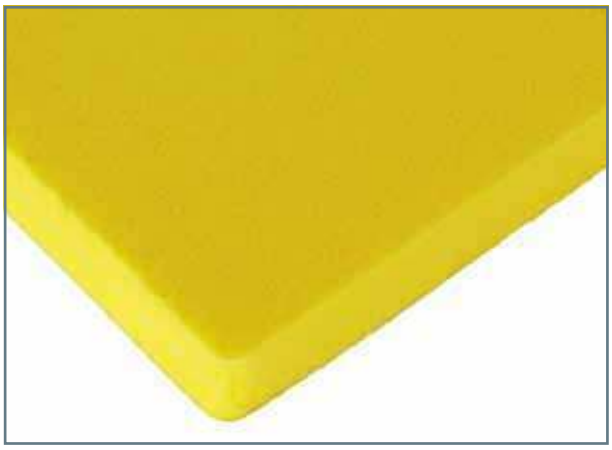
Regufoam® vibration 190 plus

2.2

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

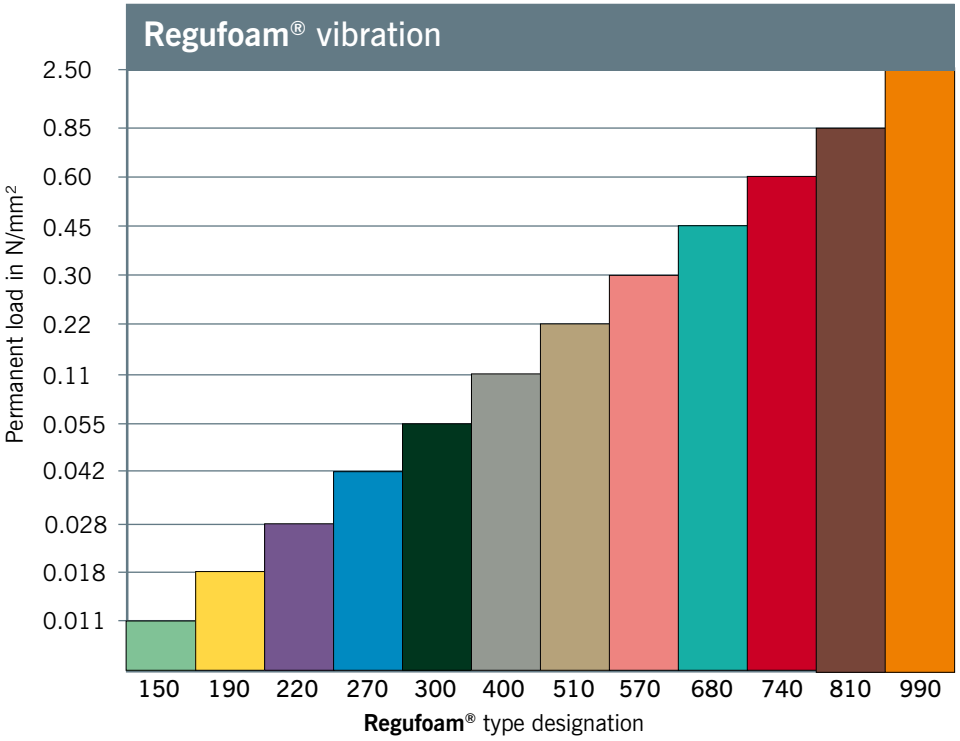
Continuous static load
0.018 N/mm²
Continuous and variable loads/operating load range
0 to 0.028 N/mm²
Peak loads (rare, short-term loads)
0.8 N/mm²



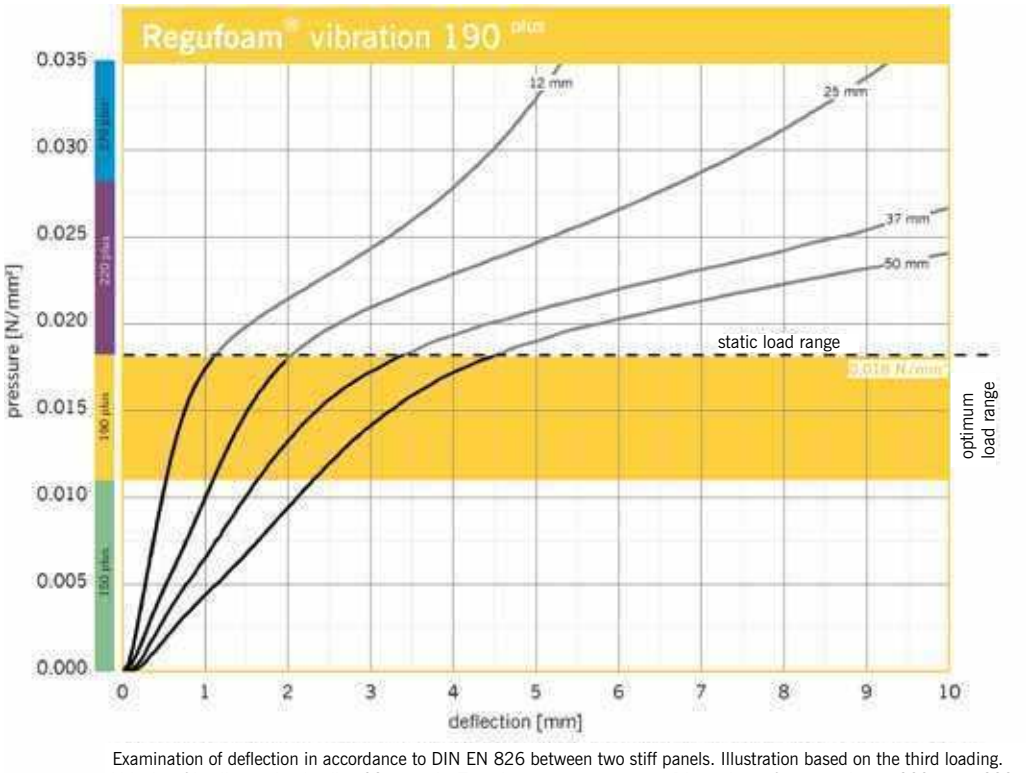
Static modulus of elasticity	Based on EN 826	0.1 - 0.25	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.25 - 0.55	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.25	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	2.0	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.4	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	220	%	
Tear resistance	Based on DIN ISO 34-1	2.0	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	22	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	35	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	61	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

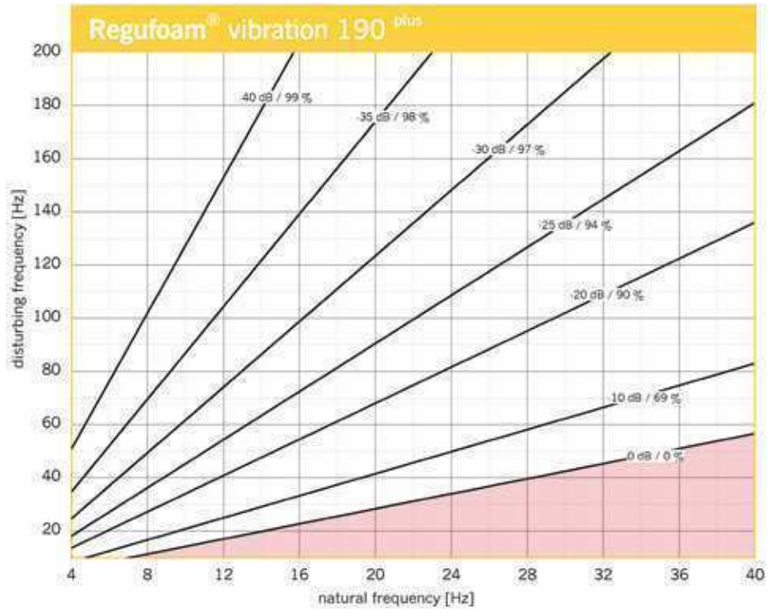
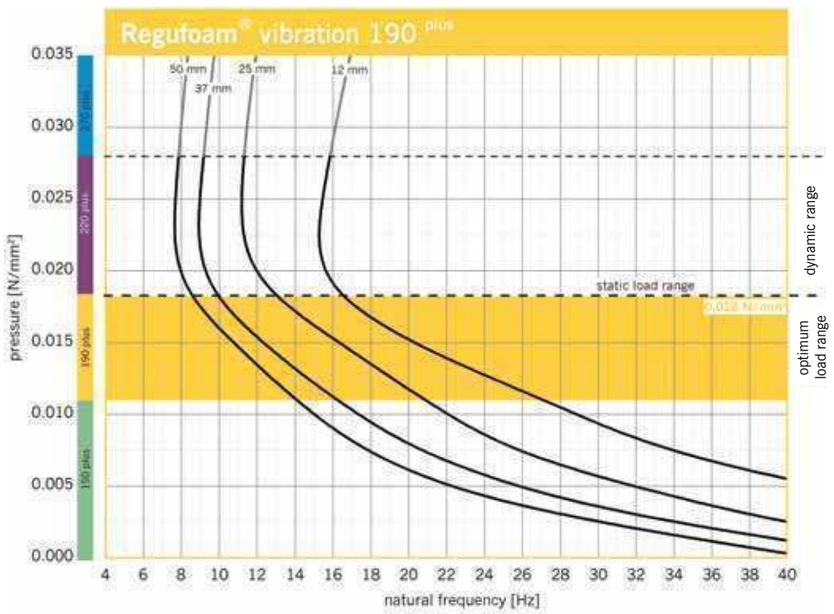


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 190** plus. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

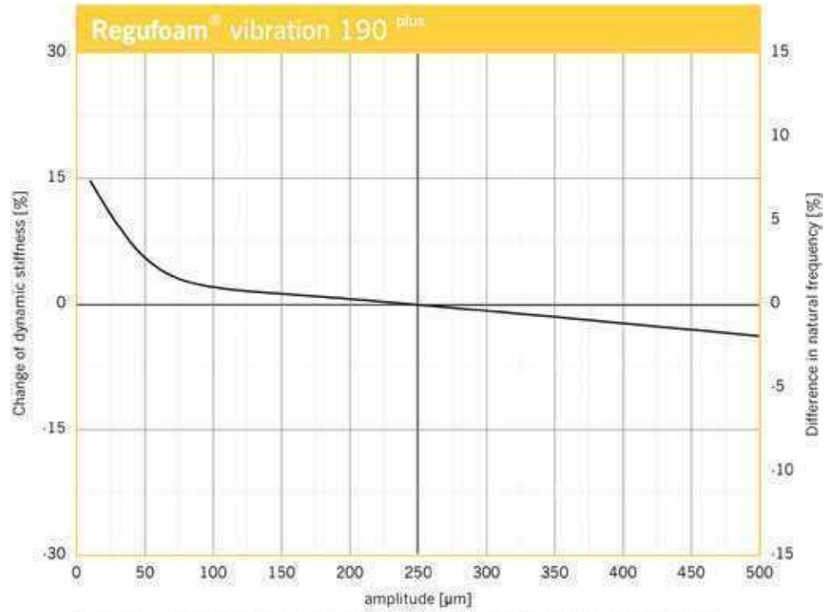
Natural Frequency



Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 190** plus on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Regufoam® vibration 190 plus 2.2

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.018 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.

Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.018 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

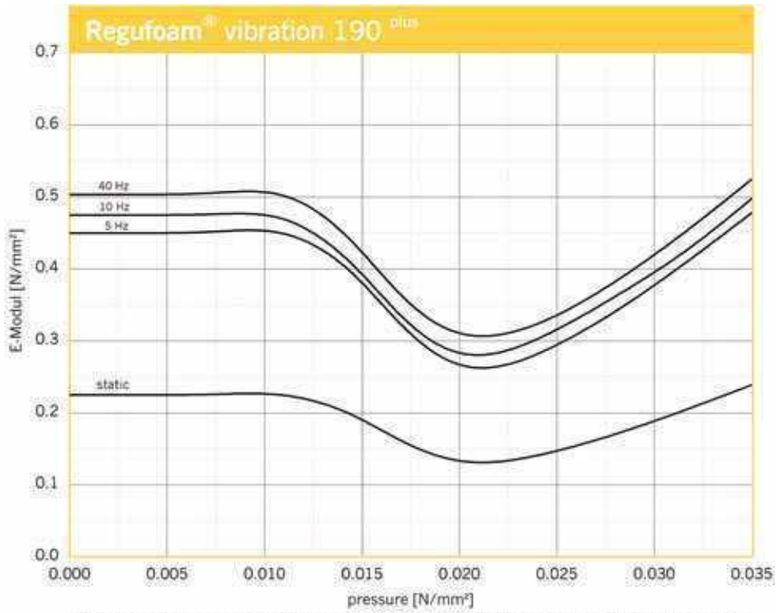


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

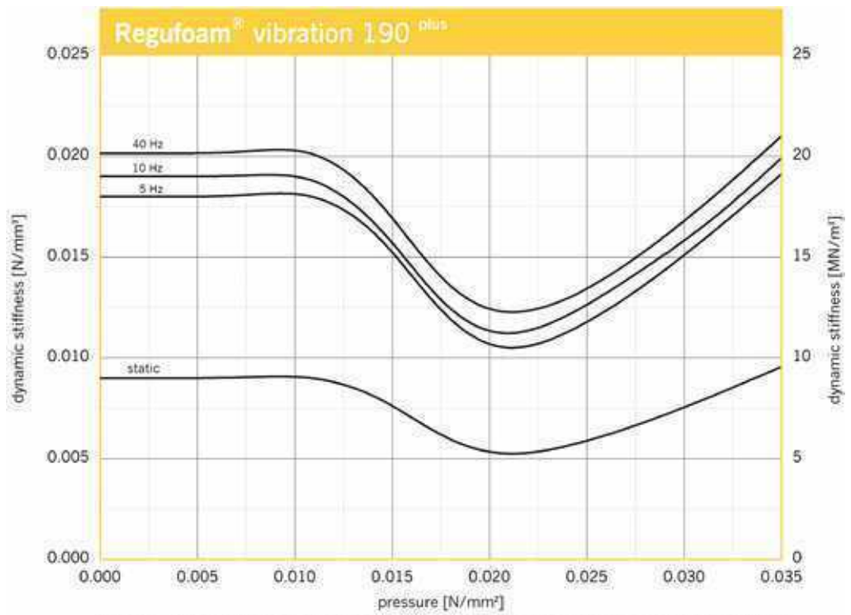
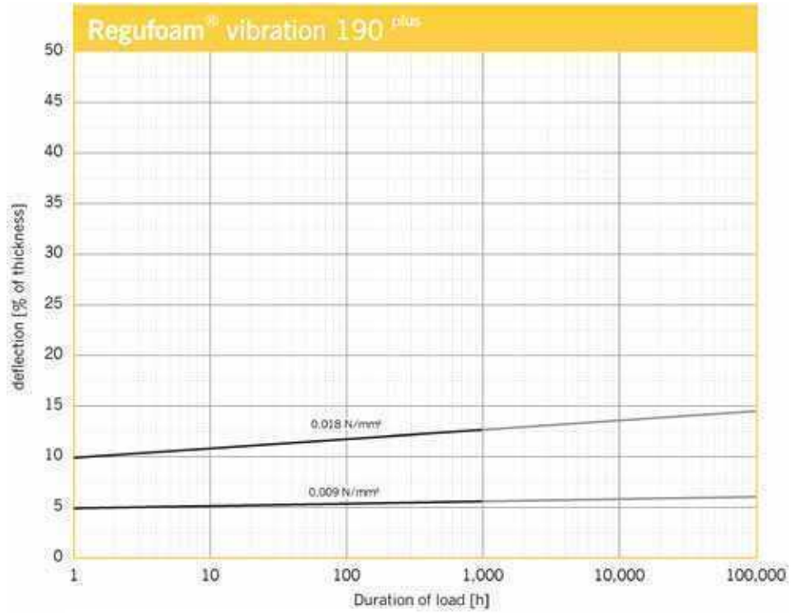


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 190 plus 2.2

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

Exclusion of Liability

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BSW

Regufoam® vibration 220 plus

2.3

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

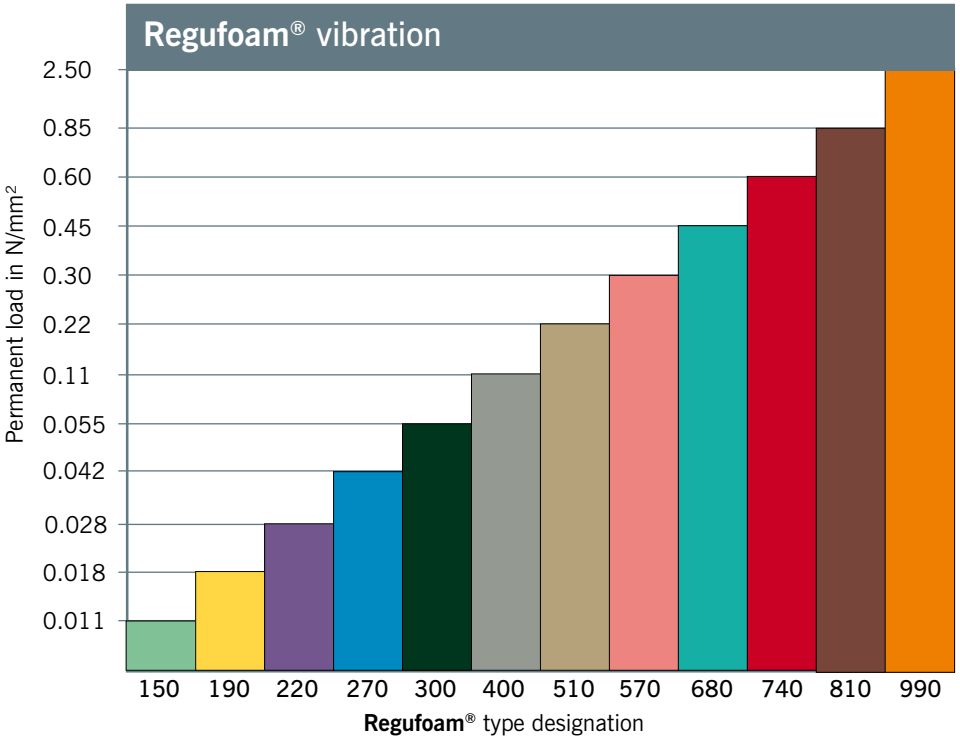
Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.028 N/mm²
Continuous and variable loads/operating load range
0 to 0.04 N/mm²
Peak loads (rare, short-term loads)
0.9 N/mm²

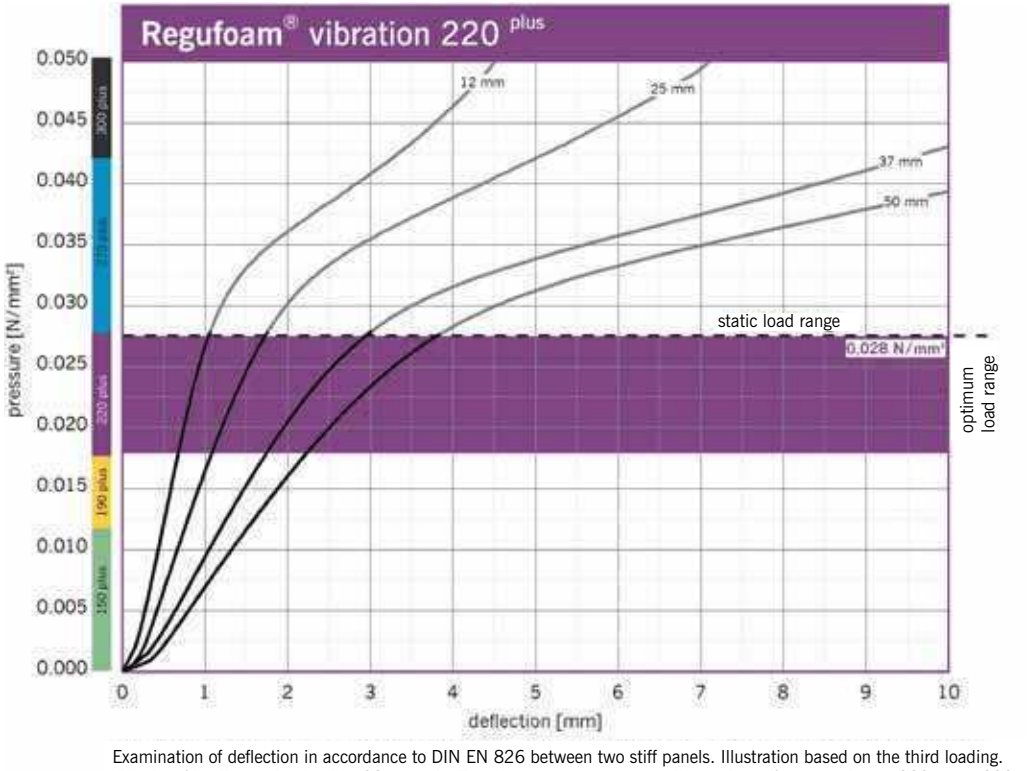
Static modulus of elasticity	Based on EN 826	0.15 - 0.35	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.35 - 0.75	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.22	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	2.3	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.5	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	180	%	
Tear resistance	Based on DIN ISO 34-1	2.1	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	39	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	47	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	69	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

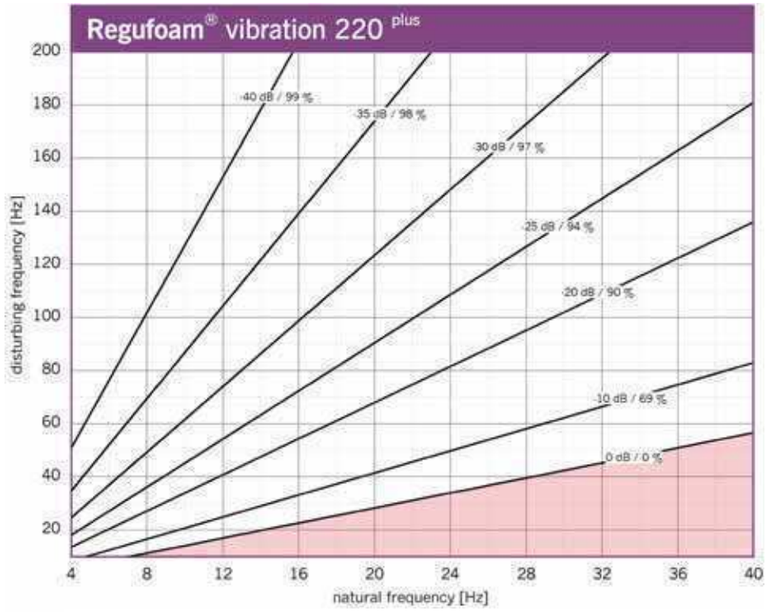
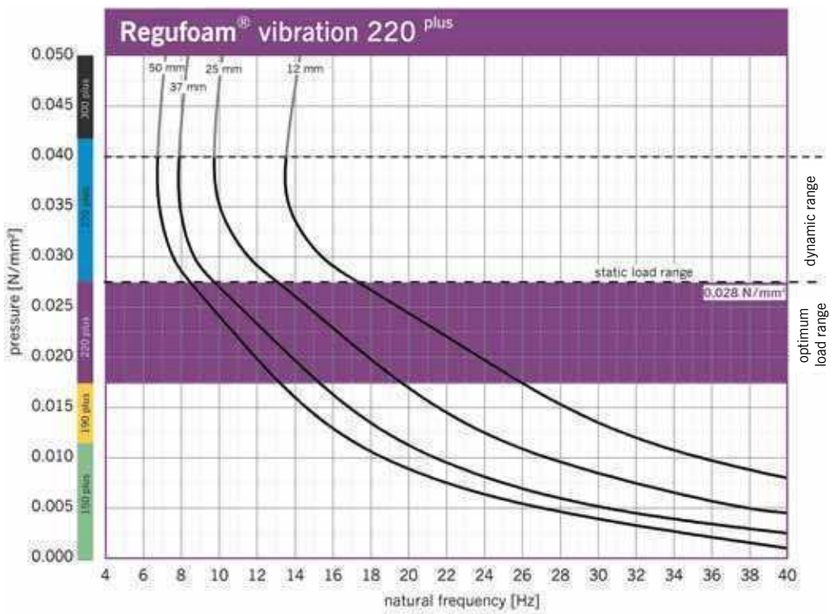


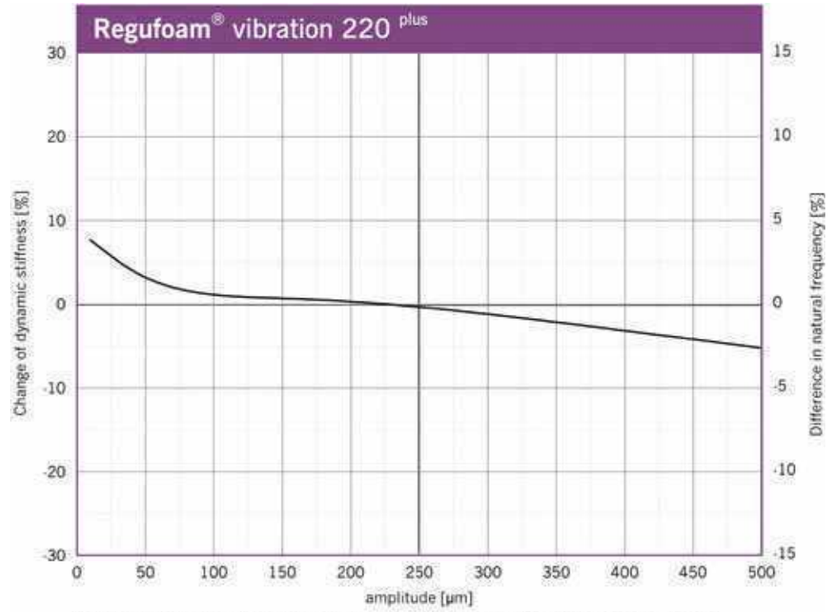
Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 220 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Natural Frequency

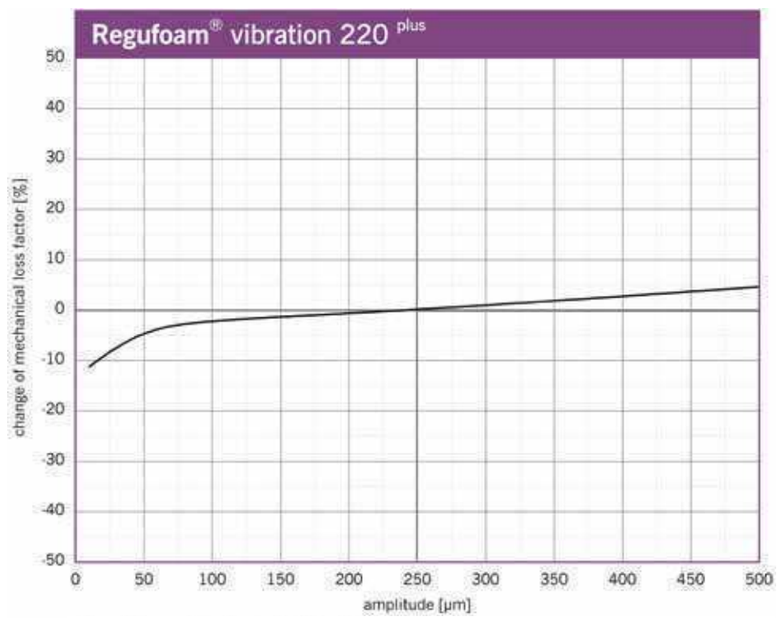


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 220 plus** on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.028 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.028 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

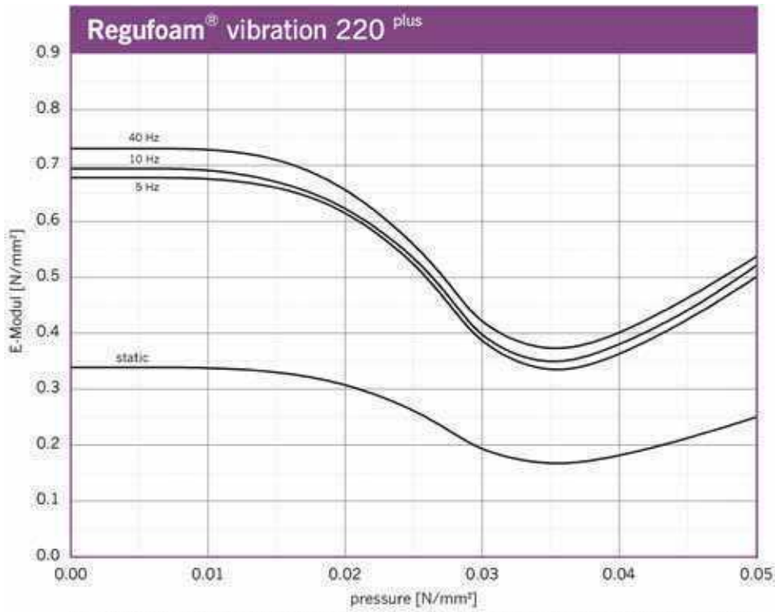


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

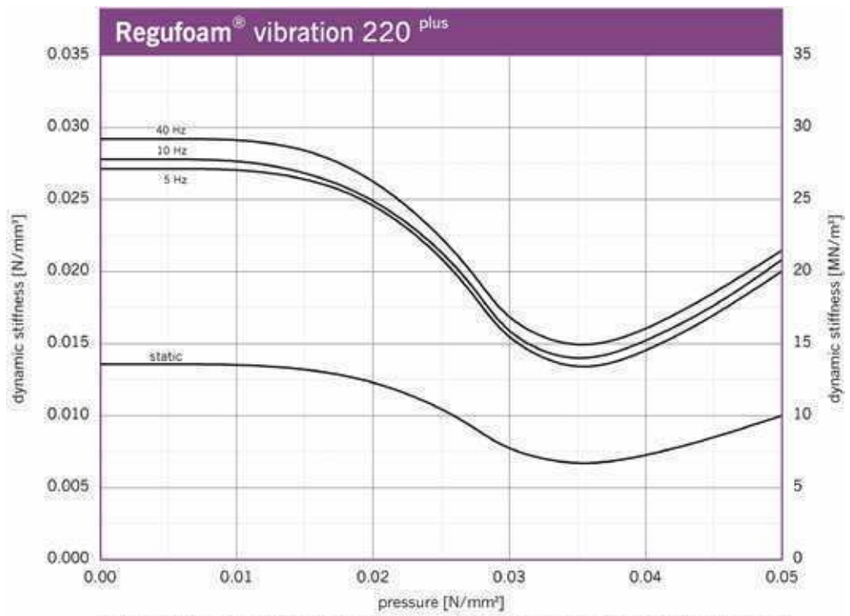
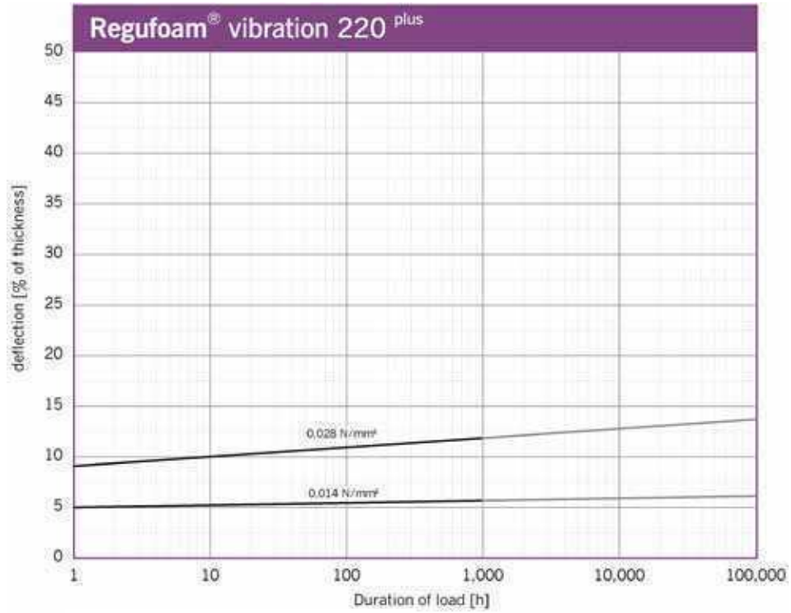


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 220 plus 2.3

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

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BSW

Regufoam® vibration 270 plus

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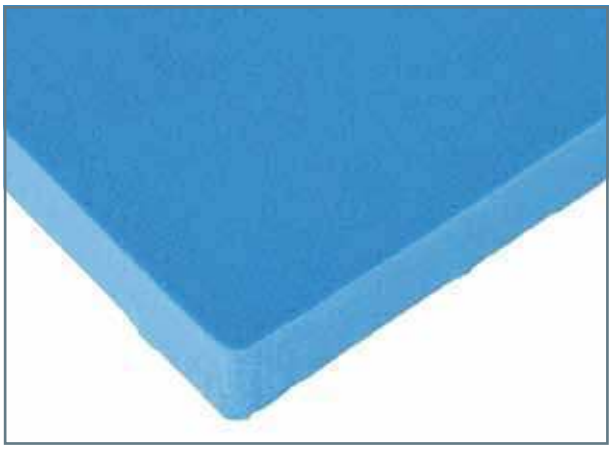
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

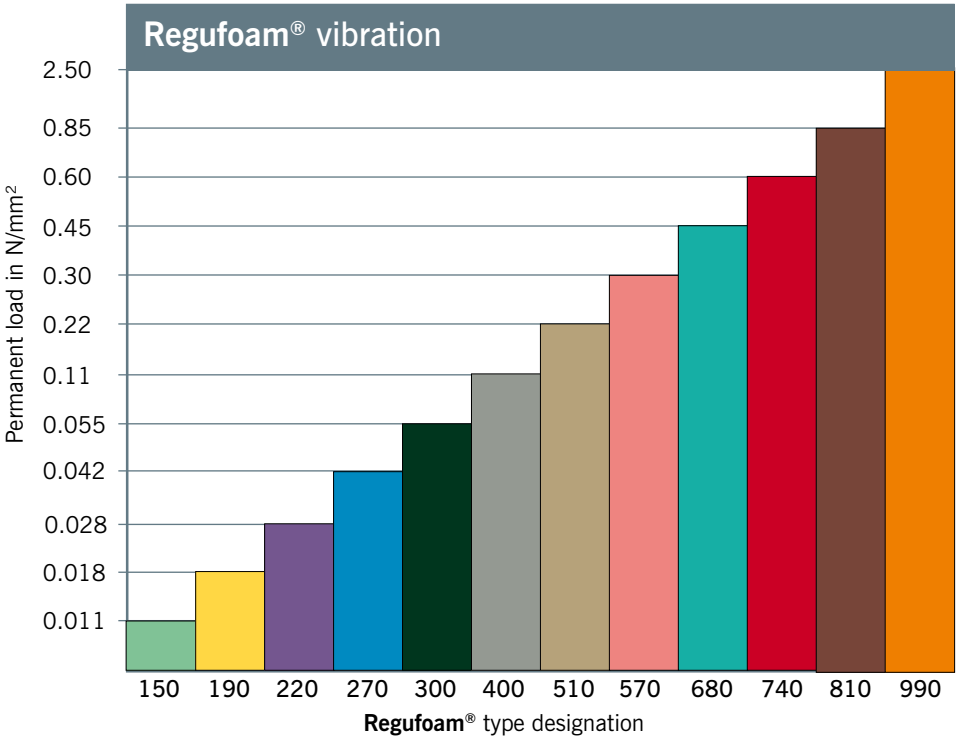
Continuous static load
0.042 N/mm²
Continuous and variable loads/operating load range
0 to 0.062 N/mm²
Peak loads (rare, short-term loads)
1.2 N/mm²



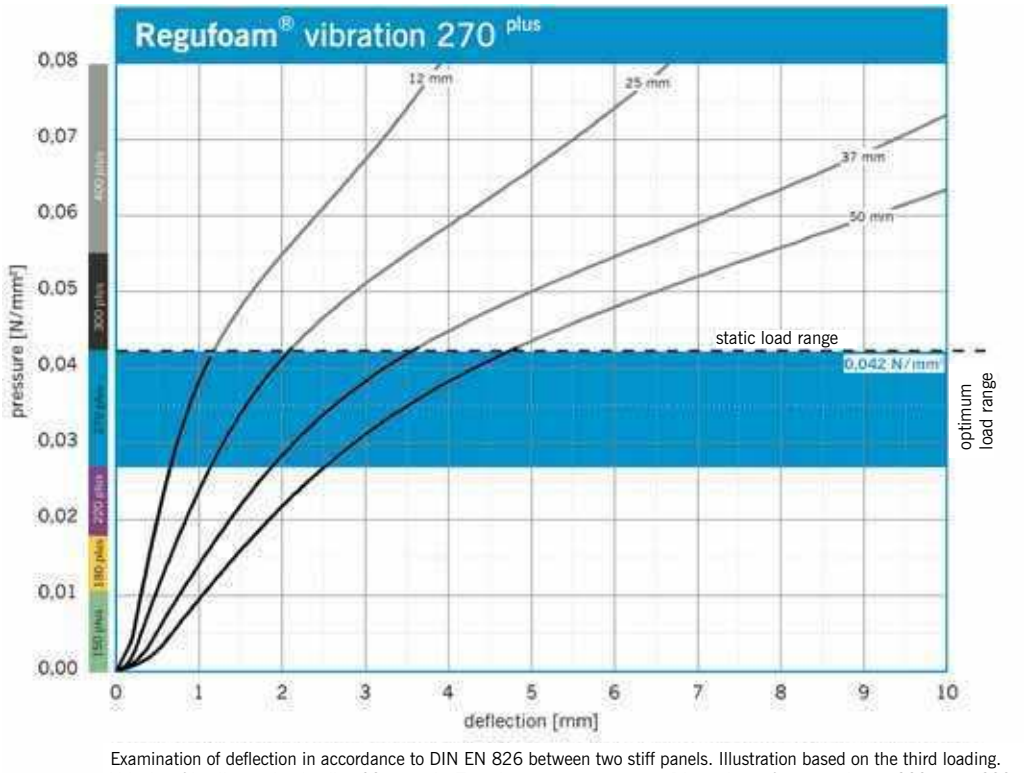
Static modulus of elasticity	Based on EN 826	0.25 - 0.45	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.60 - 1.05	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.2	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	3.2	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.9	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	210	%	
Tear resistance	Based on DIN ISO 34-1	4.5	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	63	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	38	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	70	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

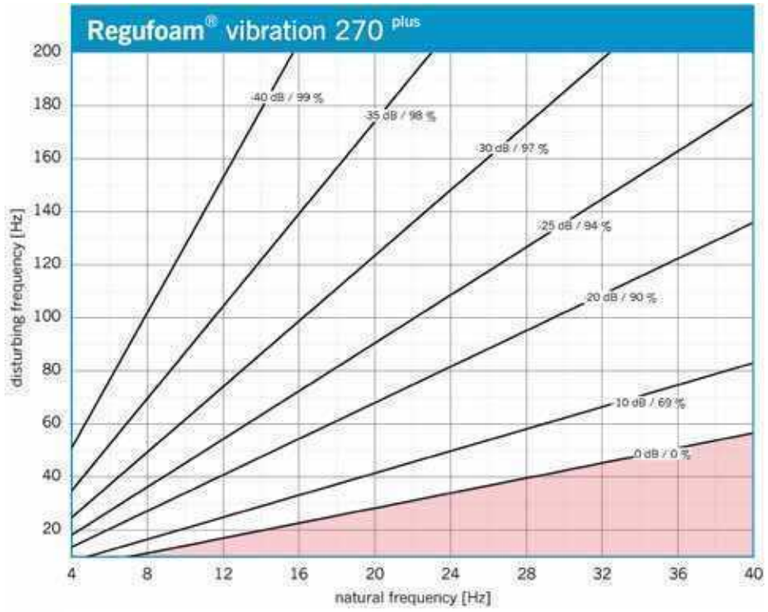
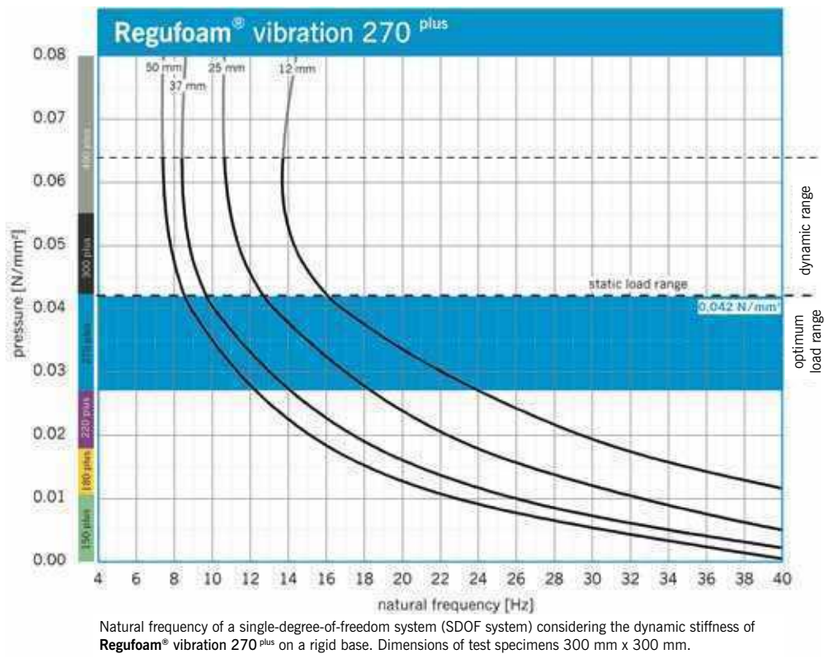


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 270** plus. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

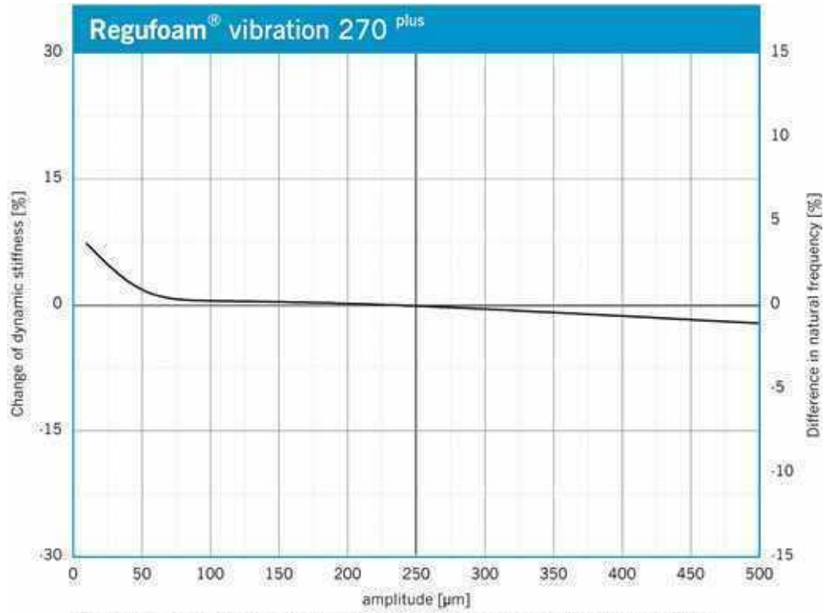
Natural Frequency



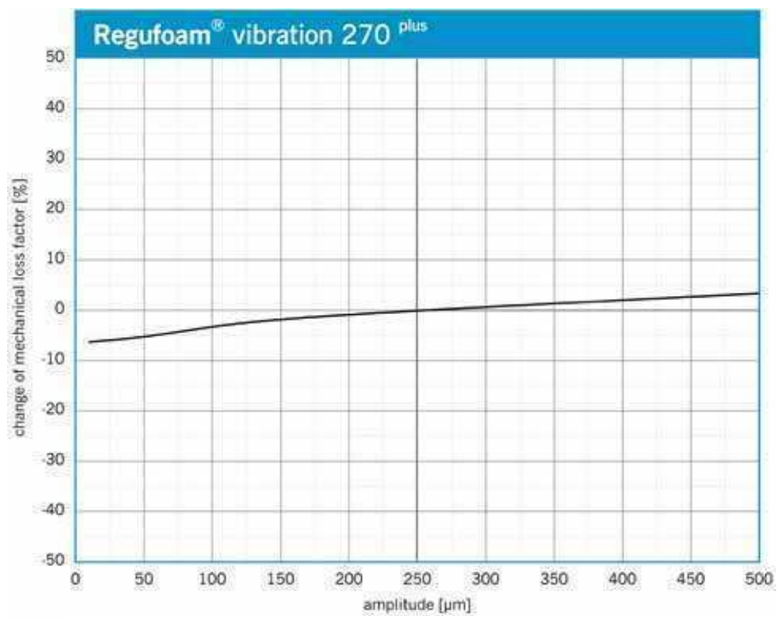
Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 270** plus on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Regufoam® vibration 270 plus 2.4

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.042 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.042 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

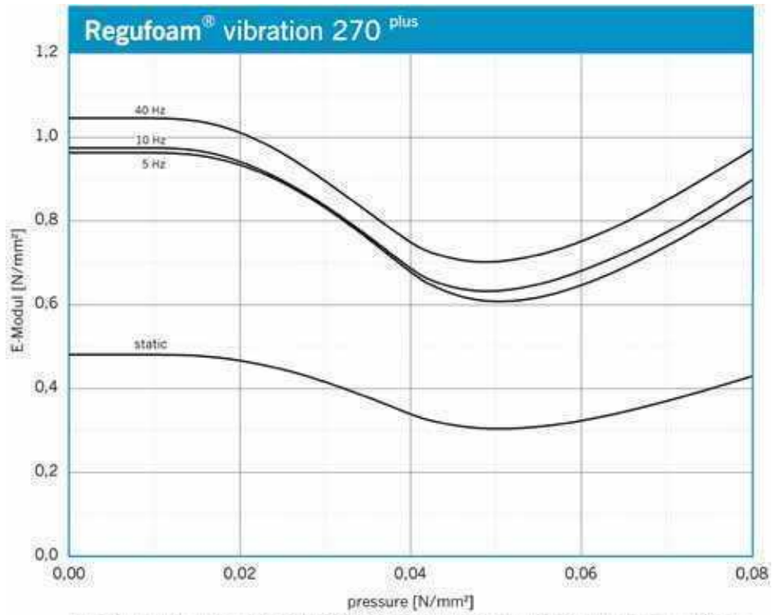


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

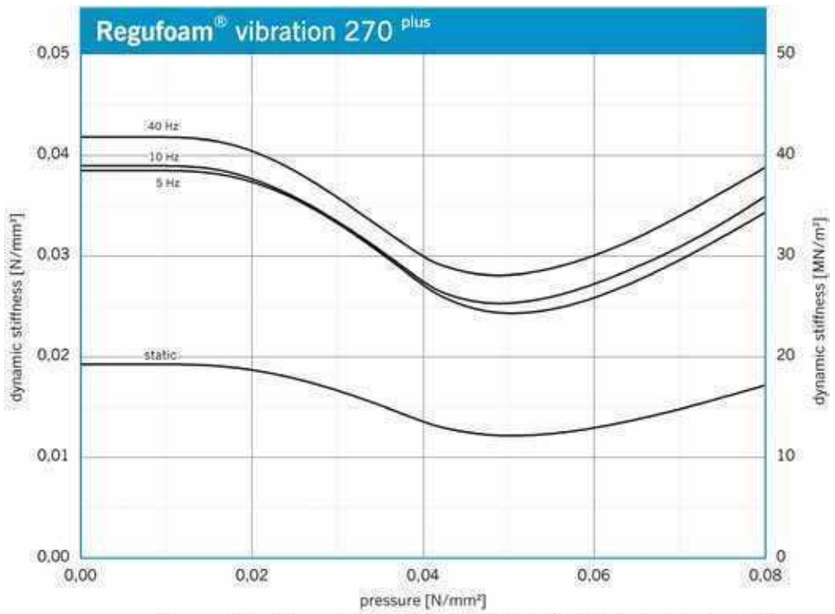
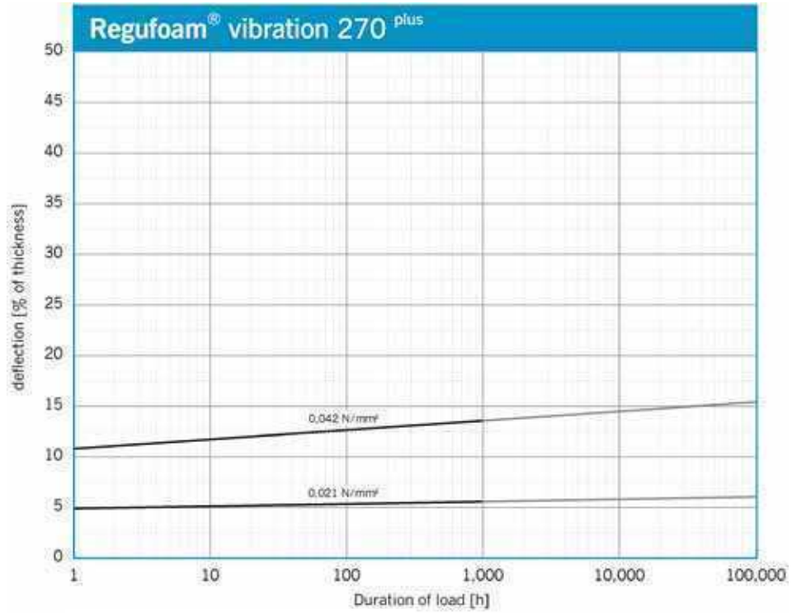


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 270 plus 2.4

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

Exclusion of Liability

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Downloads at www.bsw-vibration-technology.com

BSW

Regufoam® vibration 300 plus

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

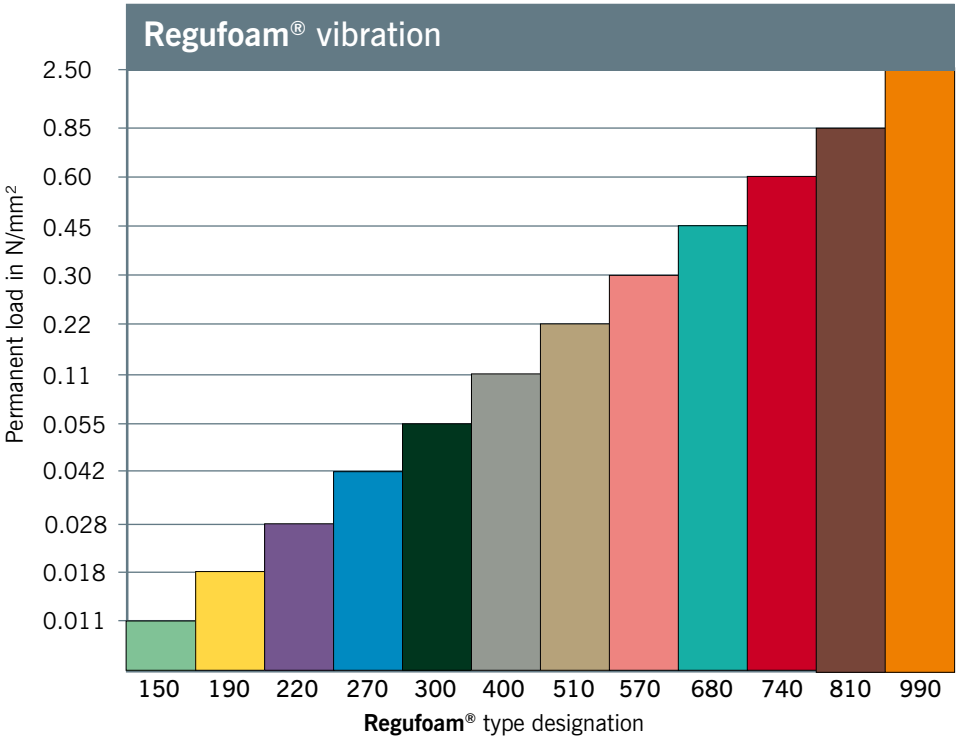
Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.055 N/mm²
Continuous and variable loads/operating load range
0 to 0.08 N/mm²
Peak loads (rare, short-term loads)
2 N/mm²

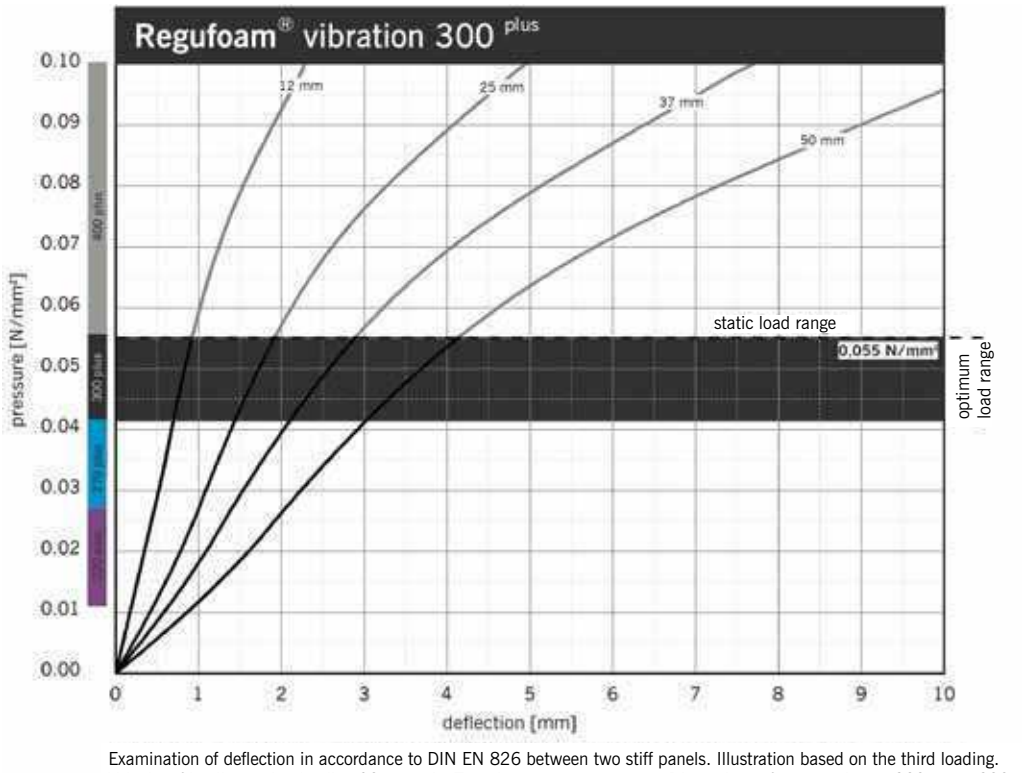
Static modulus of elasticity	Based on EN 826	0.35 - 0.58	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.68 - 1.25	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.18	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	3.4	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	1.2	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	240	%	
Tear resistance	Based on DIN ISO 34-1	4.8	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.75	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	82	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	44	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	72	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

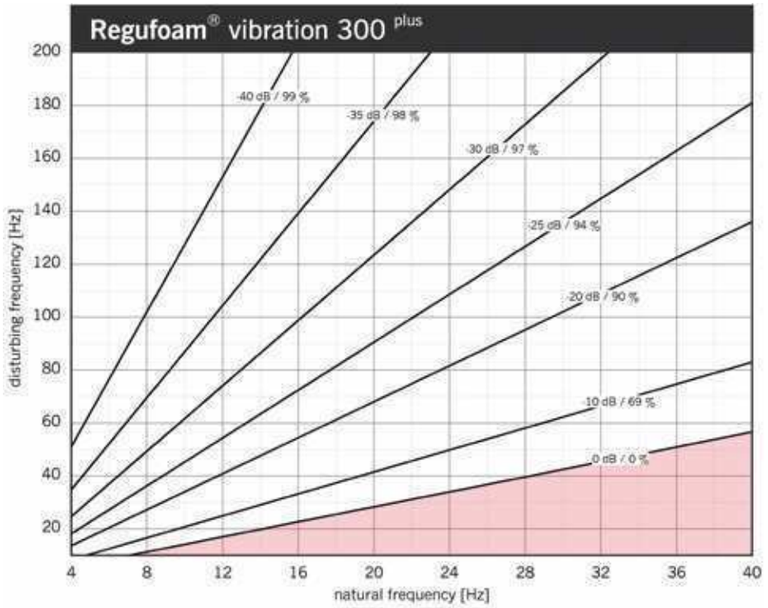
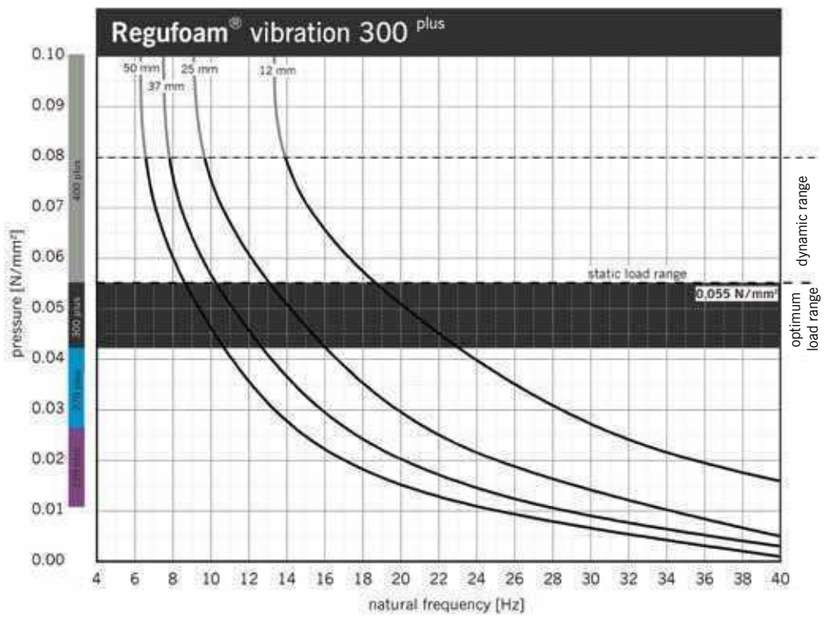


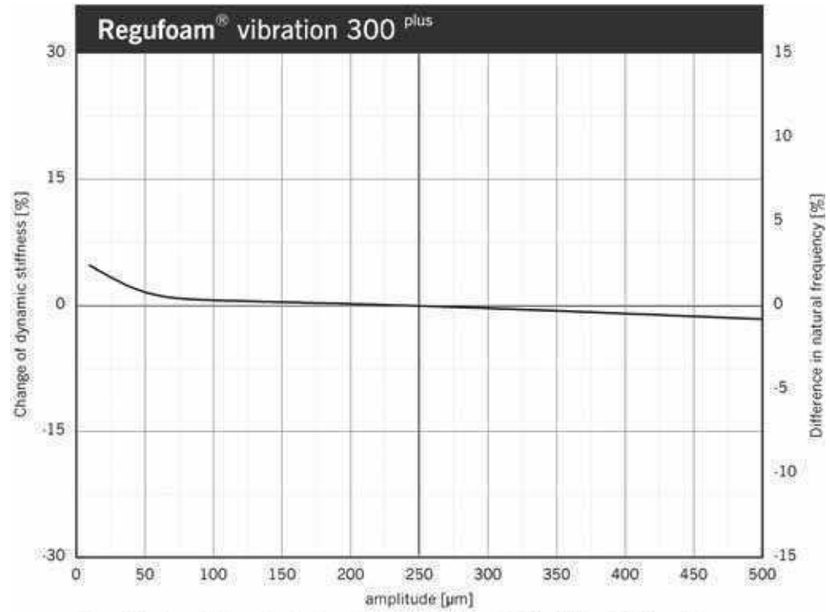
Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 300 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Natural Frequency

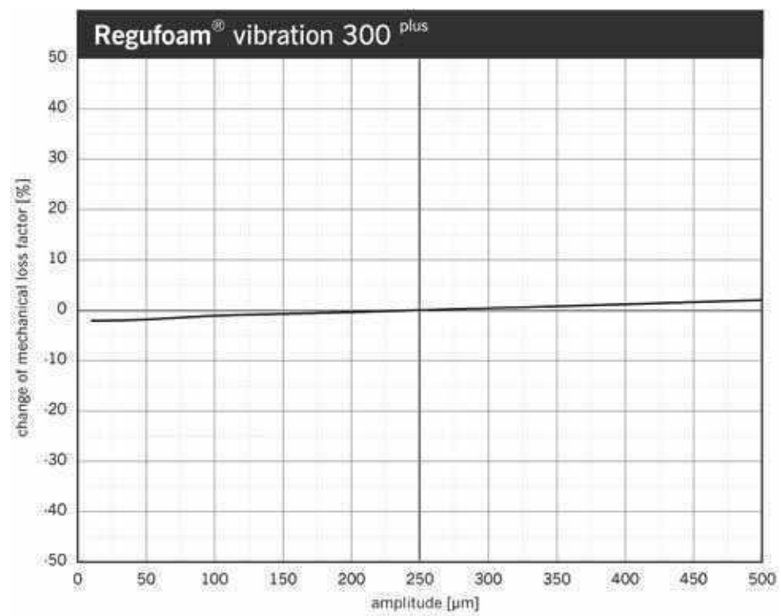


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 300 plus** on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.055 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.055 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

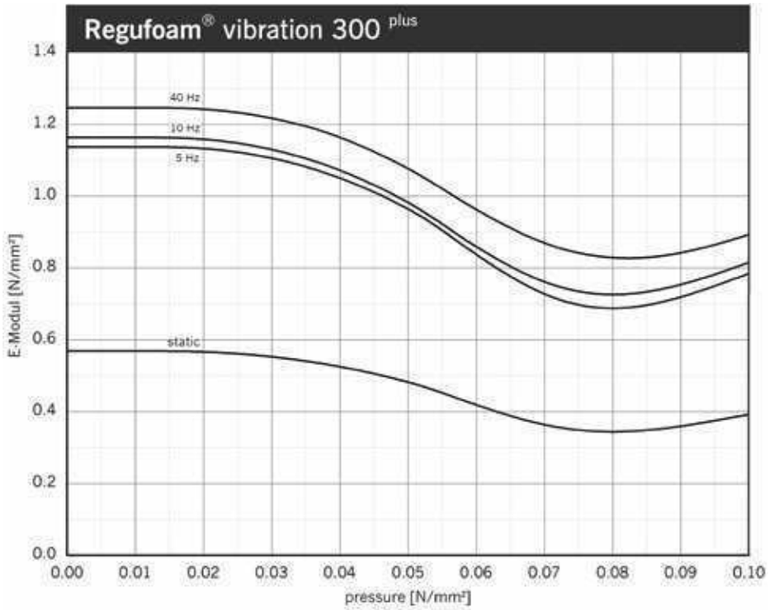


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

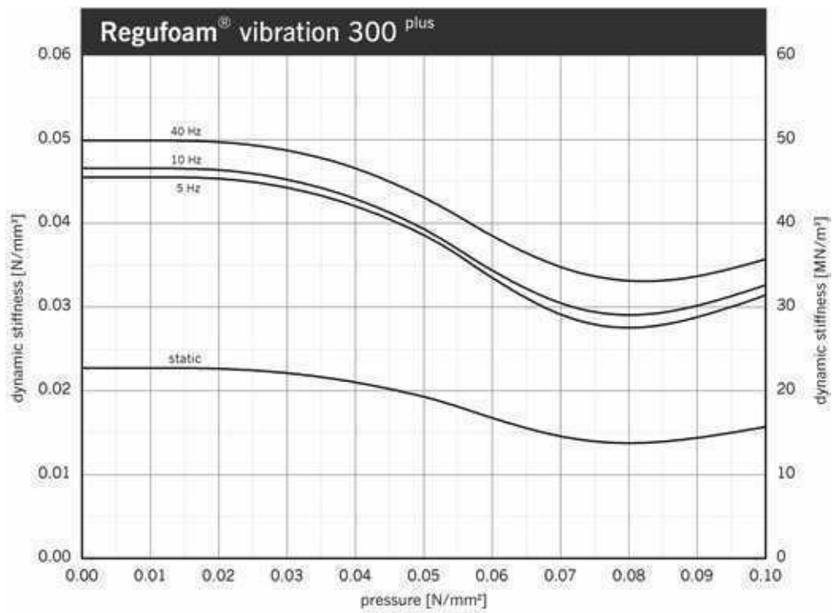
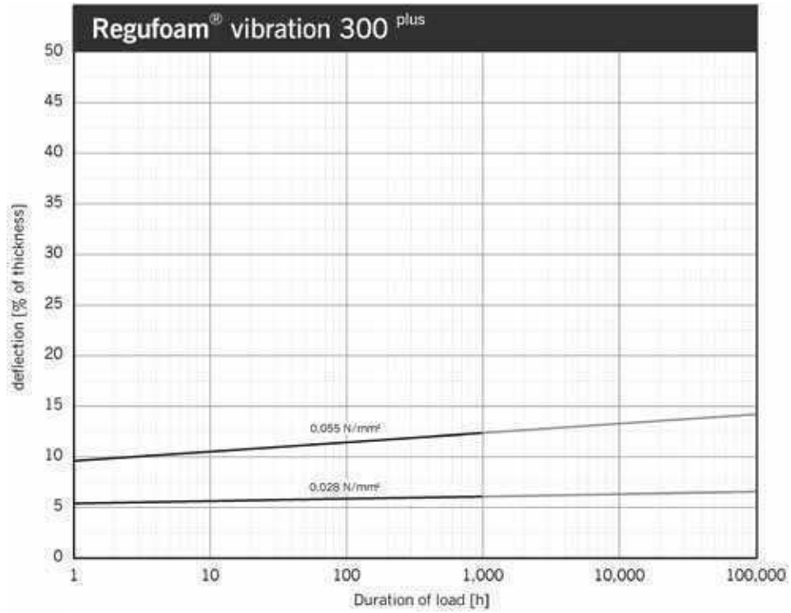


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 300 plus 2.5

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

Exclusion of Liability

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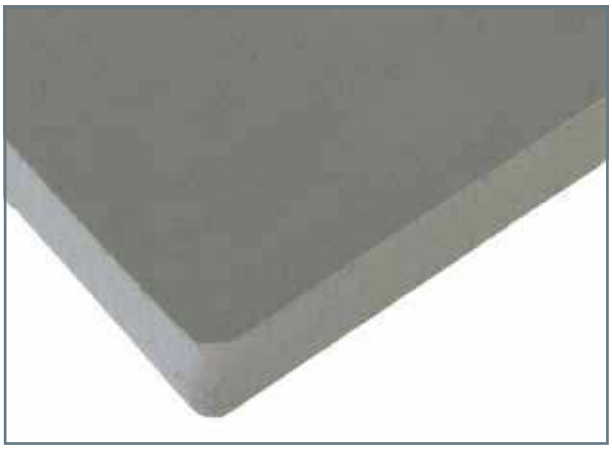
BSW

Regufoam® vibration 400 plus

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

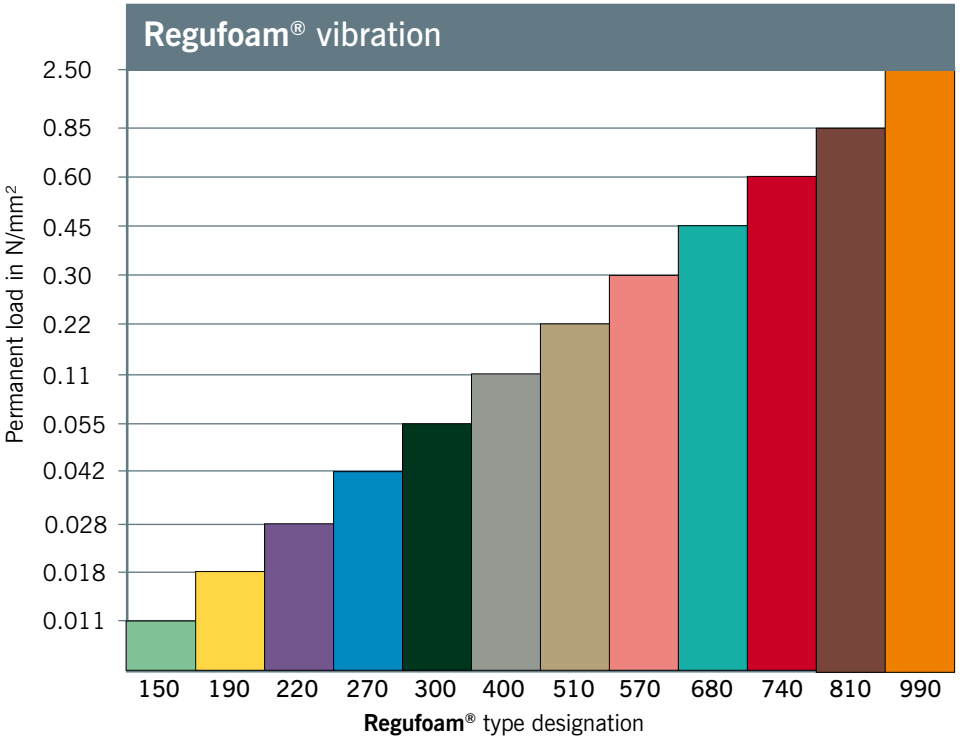
Continuous static load
0.11 N/mm²
Continuous and variable loads/operating load range
0 to 0.16 N/mm²
Peak loads (rare, short-term loads)
up to 3 N/mm²



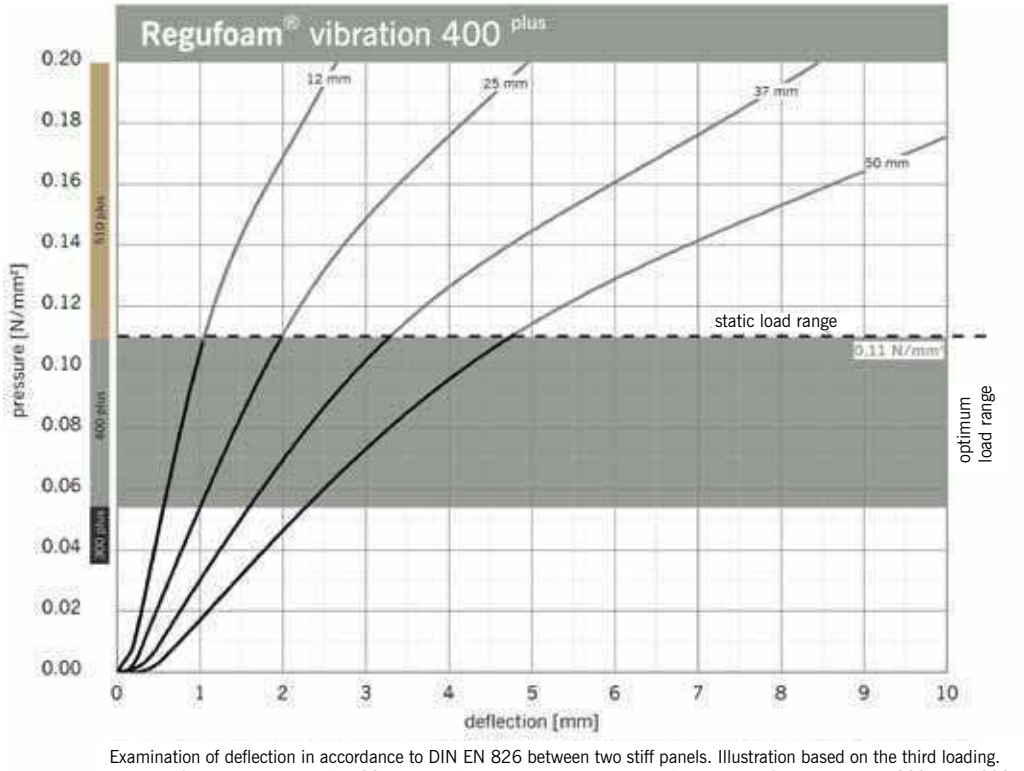
Static modulus of elasticity	Based on EN 826	0.6 - 1.0	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	1.2 - 2.0	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.17	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	3.9	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	1.5	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	220	%	
Tear resistance	Based on DIN ISO 34-1	6.0	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	170	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	57	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	68	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50 — 990plus
0.85 — 810plus
0.60 — 740plus
0.45 — 680plus
0.30 — 570plus
0.22 — 510plus
0.11 — 400plus
0.055 — 300plus
0.042 — 270plus
0.028 — 220plus
0.018 — 190plus
0.011 — 150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

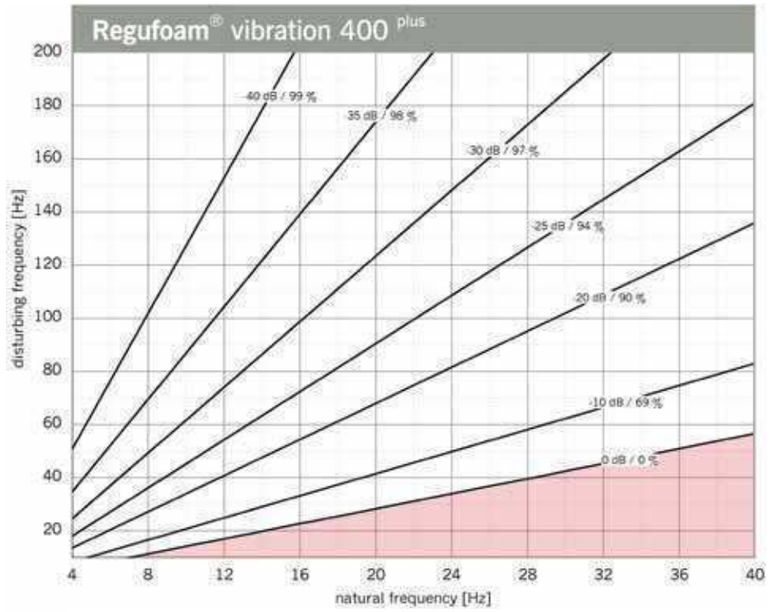
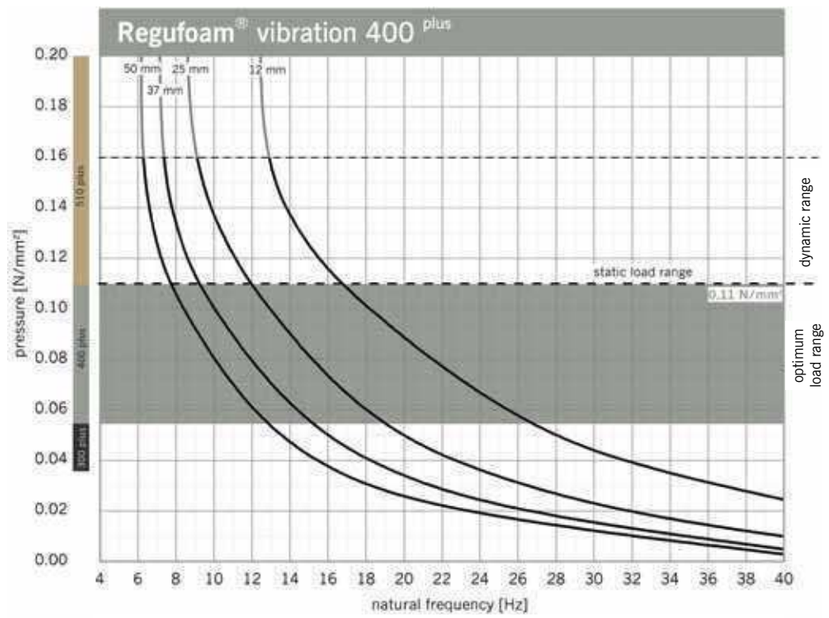
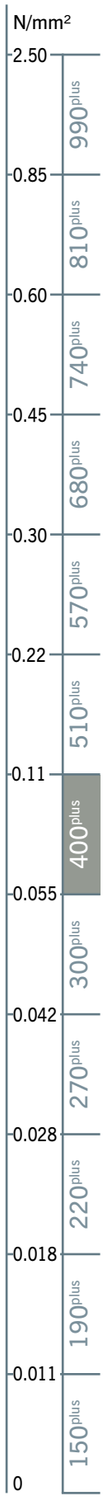


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 400** plus. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

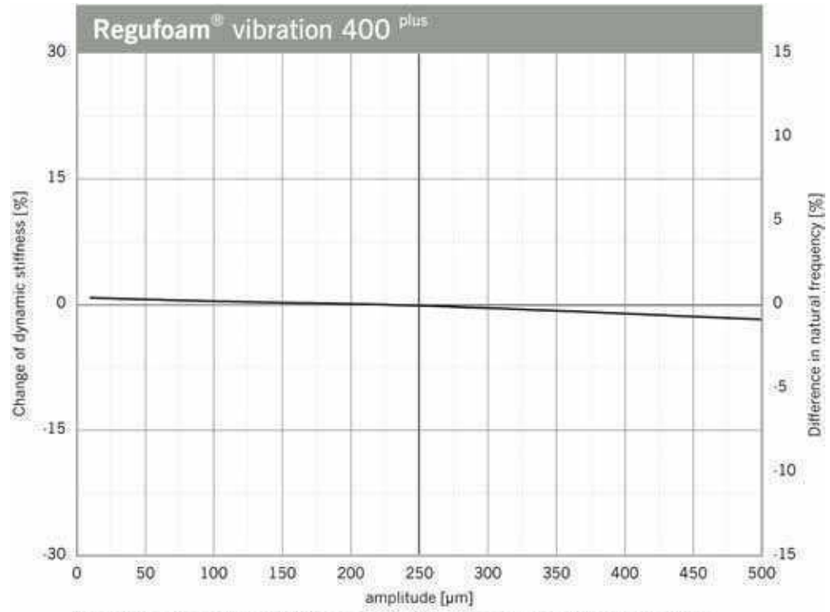
Natural Frequency



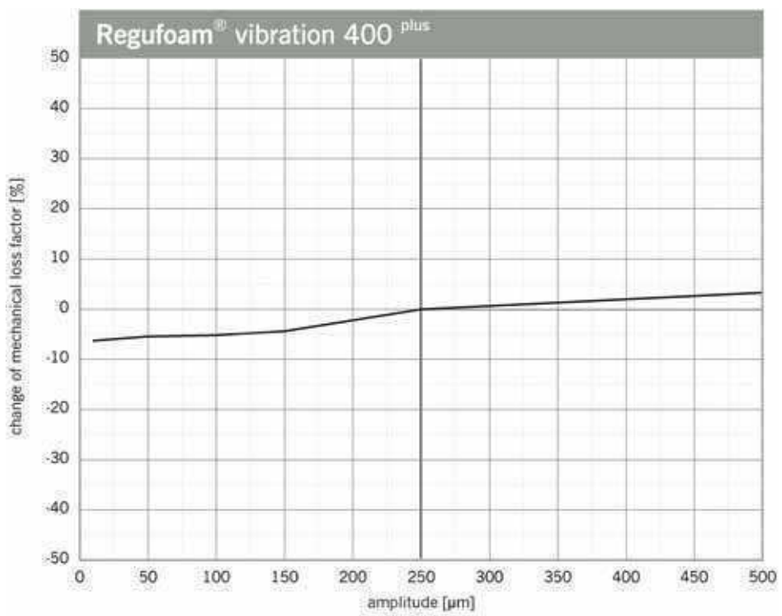
Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 400** plus on a rigid base. Dimensions of test specimens 300 mm x 300 mm.



Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.11 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.11 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

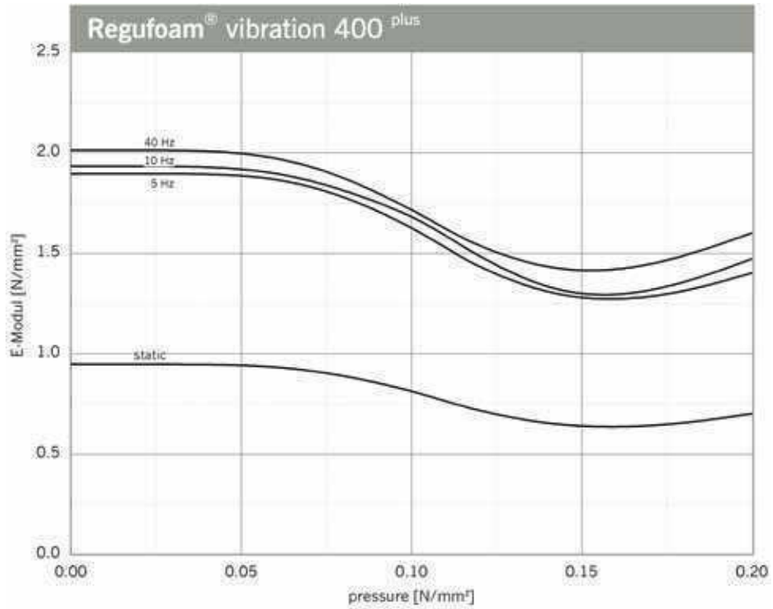


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

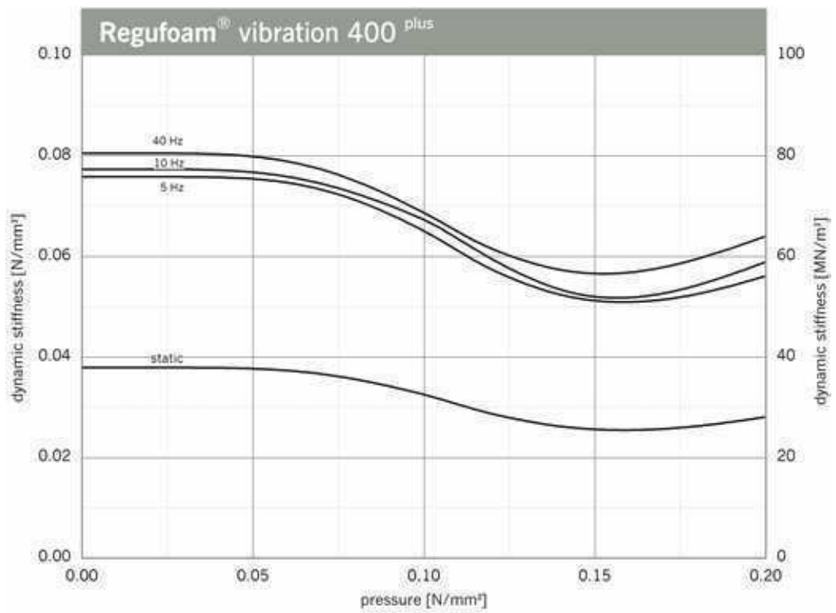
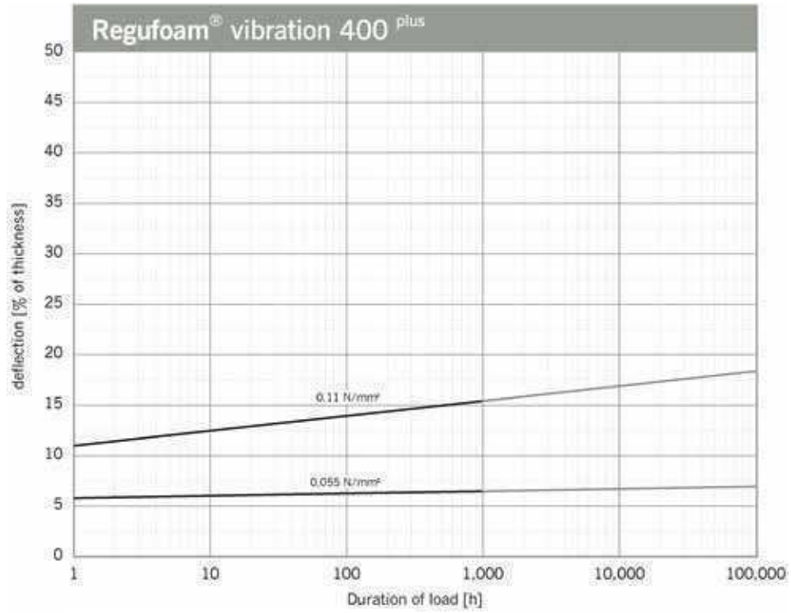


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 400 plus 2.6

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

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BSW

Regufoam® vibration 510 plus

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

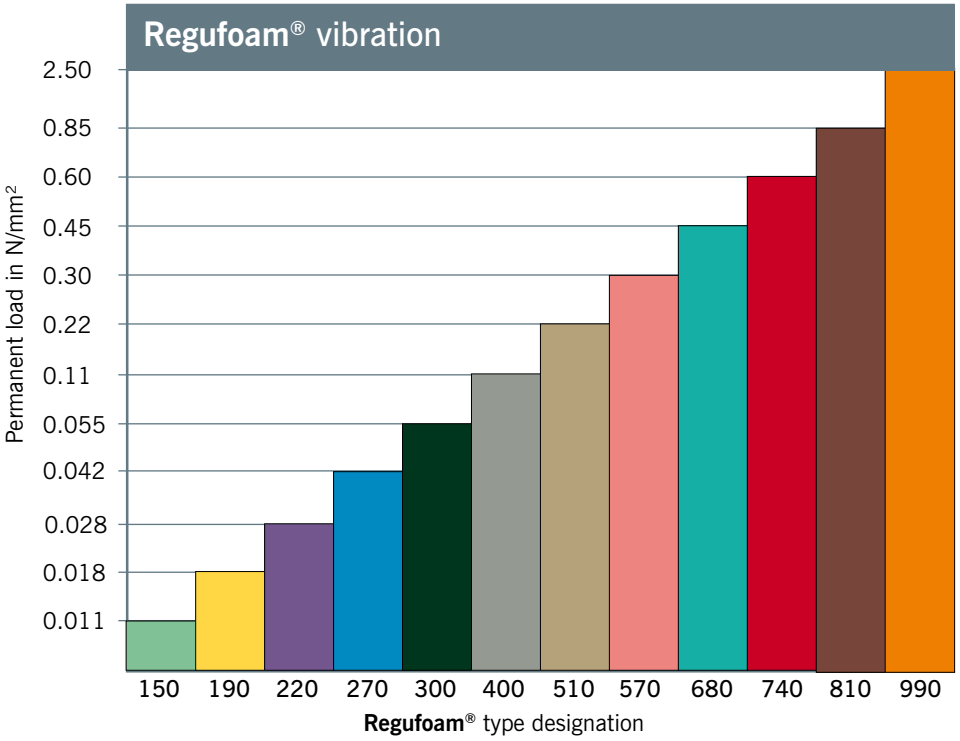
Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.22 N/mm²
Continuous and variable loads/operating load range
0 to 0.32 N/mm²
Peak loads (rare, short-term loads)
up to 4 N/mm²

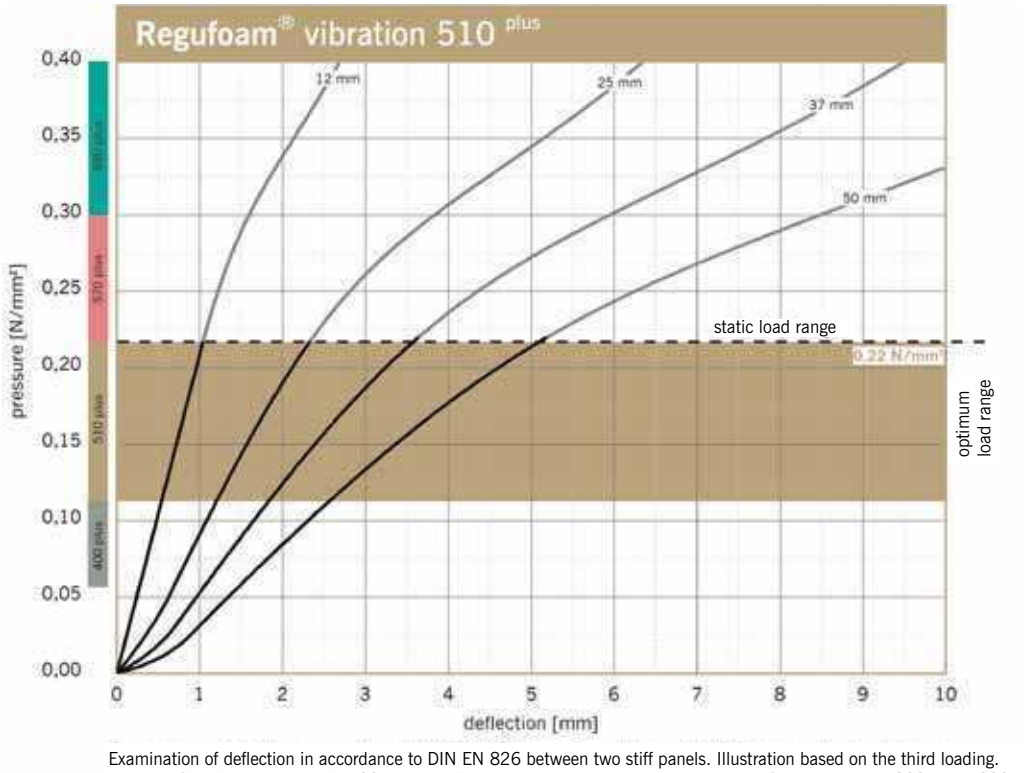
Static modulus of elasticity	Based on EN 826	1.1 - 1.7	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	2.2 - 3.7	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.15	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	4.2	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	2.4	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	240	%	
Tear resistance	Based on DIN ISO 34-1	9.3	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	330	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	60	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	61	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

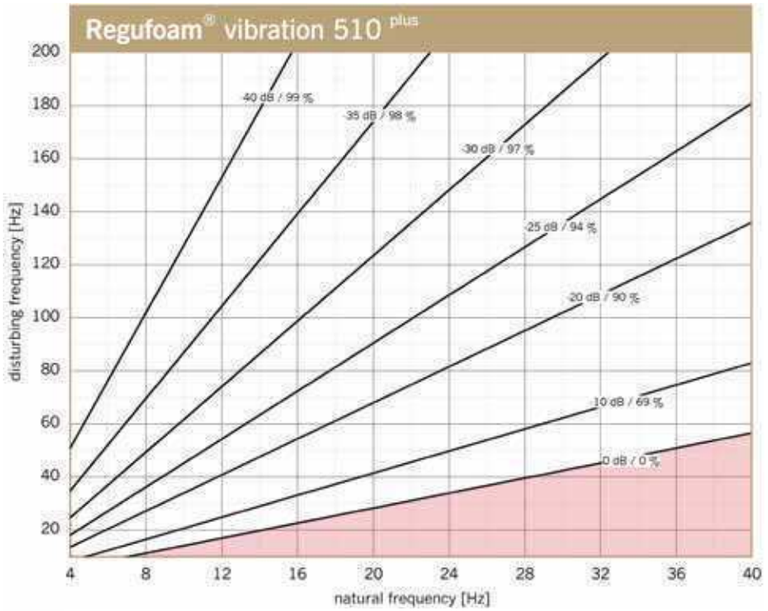
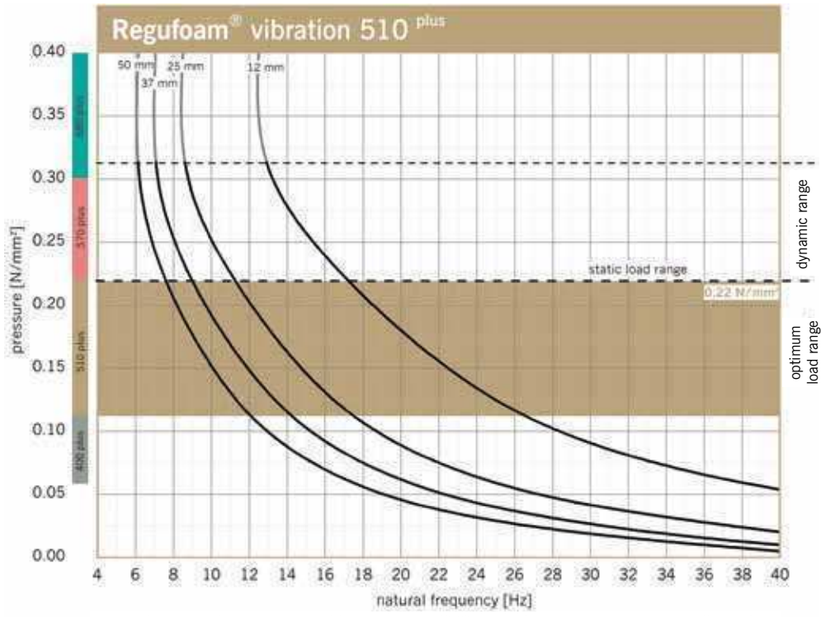


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 510 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

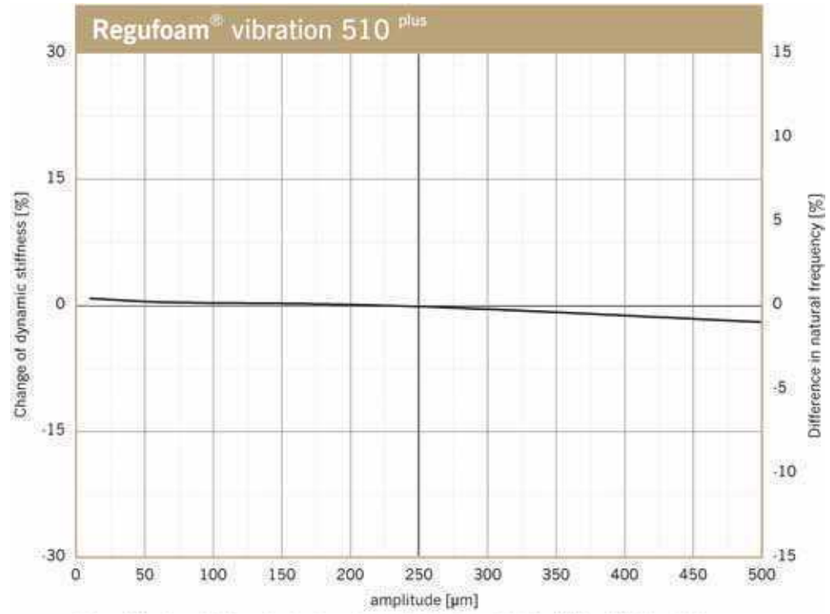
Natural Frequency



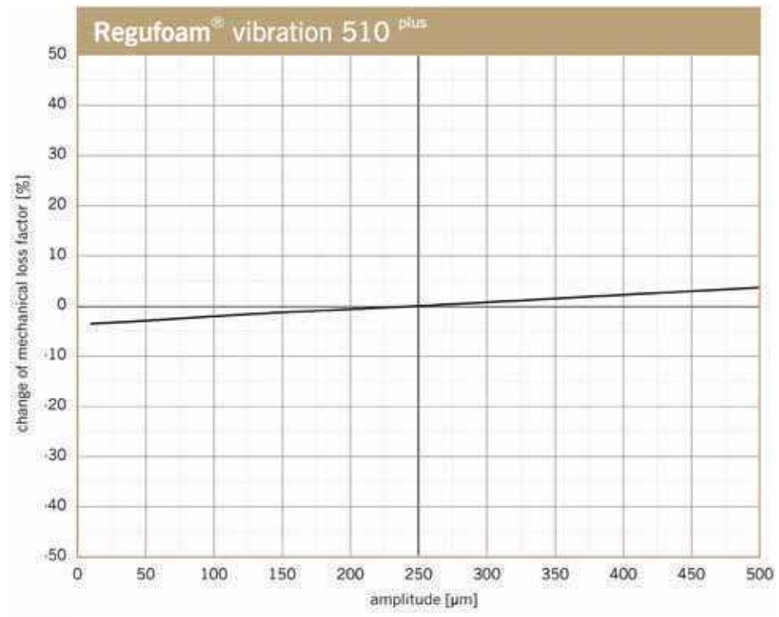
Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 510 plus** on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Regufoam® vibration 510 plus 2.7

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.22 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.22 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

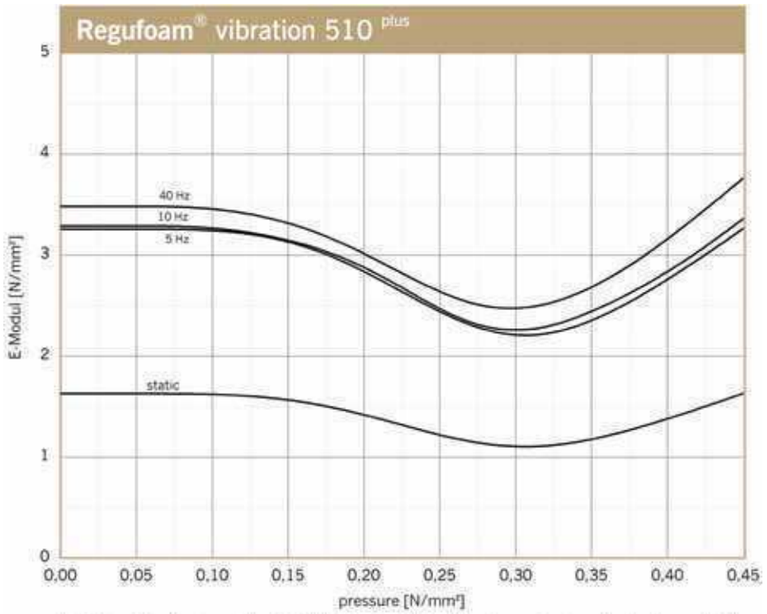


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

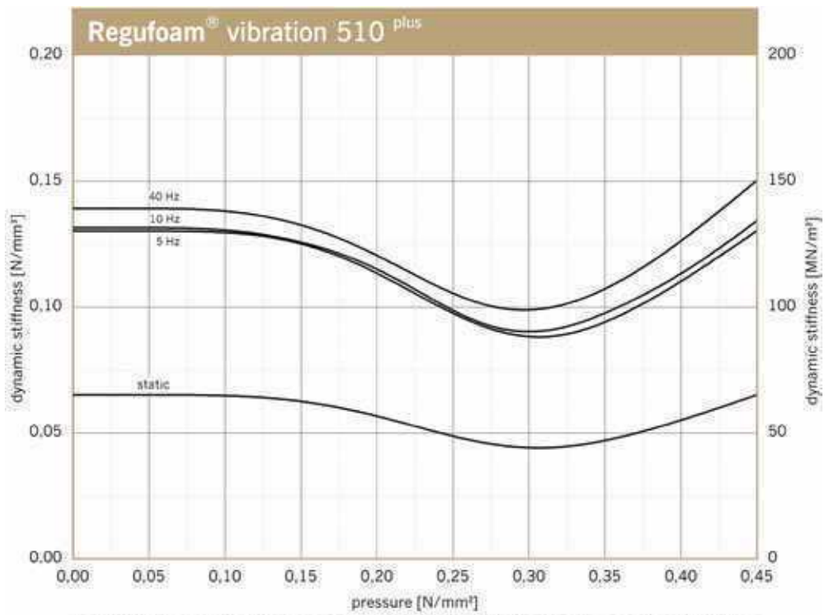
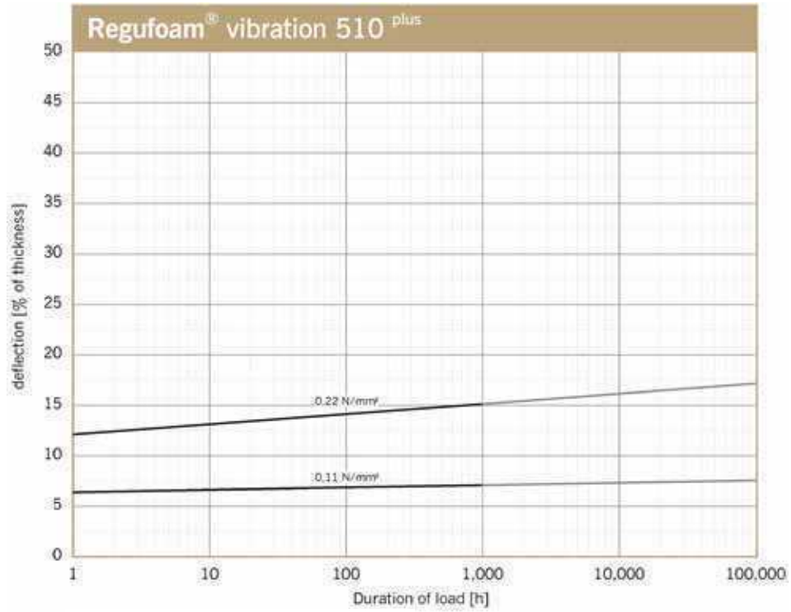


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 510 plus 2.7

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

Exclusion of Liability

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Florian Sassmannshausen, Phone: +49 2751 803-230 • f.sassmannshausen@berleburger.de •
Downloads at www.bsw-vibration-technology.com

BSW

Regufoam® vibration 570 plus

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

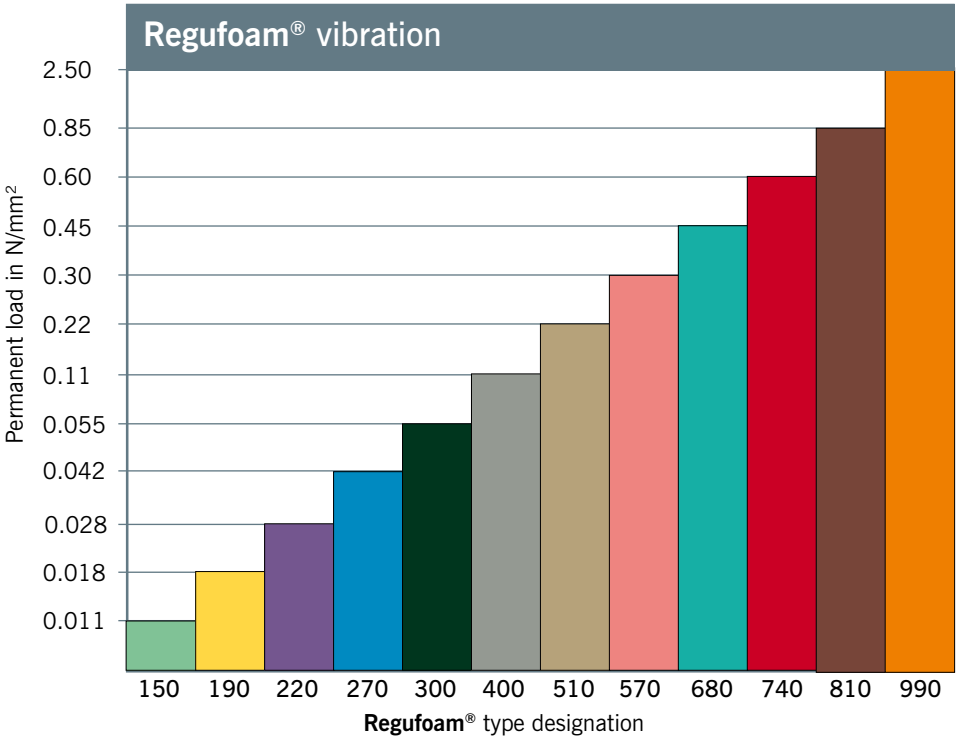
Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.30 N/mm²
Continuous and variable loads/operating load range
0 to 0.42 N/mm²
Peak loads (rare, short-term loads)
up to 4.5 N/mm²

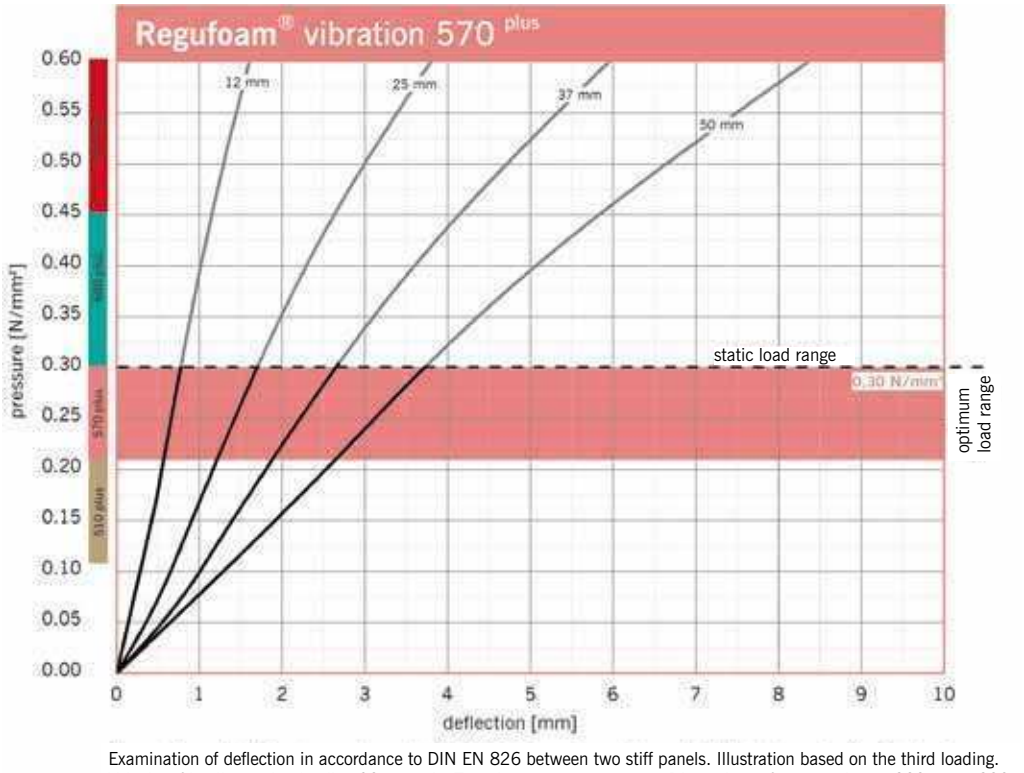
Static modulus of elasticity	Based on EN 826	2.6 - 2.7	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	5.1 - 6.3	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.14	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	4.4	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	2.9	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	210	%	
Tear resistance	Based on DIN ISO 34-1	14.1	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.7	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	620	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	58	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	50	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

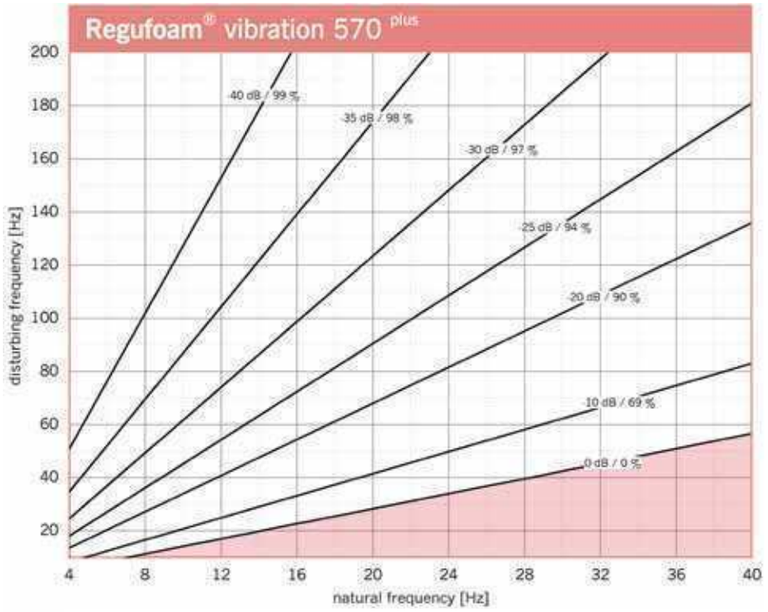
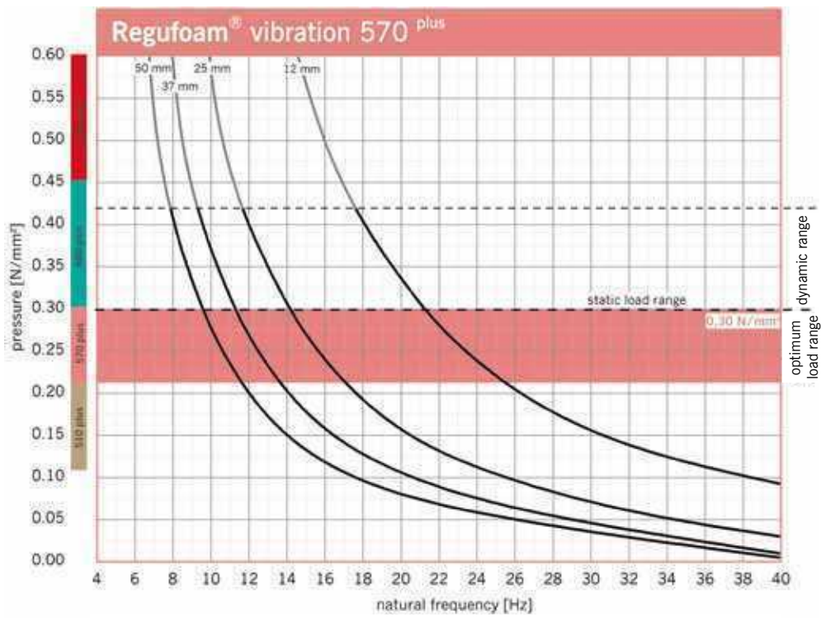


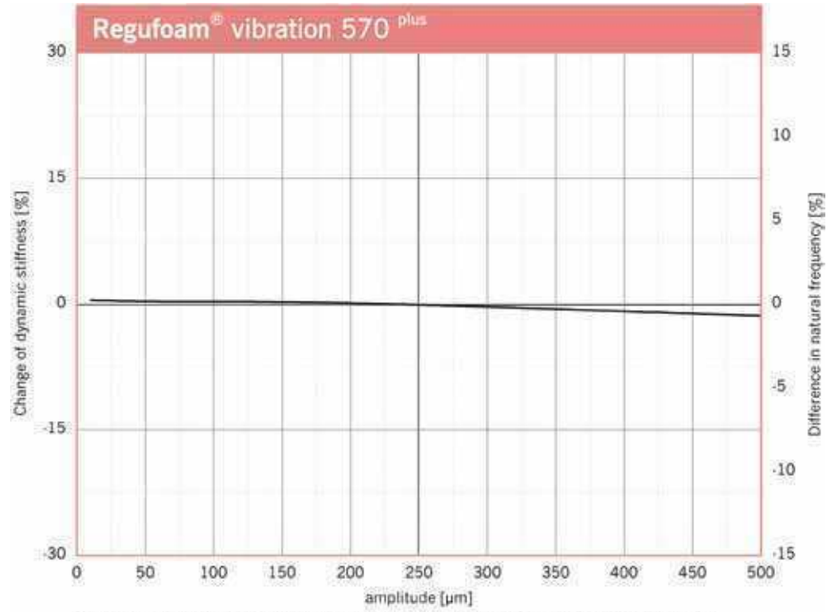
Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 570** plus. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Natural Frequency

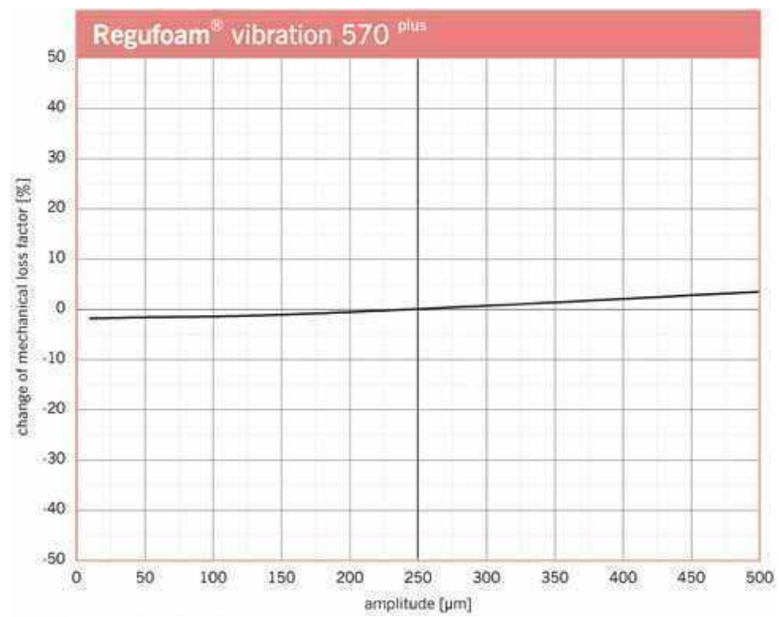


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 570** plus on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.30 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.30 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

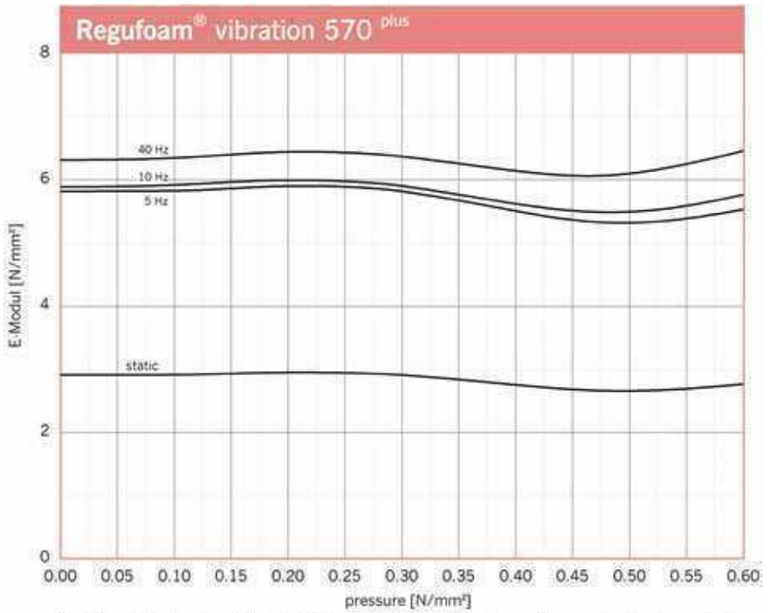


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

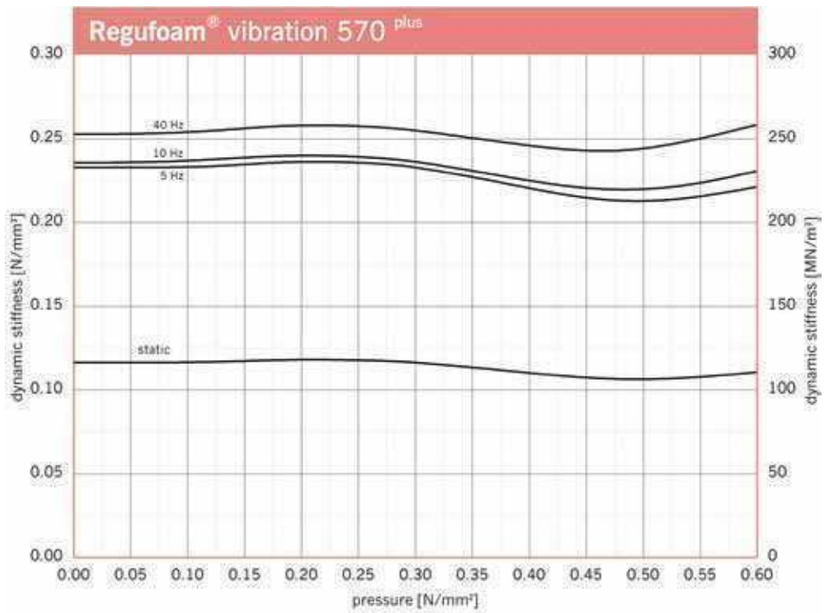
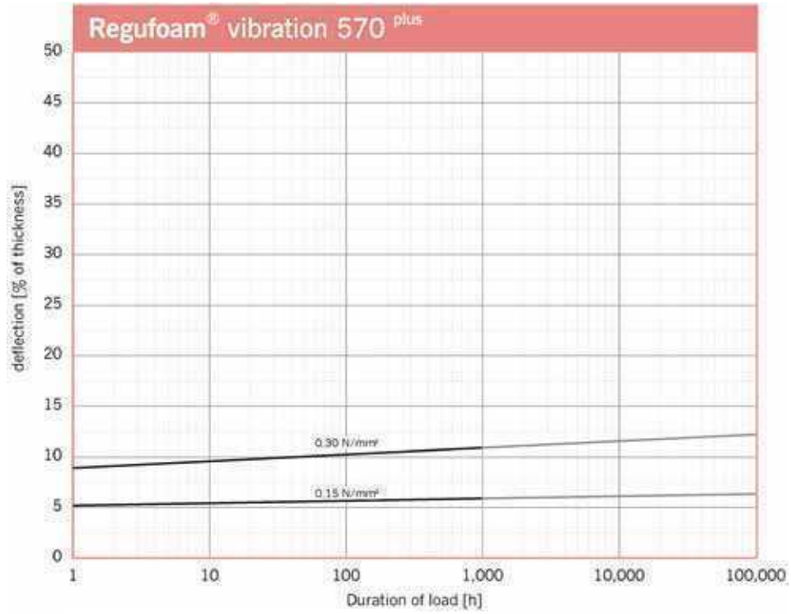


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 570 plus 2.8

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

Exclusion of Liability

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Downloads at www.bsw-vibration-technology.com

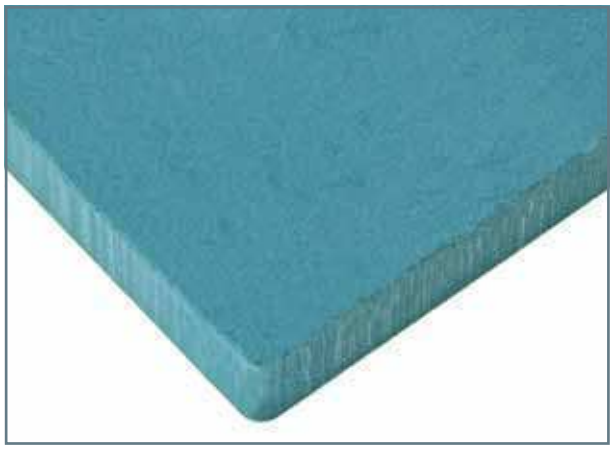
BSW

Regufoam® vibration 680 plus

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

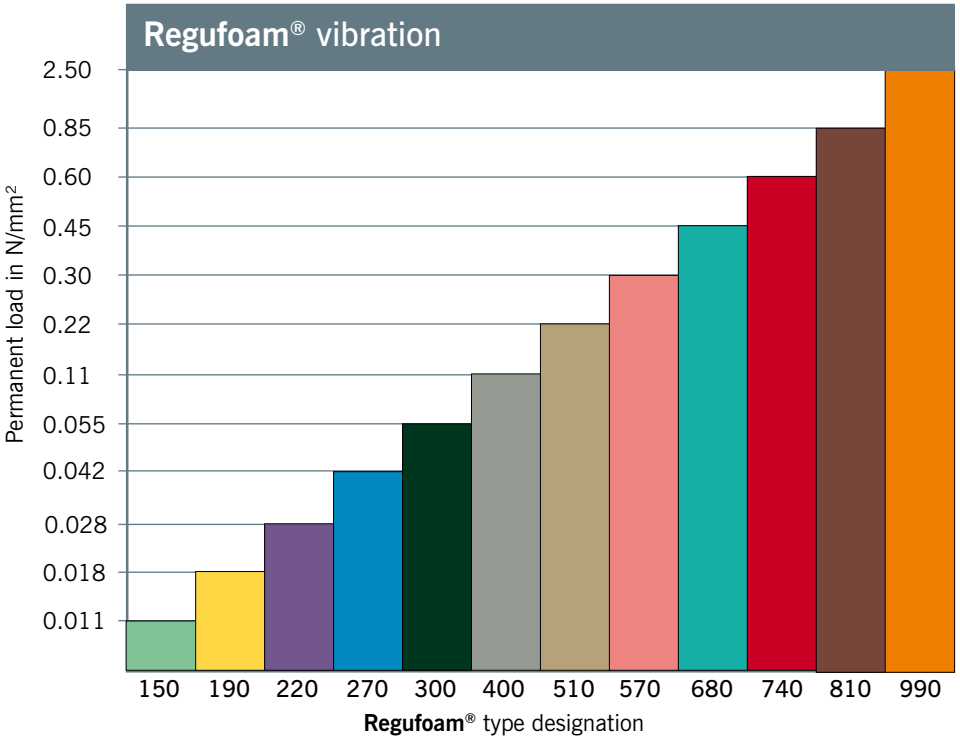
Continuous static load
0.45 N/mm²
Continuous and variable loads/operating load range
0 to 0.62 N/mm²
Peak loads (rare, short-term loads)
up to 5 N/mm²



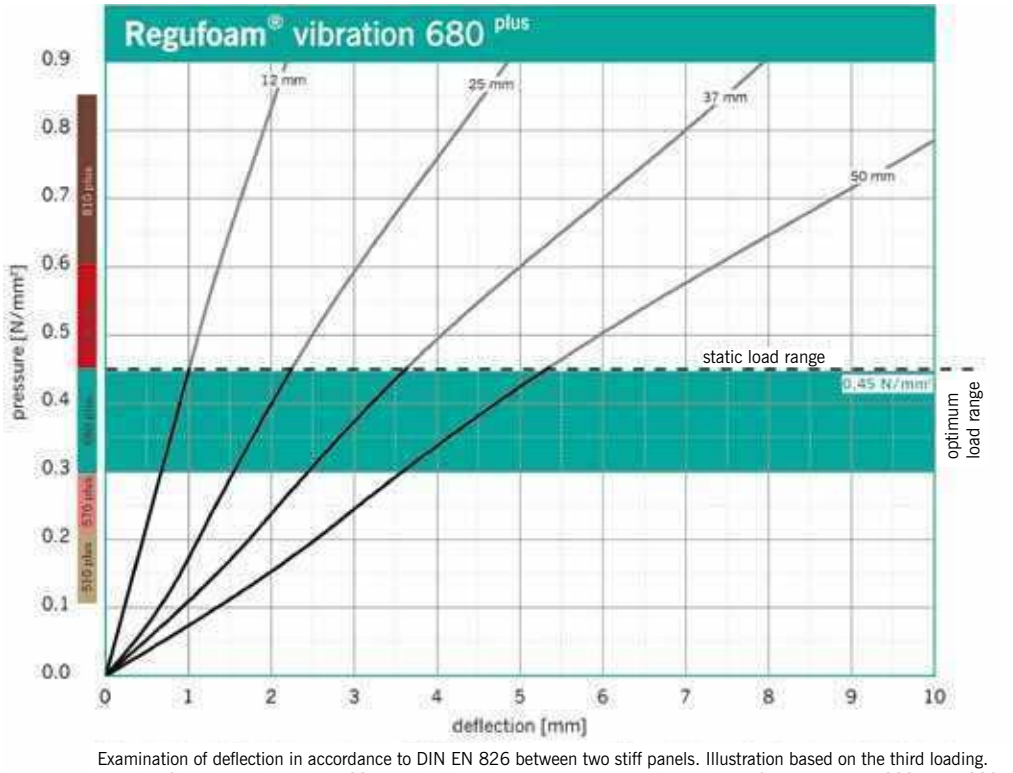
Static modulus of elasticity	Based on EN 826	2.0 - 2.9	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	6.8 - 10.0	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.12	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	6.2	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	3.6	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	230	%	
Tear resistance	Based on DIN ISO 34-1	18.5	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.7	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	840	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	58	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	44	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Vibration Isolation

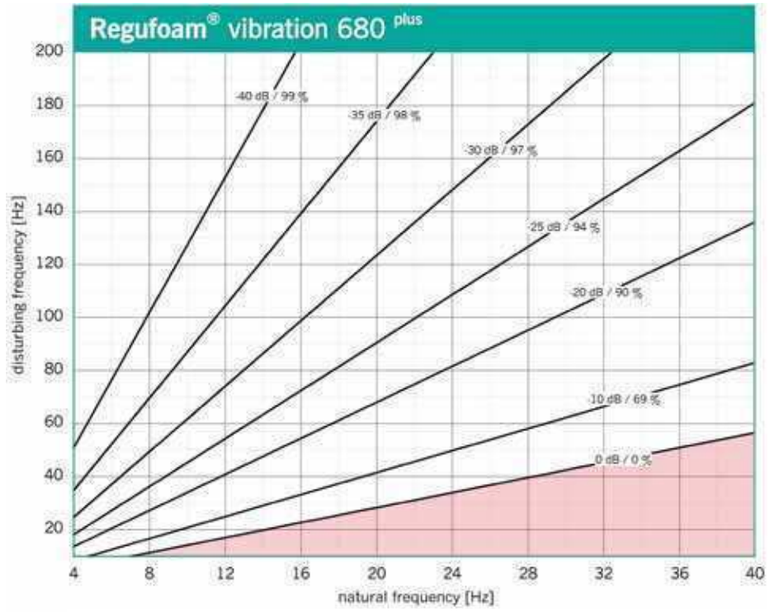
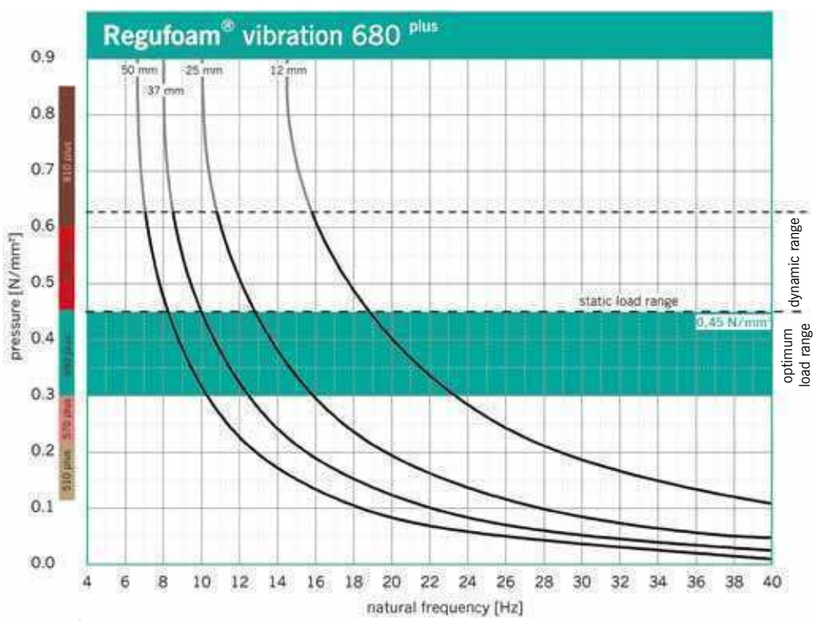


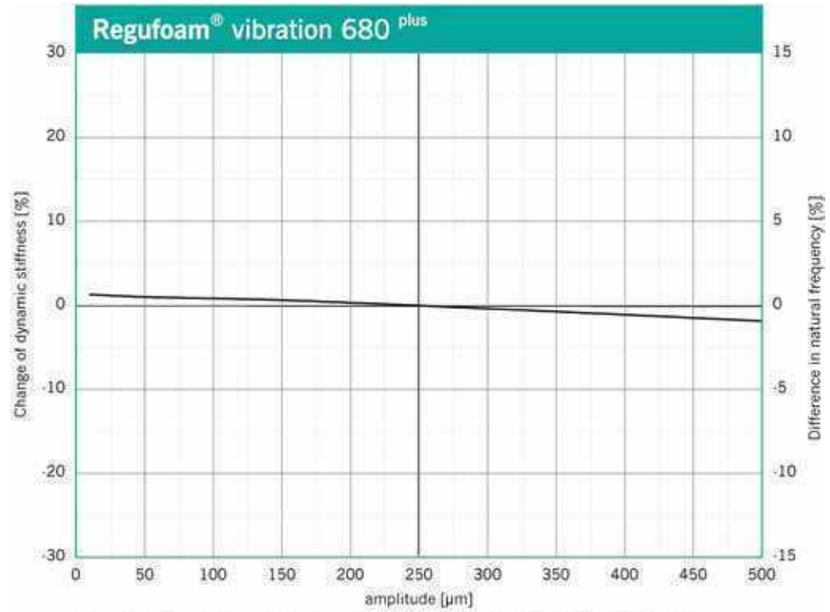
Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 680 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Natural Frequency

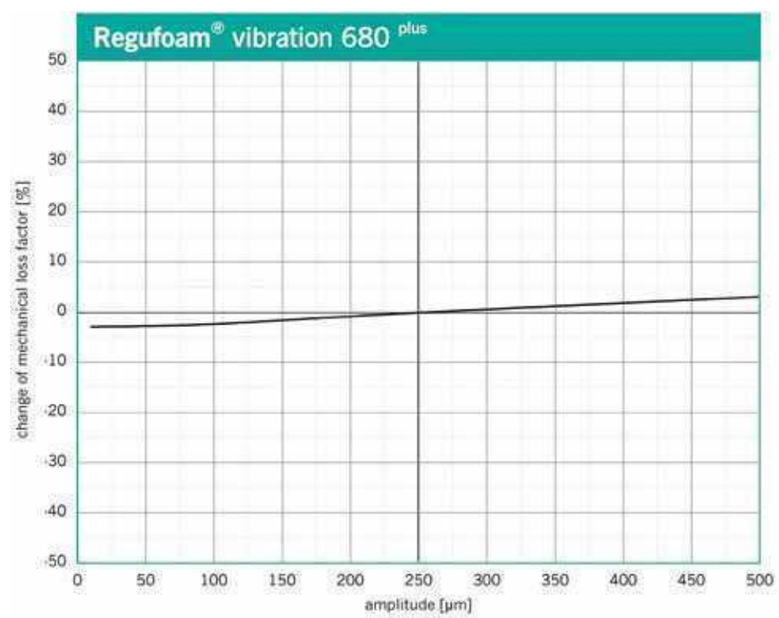


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 680 plus** on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.45 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.45 N/mm², dimensions of the specimens 300 mm x 300 mm x 25 mm.

Modulus of Elasticity

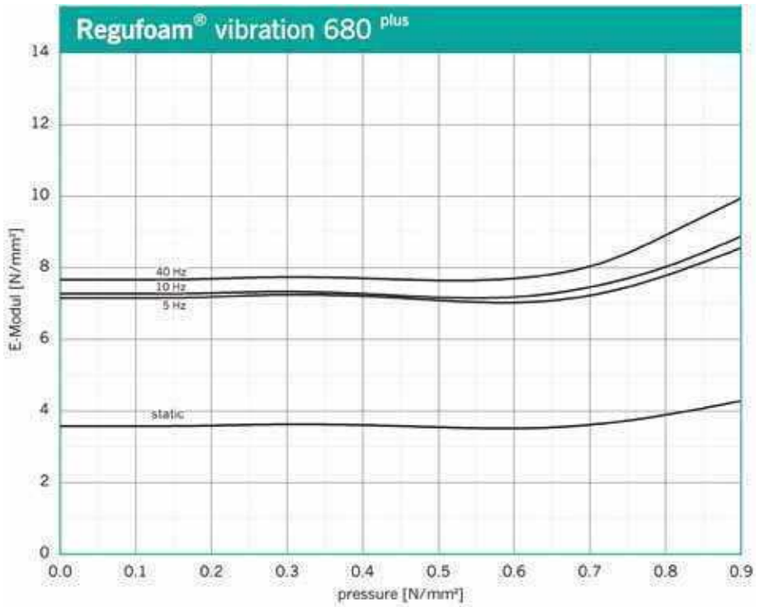


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

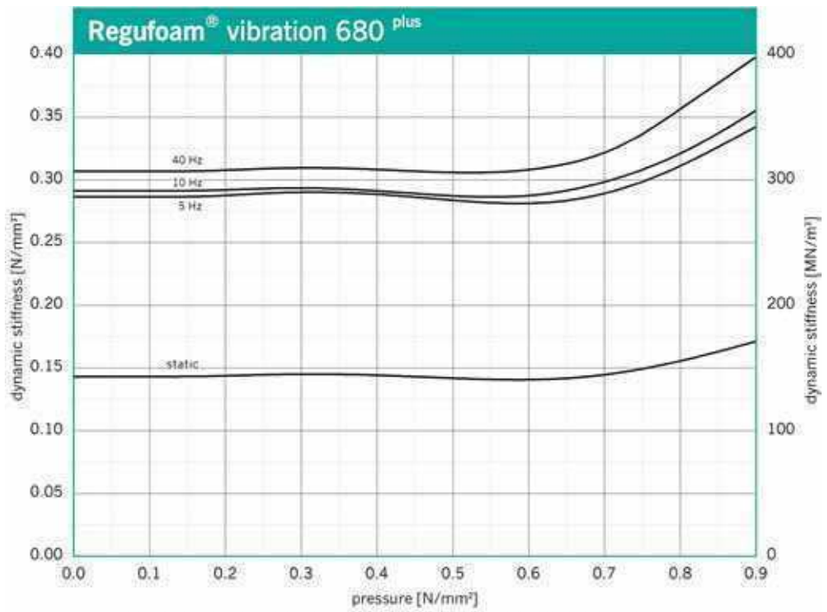
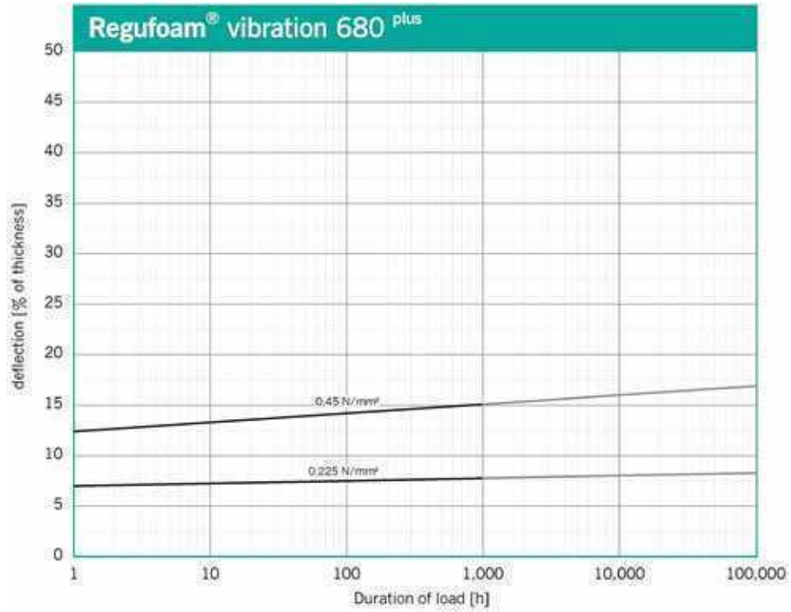


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 680 plus 2.9

Long-Term Creep Test



Dimensions of specimens 300 mm x 300 mm x 50 mm

Exclusion of Liability

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BSW

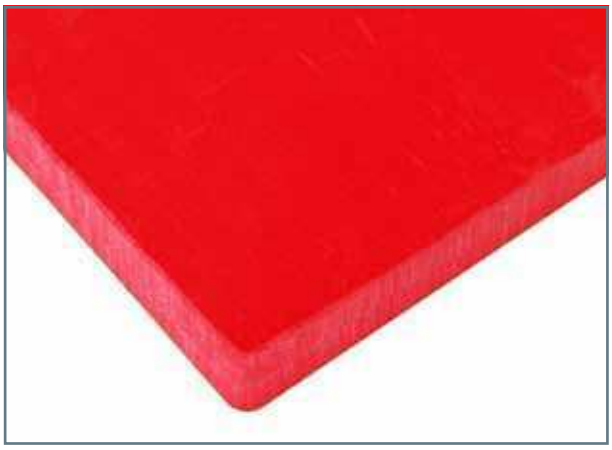
Regufoam® vibration 740 plus

2.10

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

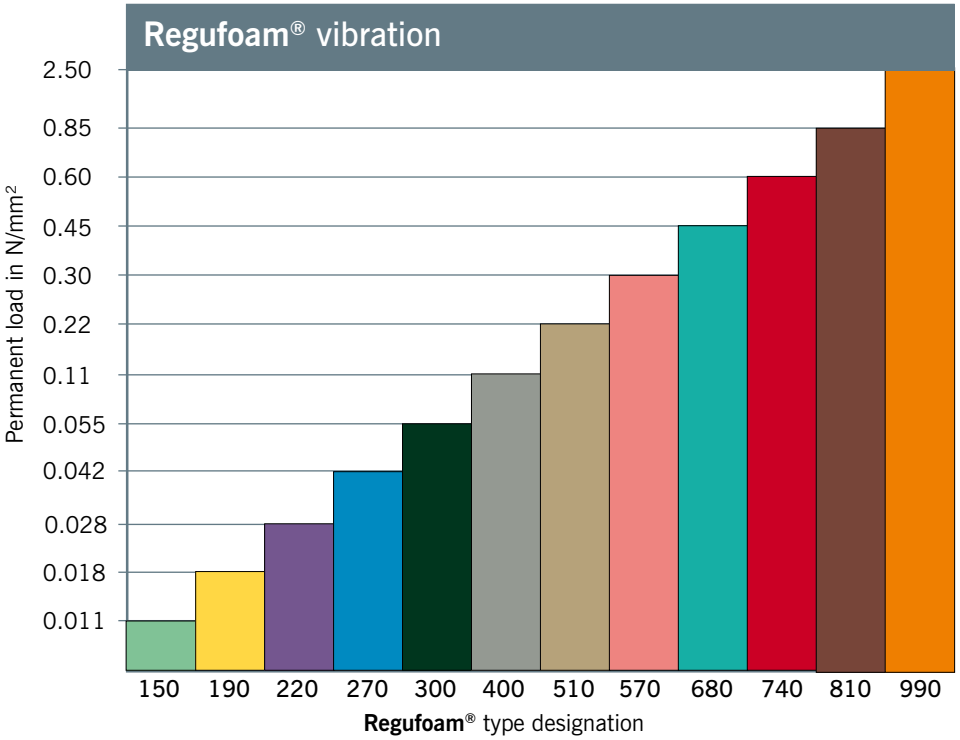
Continuous static load
0.60 N/mm²
Continuous and variable loads/operating load range
0 to 0.85 N/mm²
Peak loads (rare, short-term loads)
up to 6 N/mm²



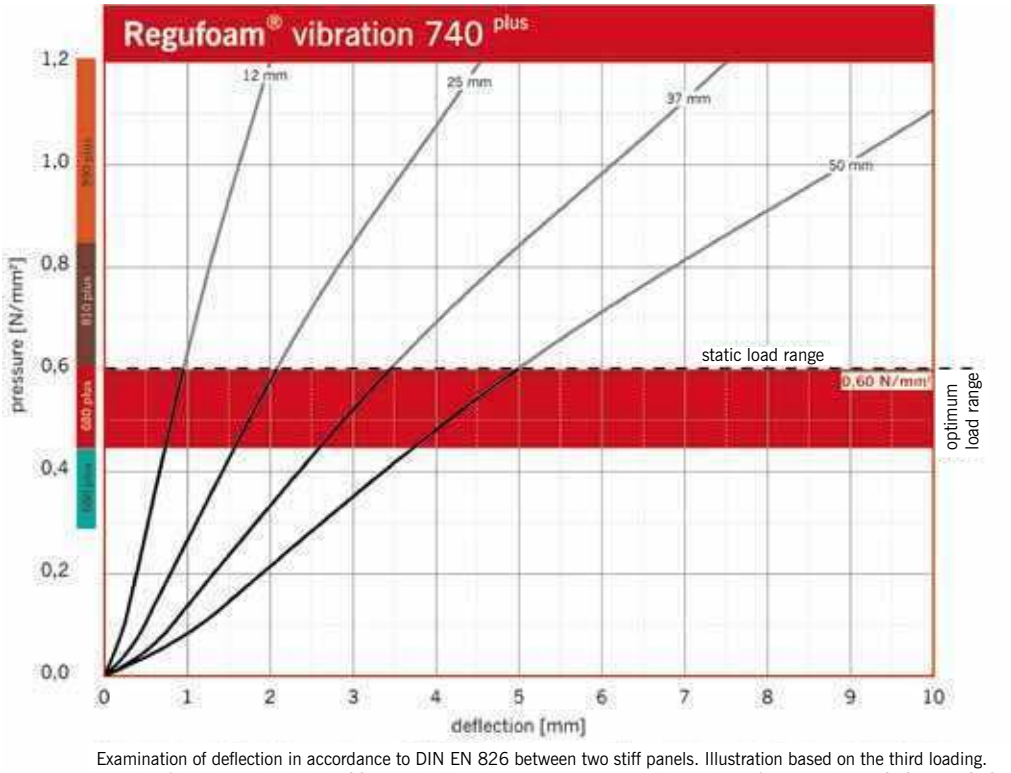
Static modulus of elasticity	Based on EN 826	4.3 - 5.9	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	7.9 - 13.0	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.11	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	4.8	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	4.0	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	210	%	
Tear resistance	Based on DIN ISO 34-1	19.0	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.7	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	1050	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	59	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	39	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 250 mm x 250 mm.

Vibration Isolation

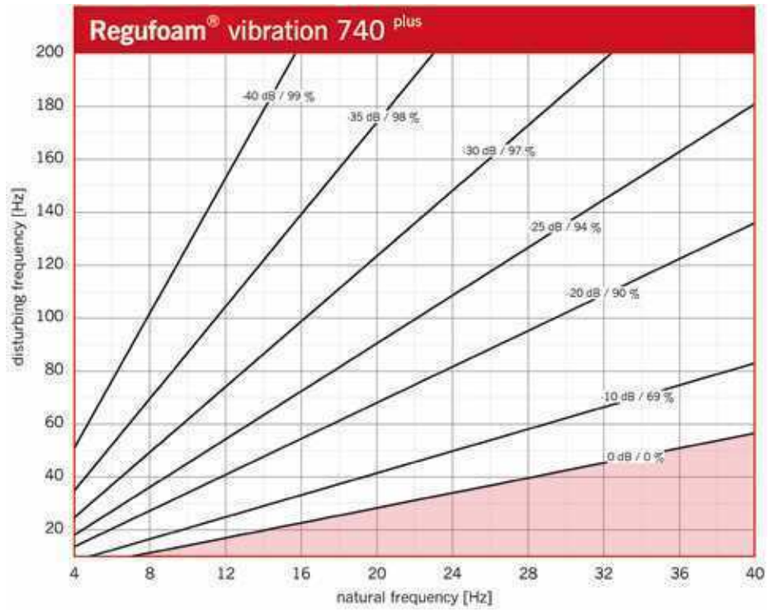
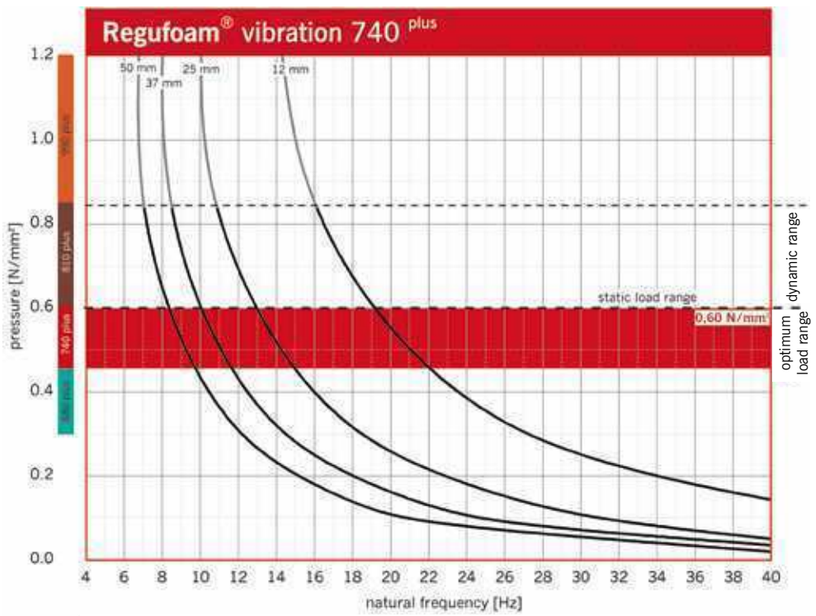


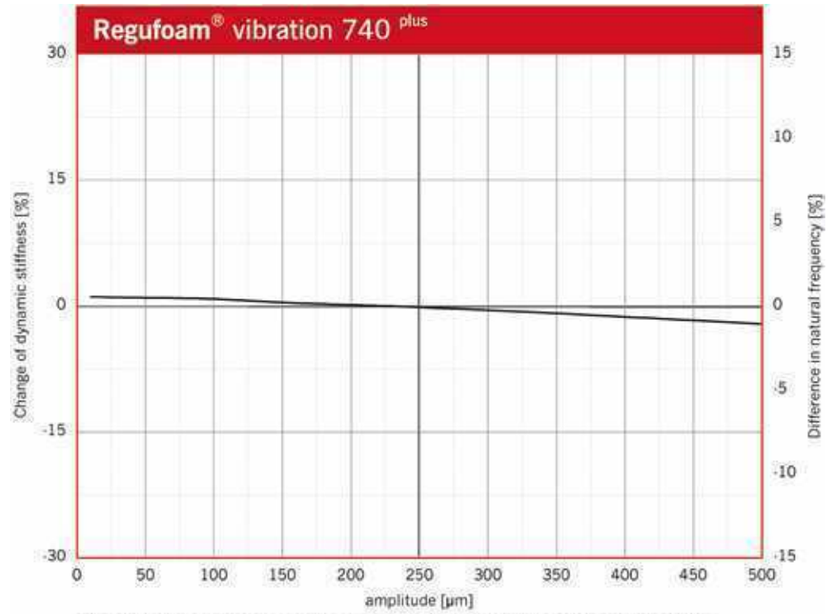
Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 740** plus. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Natural Frequency

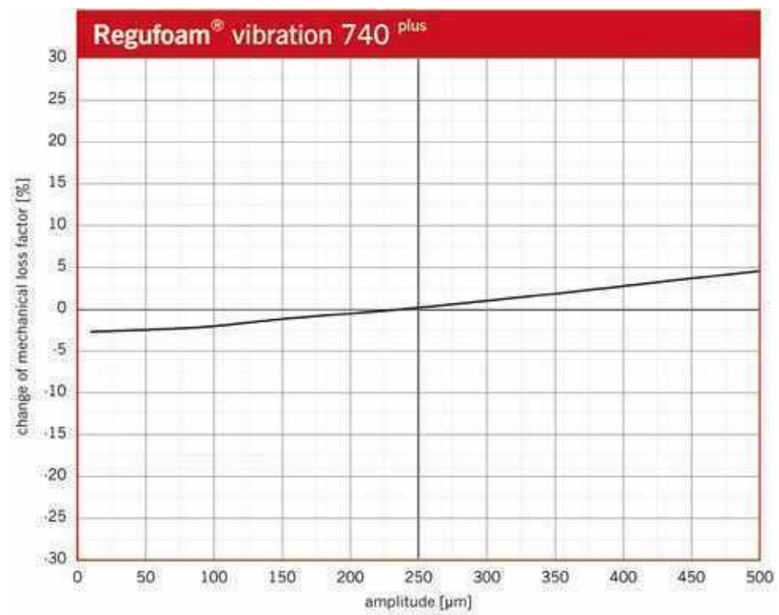


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 740** plus on a rigid base. Dimensions of test specimens 250 mm x 250 mm.

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.60 N/mm², dimensions of the specimens 250 mm x 250 mm x 50 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.60 N/mm², dimensions of the specimens 250 mm x 250 mm x 50 mm.

Modulus of Elasticity

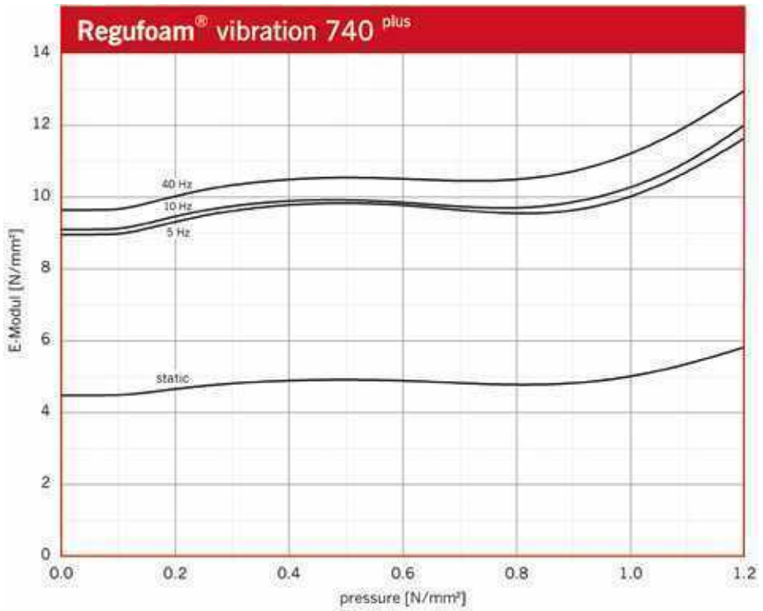


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 250 mm x 250 mm x 50 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

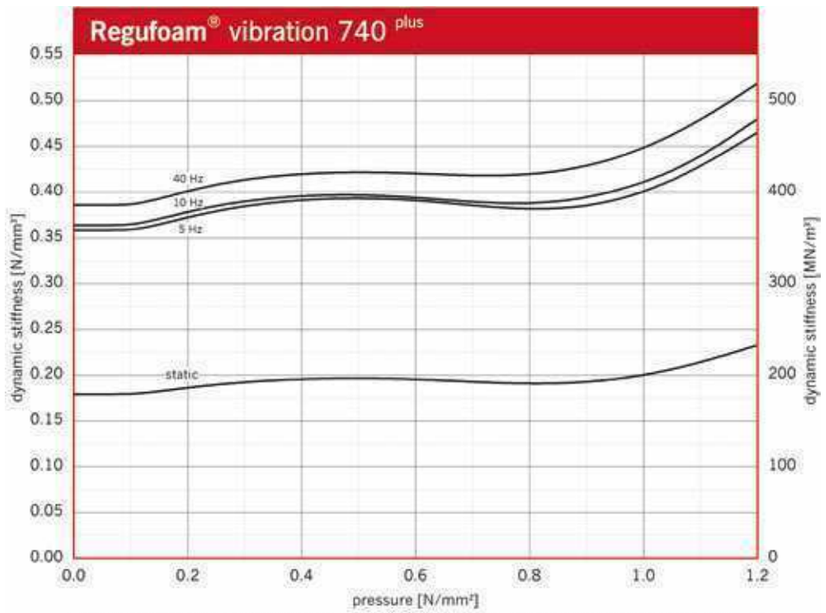
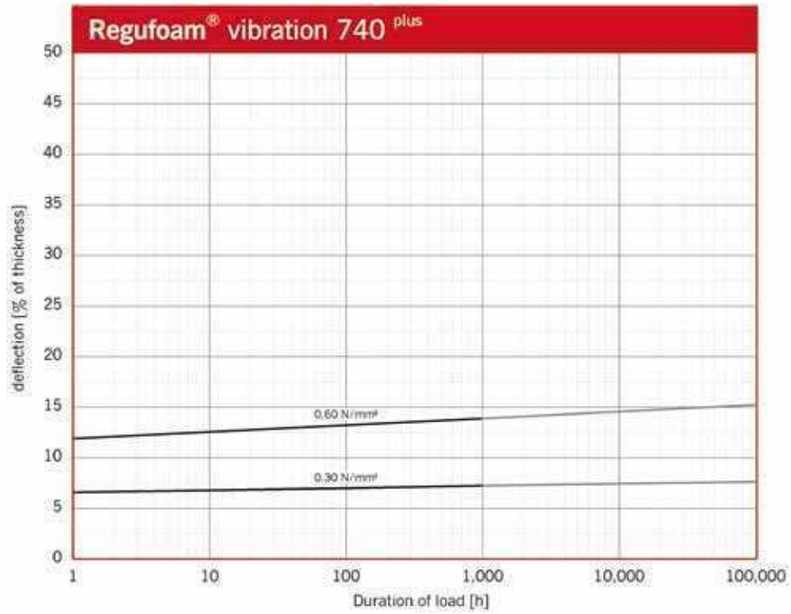


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.25 mm. Dimensions of specimens 250 mm x 250 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 740 plus 2.10

Long-Term Creep Test



Dimensions of specimens 250 mm x 250 mm x 50 mm

Exclusion of Liability

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Florian Sassmannshausen, Phone: +49 2751 803-230 • f.sassmannshausen@berleburger.de •
Downloads at www.bsw-vibration-technology.com

BSW

Regufoam® vibration 810 plus

2.11

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

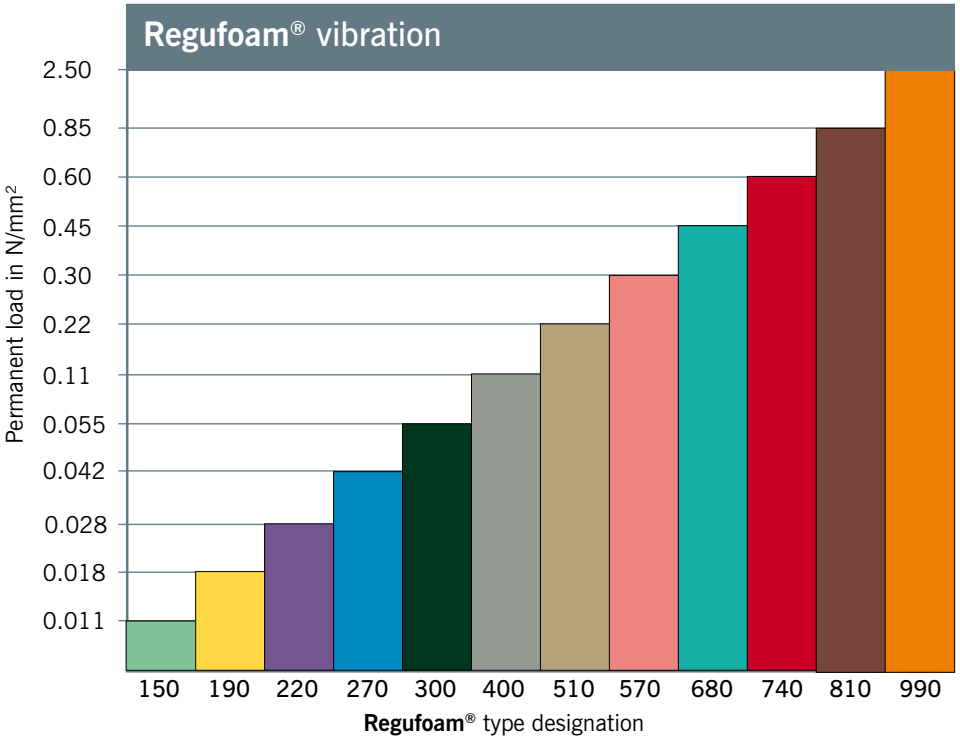
Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.85 N/mm²
Continuous and variable loads/operating load range
0 to 1.20 N/mm²
Peak loads (rare, short-term loads)
up to 7 N/mm²

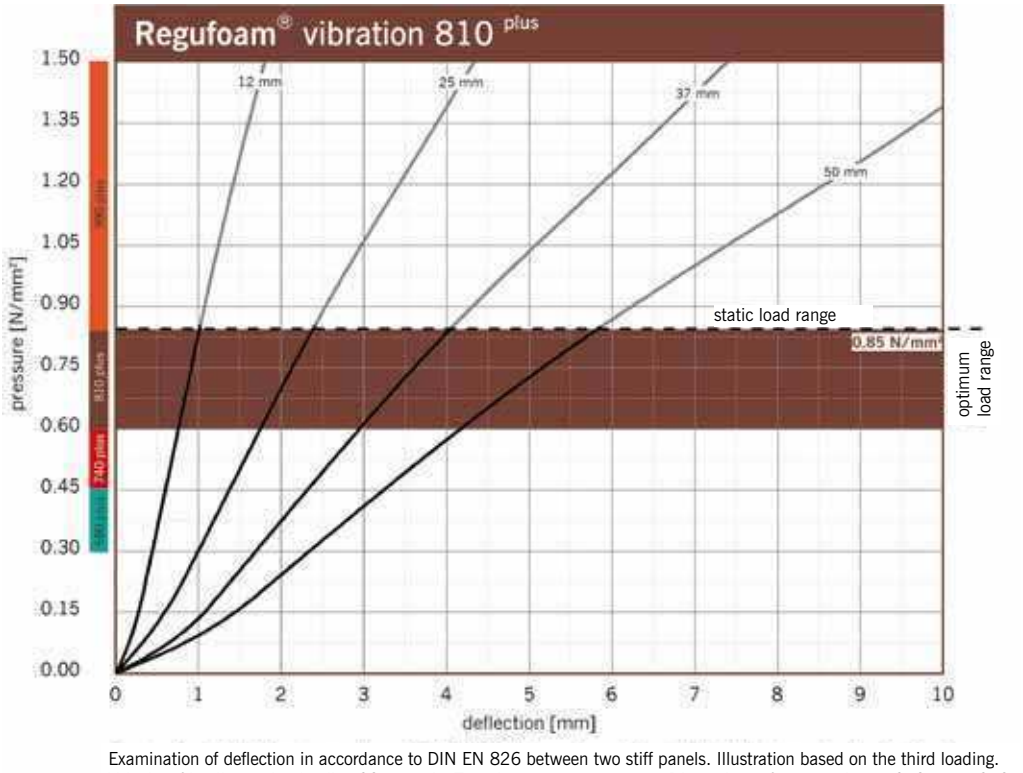
Static modulus of elasticity	Based on EN 826	5.8 - 7.2	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	11.0 - 16.5	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.10	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	7.9	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	4.6	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	230	%	
Tear resistance	Based on DIN ISO 34-1	20.0	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.75	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	1241	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	58	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	35	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 250 mm x 250 mm.

Vibration Isolation

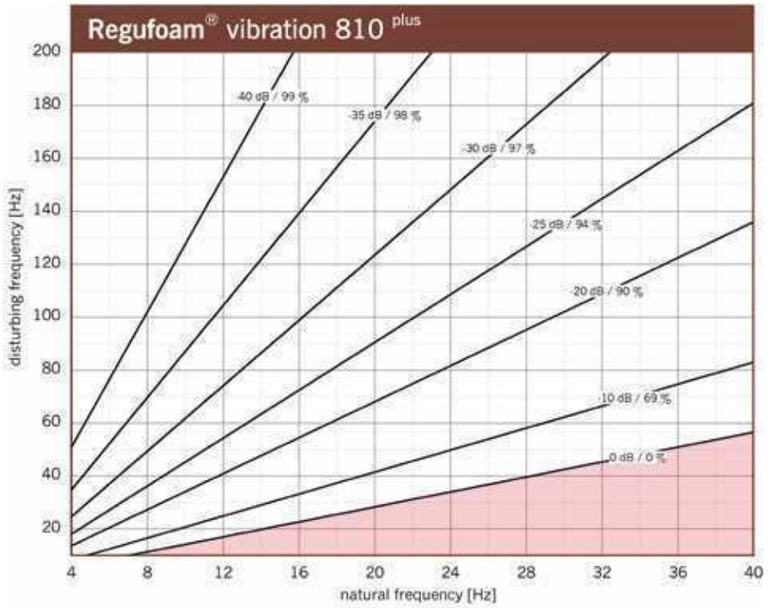
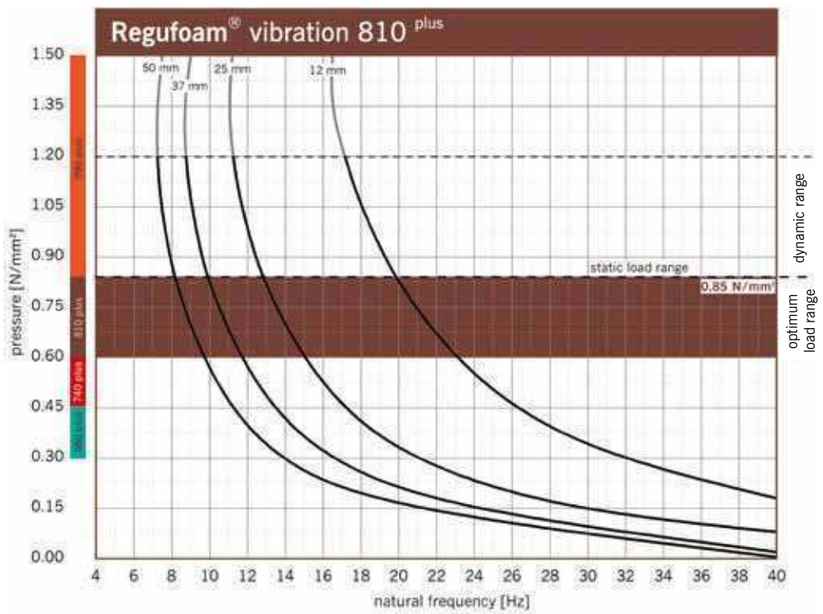


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 810 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

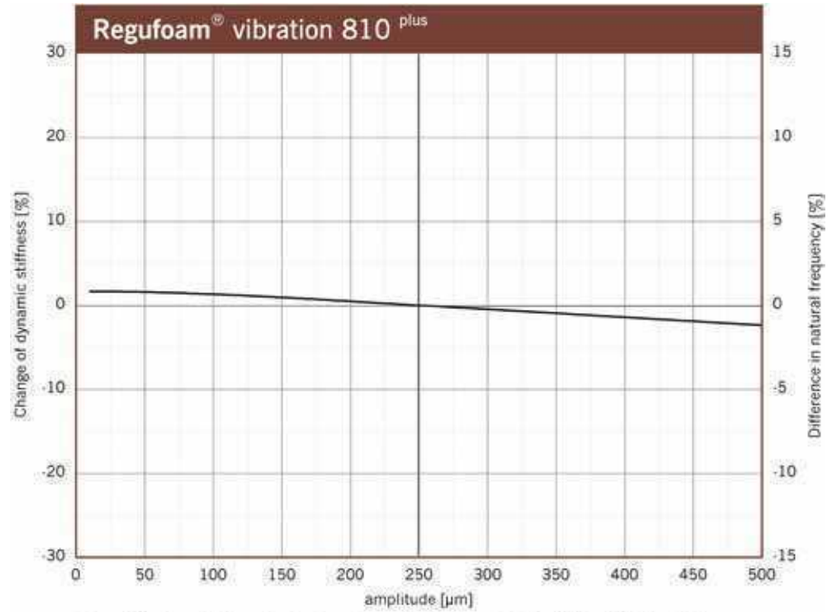
Natural Frequency



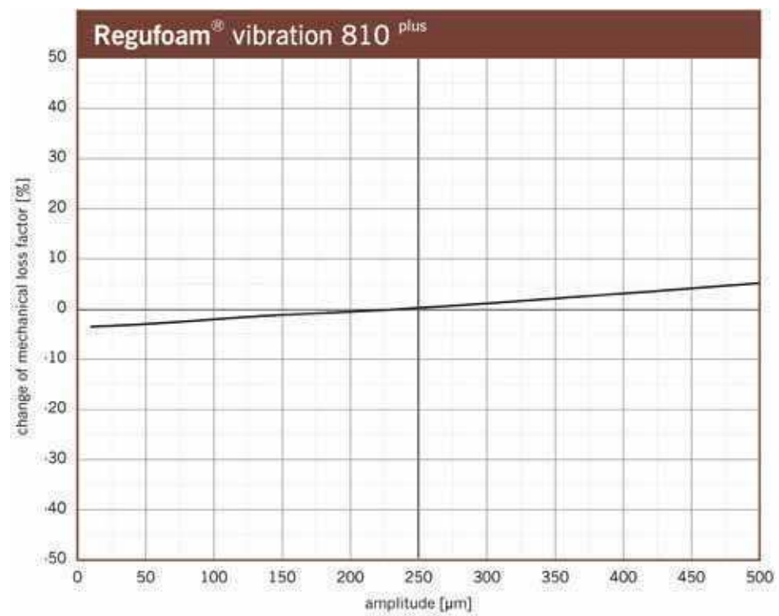
Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 810 plus** on a rigid base. Dimensions of test specimens 250 mm x 250 mm.

Regufoam® vibration 810 plus 2.11

Influence of Amplitude



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.85 N/mm², dimensions of the specimens 250 mm x 250 mm x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change ot the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.85 N/mm², dimensions of the specimens 250 mm x 250 mm x 25 mm.

Modulus of Elasticity

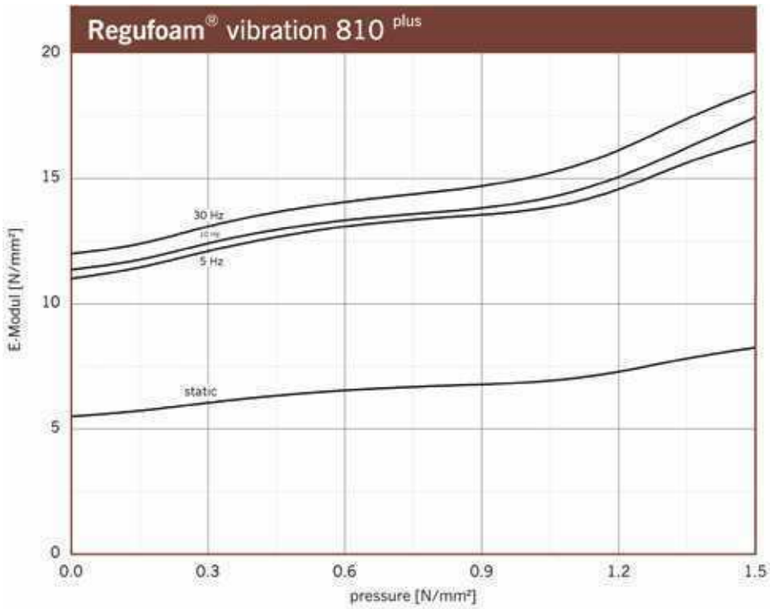


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.10 mm. Dimensions of specimens 250 mm x 250 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

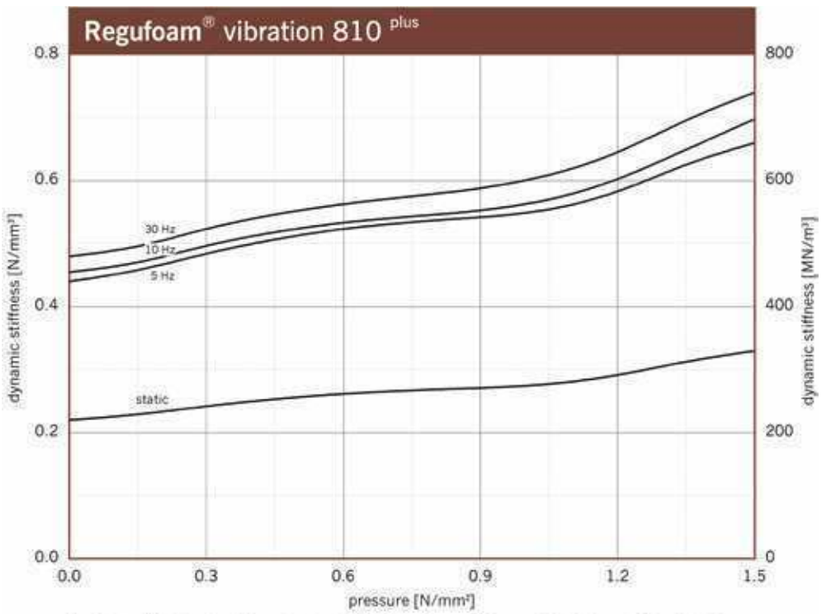
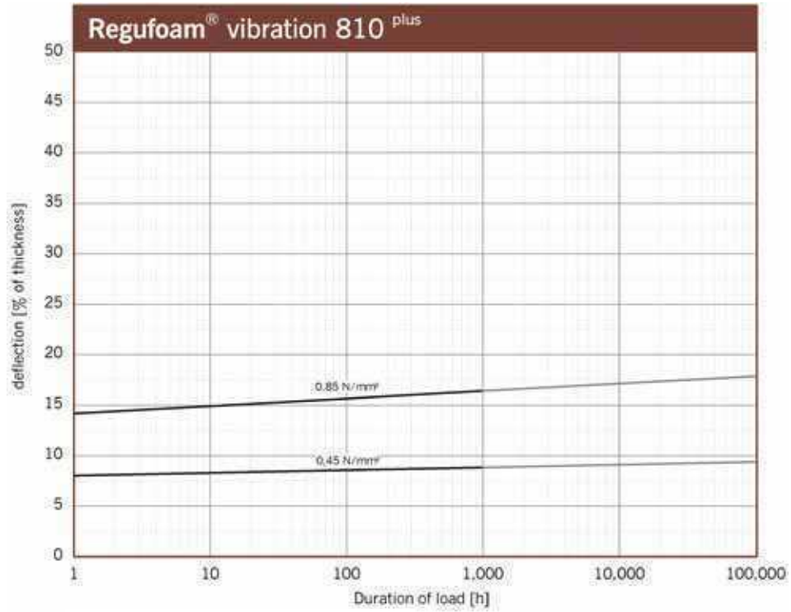


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.10 mm. Dimensions of specimens 250 mm x 250 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 810 plus 2.11

Long-Term Creep Test



Dimensions of specimens 250 mm x 250 mm x 50 mm

Exclusion of Liability

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Downloads at www.bsw-vibration-technology.com

BSW

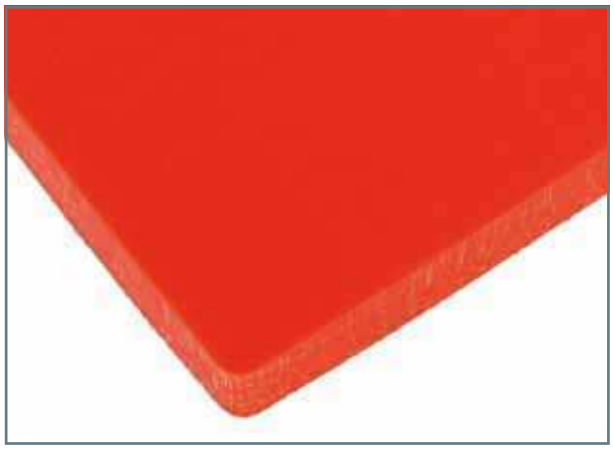
Regufoam® vibration 990 plus

2.12

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

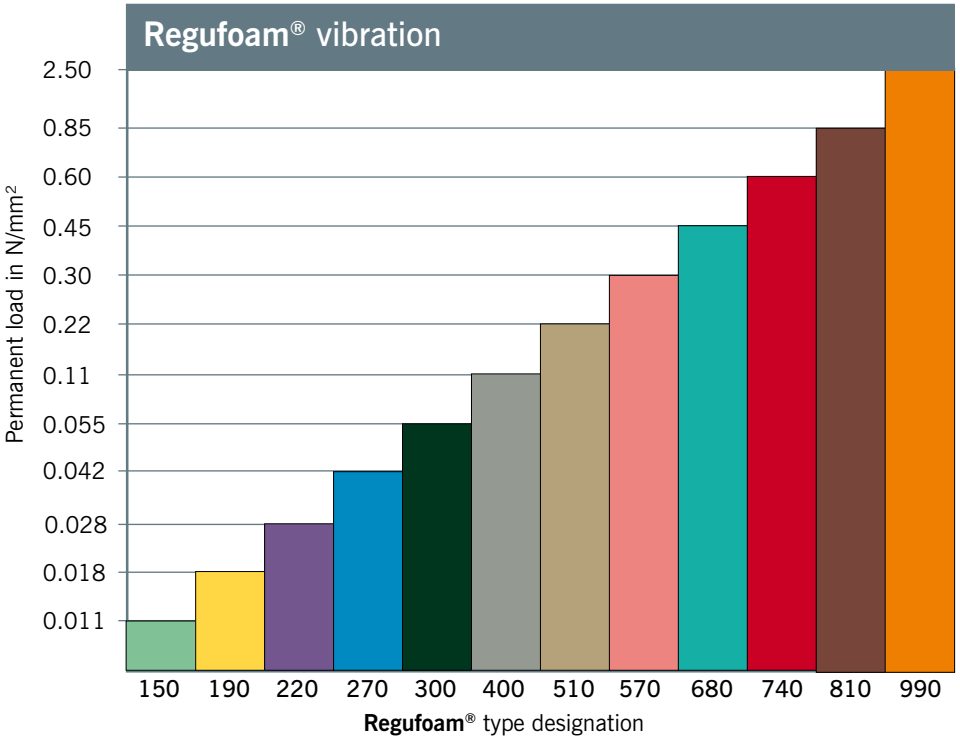
Continuous static load
2.5 N/mm²
Continuous and variable loads/operating load range
0 to 3.5 N/mm²
Peak loads (rare, short-term loads)
up to 8.0 N/mm²



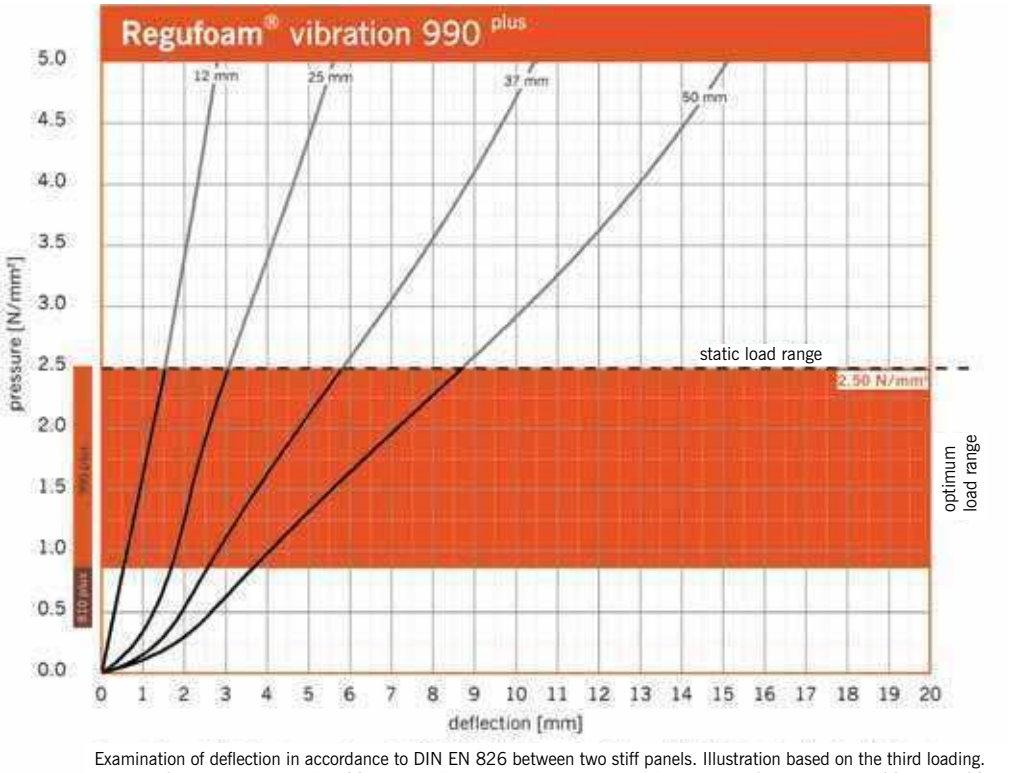
Static modulus of elasticity	Based on EN 826	20.0 - 78.0	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	41.0 - 160.0	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.09	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	8.6	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	6.9	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	190	%	
Tear resistance	Based on DIN ISO 34-1	34.5	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.5 0.6	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	3640	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	55	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	20	%	dependent on thickness, test specimen h = 25 mm

N/mm²
2.50 990plus
0.85 810plus
0.60 740plus
0.45 680plus
0.30 570plus
0.22 510plus
0.11 400plus
0.055 300plus
0.042 270plus
0.028 220plus
0.018 190plus
0.011 150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 125 mm x 125 mm.

Vibration Isolation

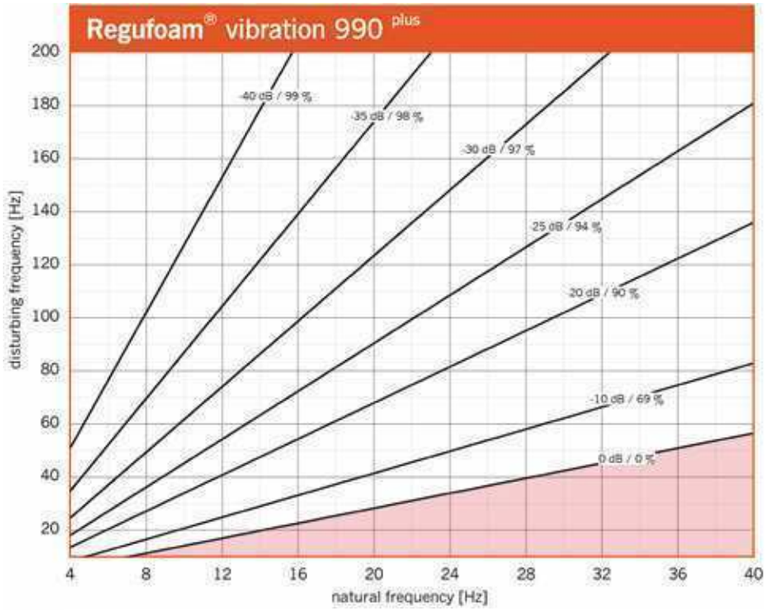
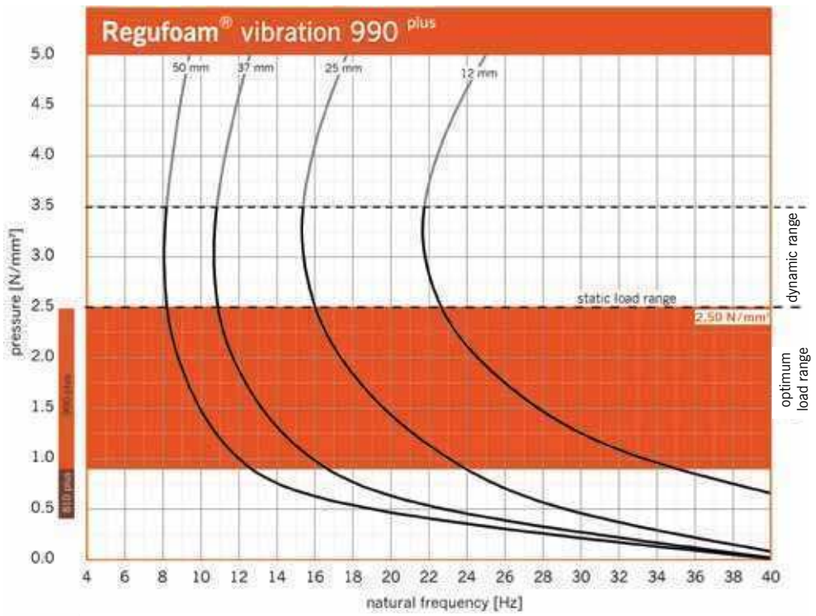


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 990 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Natural Frequency



Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 990 plus** on a rigid base. Dimensions of test specimens 125 mm x 125 mm.

Regufoam® vibration 990 plus 2.12

Influence of Amplitude

In order to get information of changes in mechanical loss or dynamic stiffness due to changes in amplitudes please ask technical staff of BSW.

Modulus of Elasticity

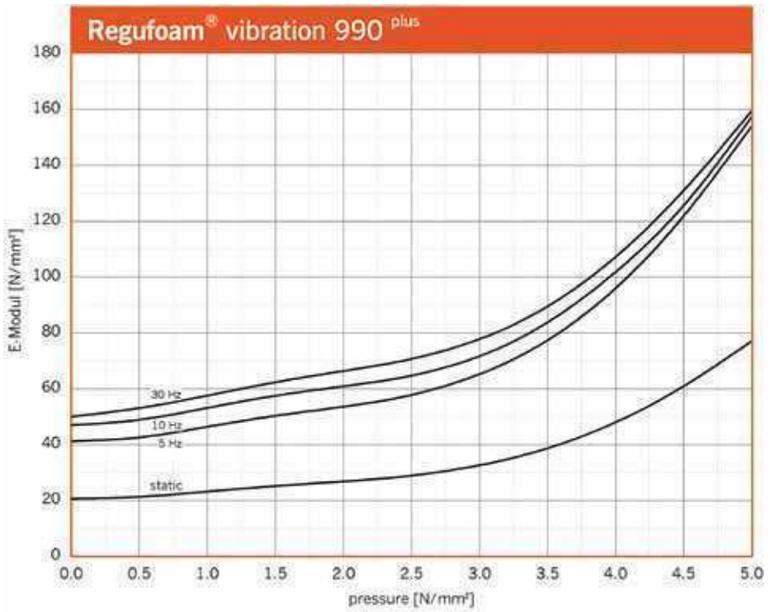


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.10 mm. Dimensions of specimens 125 mm x 125 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

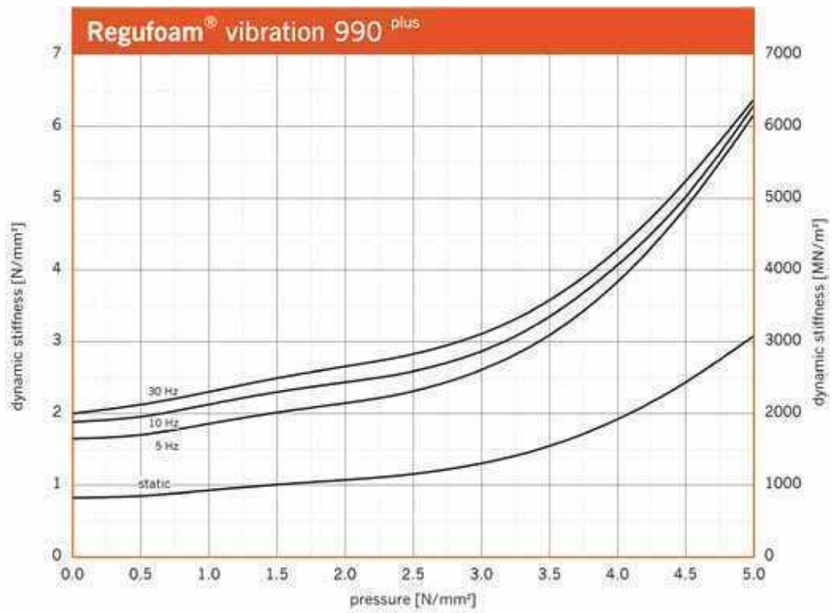
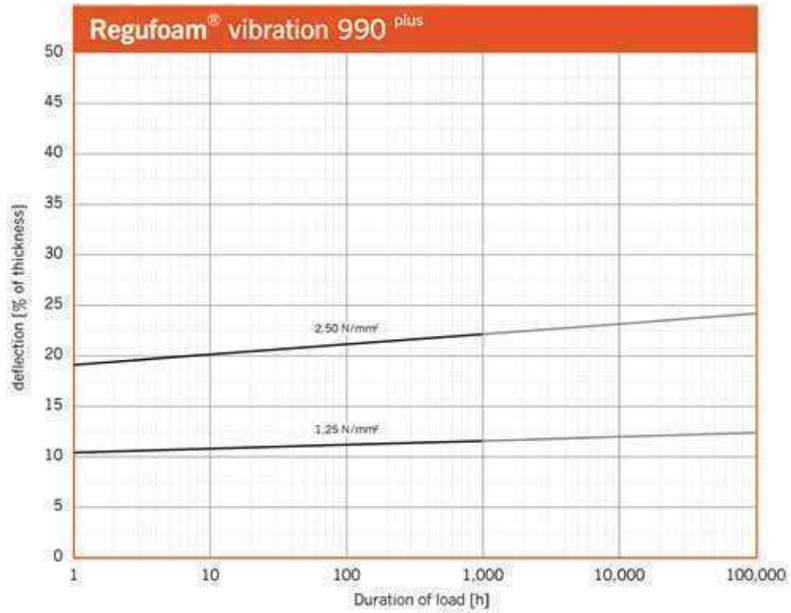


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load an and amplitude of ± 0.10 mm. Dimensions of specimens 125 mm x 125 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Regufoam® vibration 990 plus 2.12

Long-Term Creep Test



Dimensions of specimens 125 mm x 125 mm x 50 mm

Exclusion of Liability

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