

Forms of delivery

Sheets, ex warehouse

Thickness: 12.5 and 25 mm
Length: 1,500 mm
Width: 1,000 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity

0.220 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings

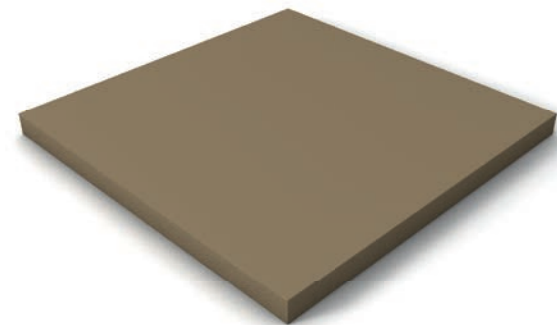
0 to 0.320 N/mm²

Rare, short term peak loads

up to 4.000 N/mm²

Certification

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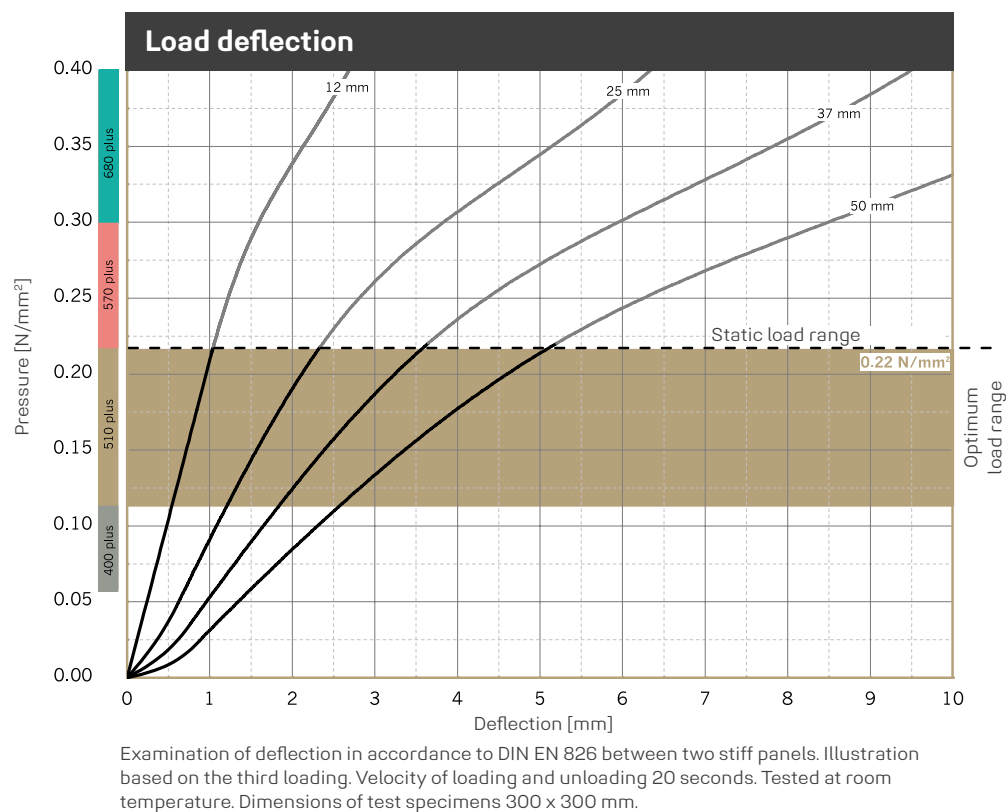
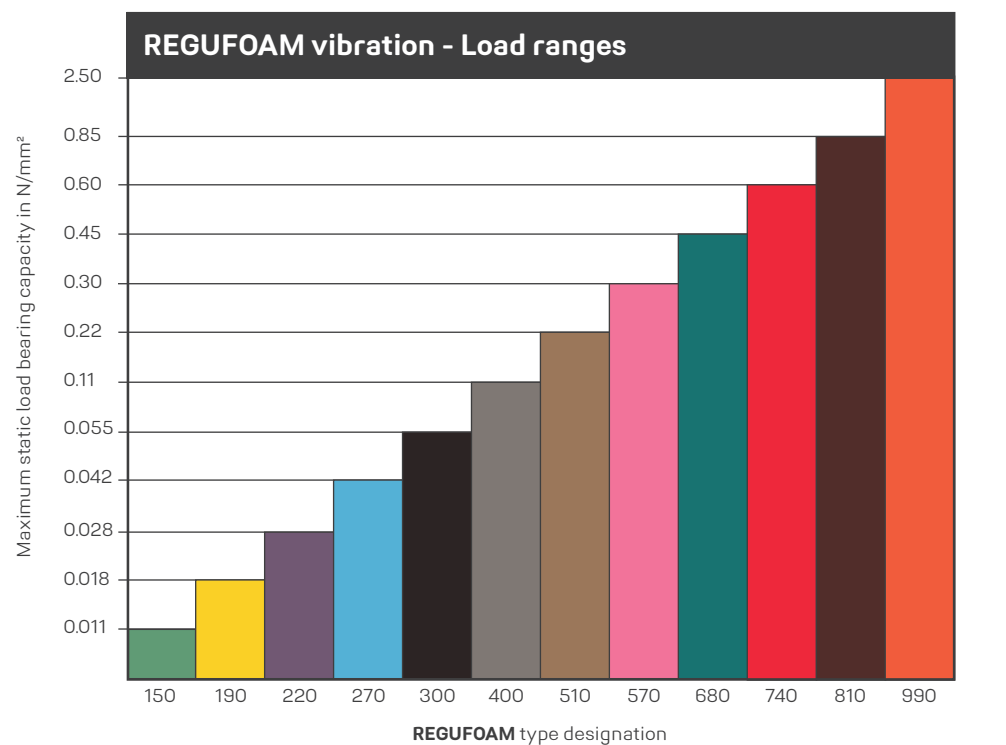


REGUFOAM vibration 510plus
is Cradle to Cradle Certified®
at the Bronze level.

Physical property	Norm	Result	Comment
Static modulus of elasticity	Based on EN 826	1.1 - 1.7 N/mm ²	Tangential modulus, see figure "modulus of elasticity"
Dynamic modulus of elasticity	Based on DIN 53513	2.2 - 3.7 N/mm ²	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/mm ²	
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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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



REGUFOAM VIBRATION 510PLUS



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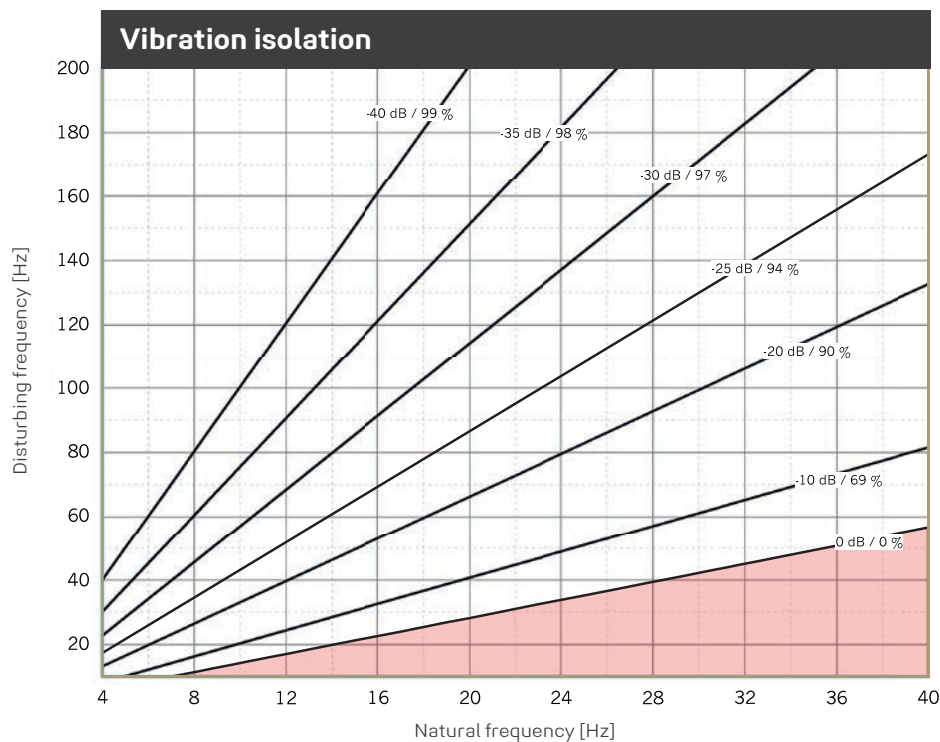
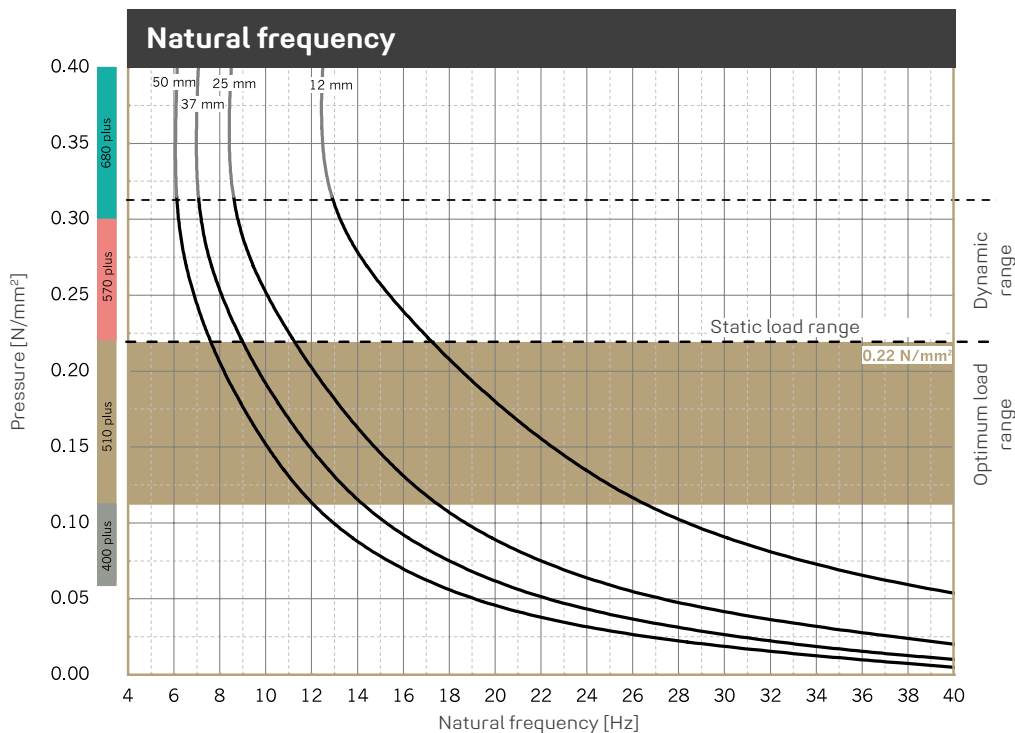
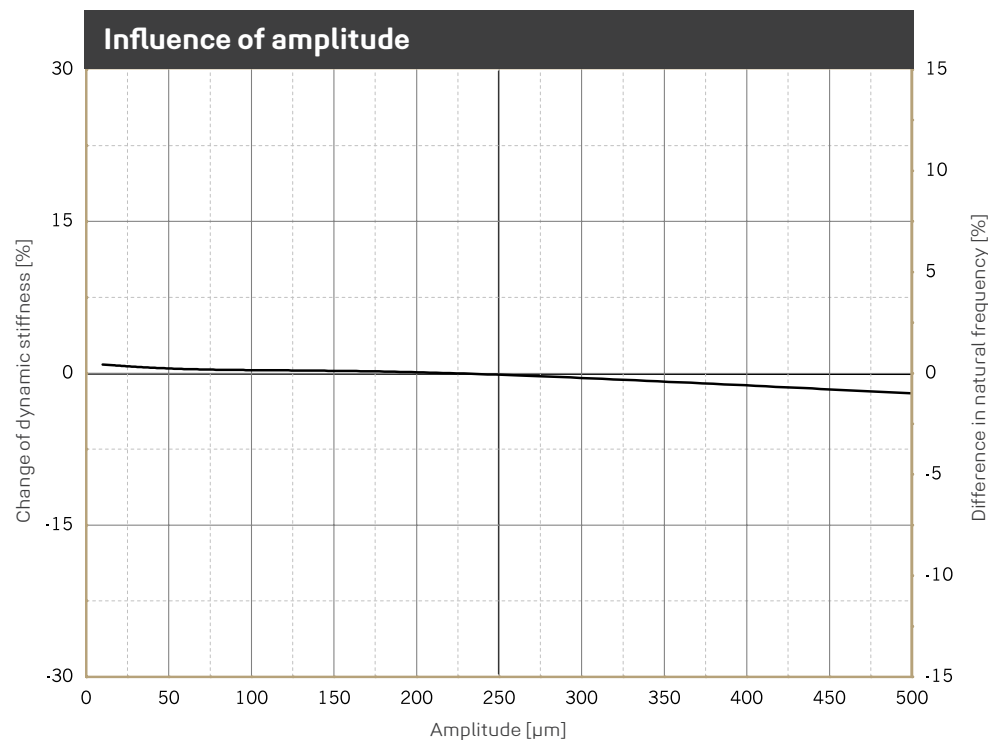


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 510plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

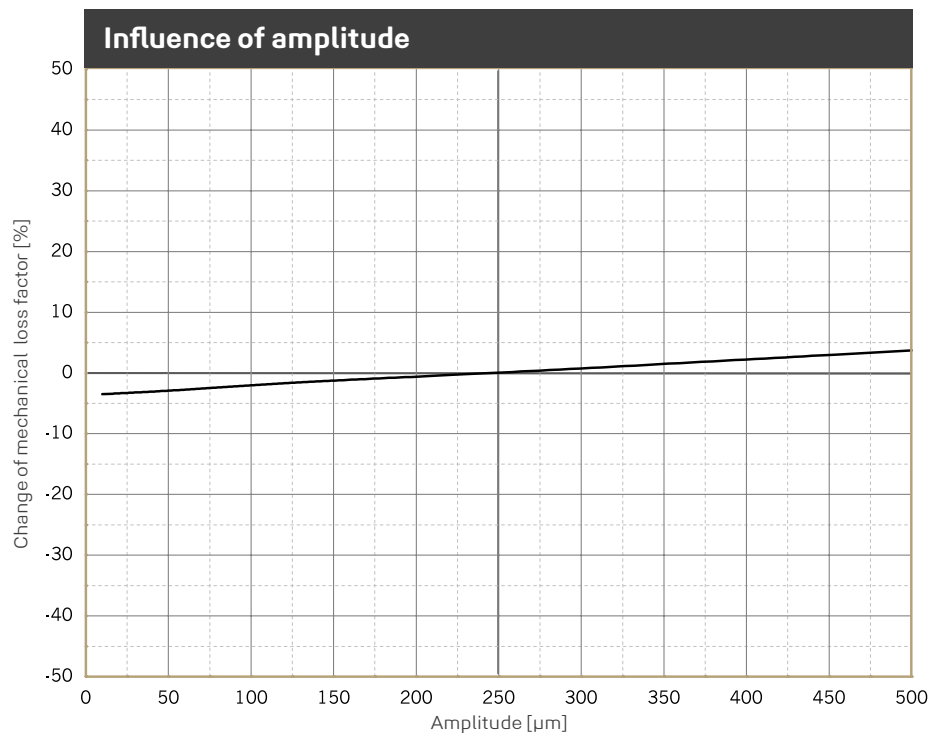


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 510plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

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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 0.220 N/mm², dimensions of the specimens 300 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.220 N/mm², dimensions of the specimens 300 x 300 x 25 mm.

REGUFOAM VIBRATION 510PLUS

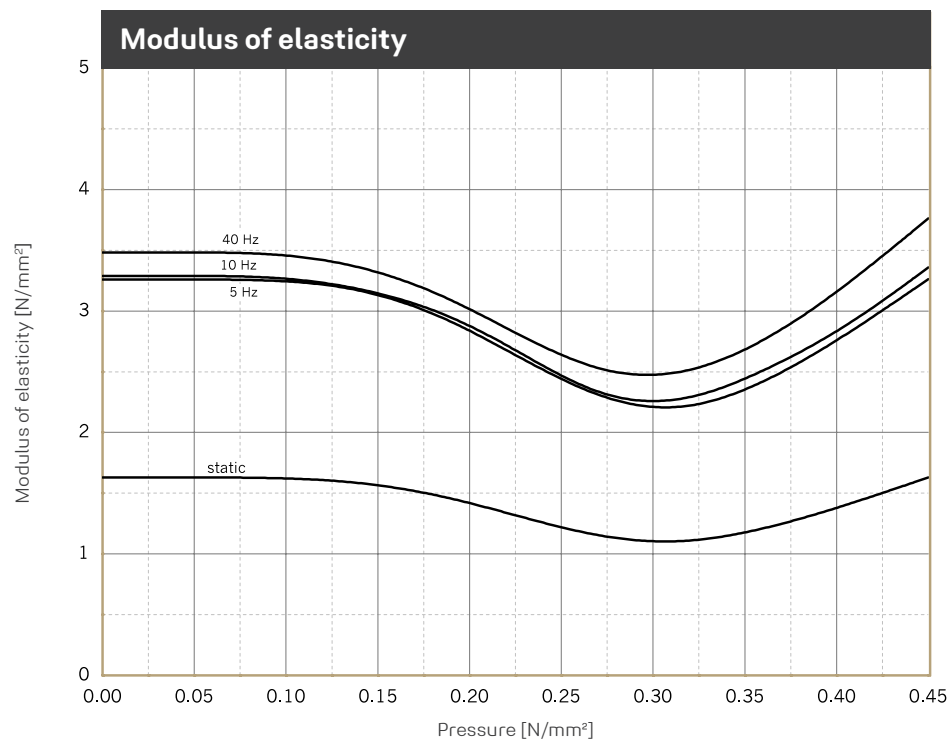


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

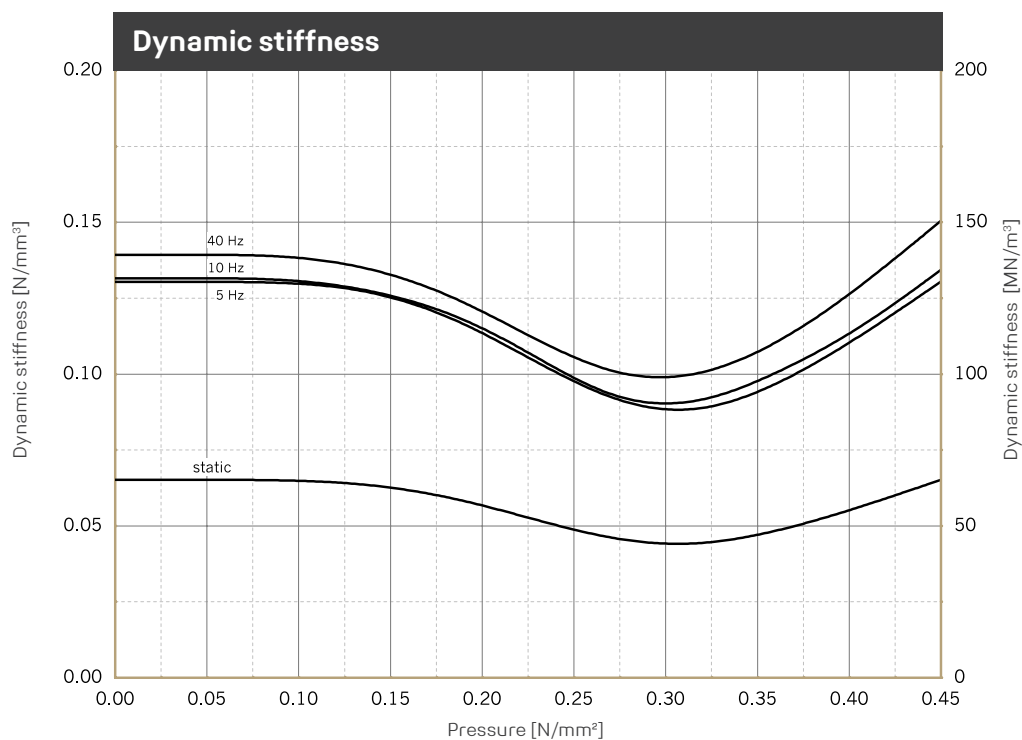
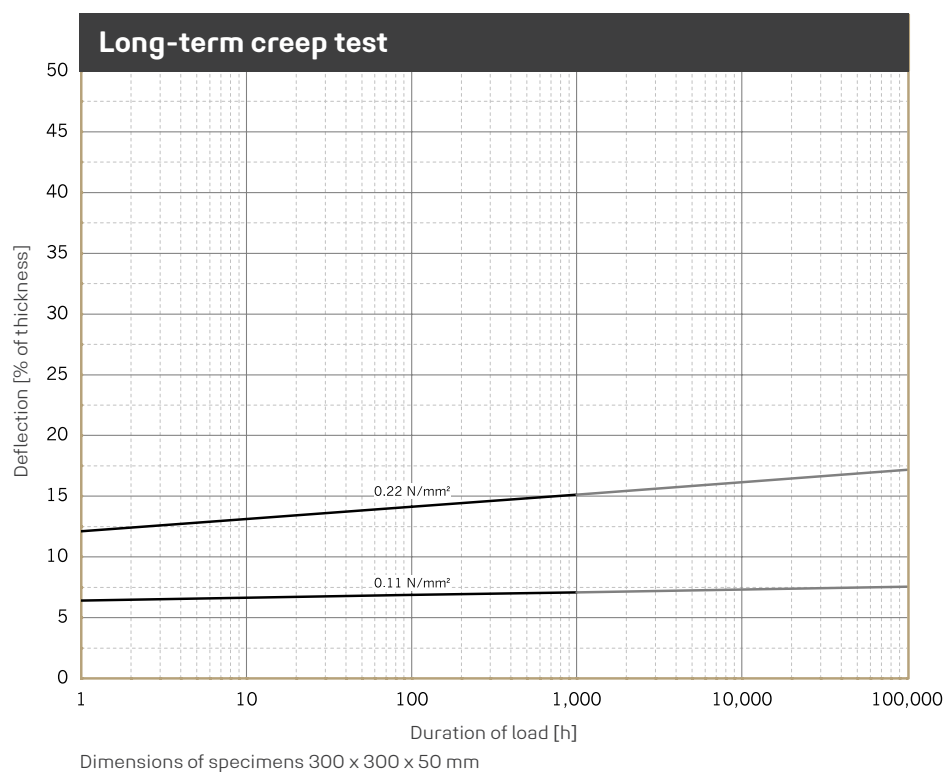


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

REGUFOAM VIBRATION 510PLUS



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Forms of delivery

Sheets, ex warehouse

Thickness: 12.5 and 25 mm
Length: 1,500 mm
Width: 1,000 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity
0.300 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings
0 to 0.420 N/mm²

Rare, short term peak loads
up to 4.500 N/mm²

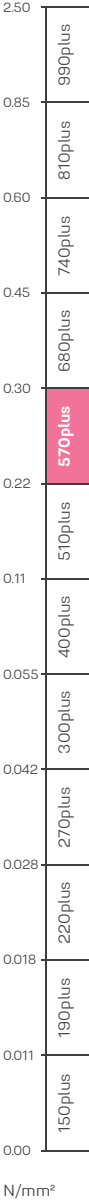
Certification

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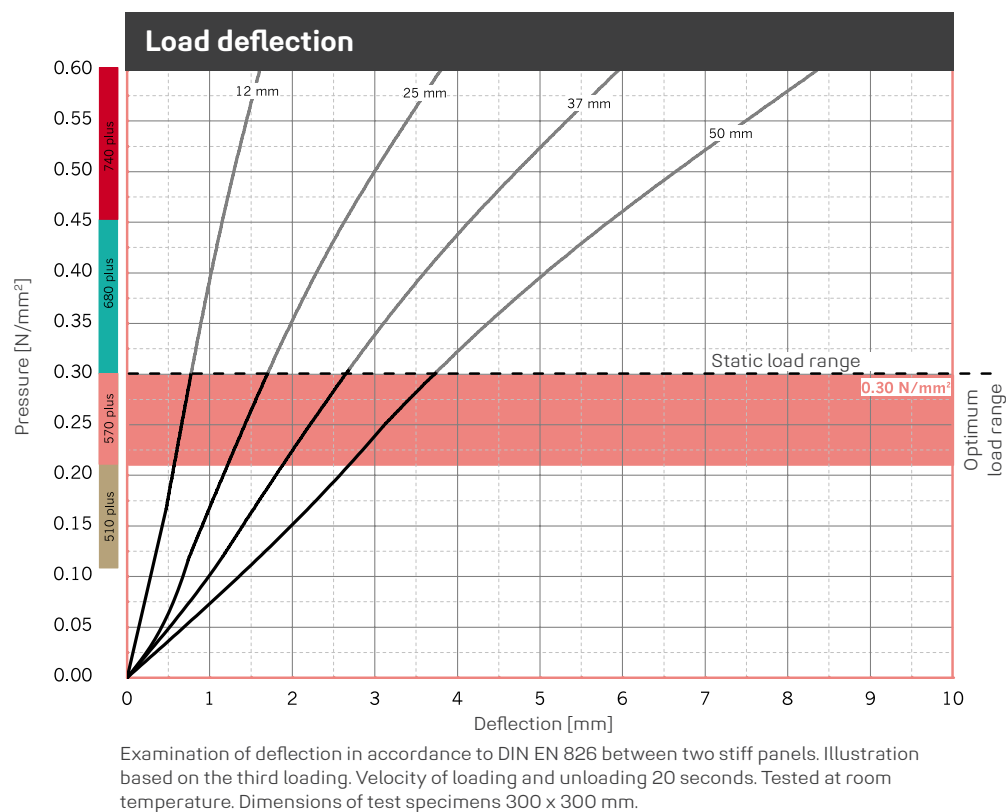
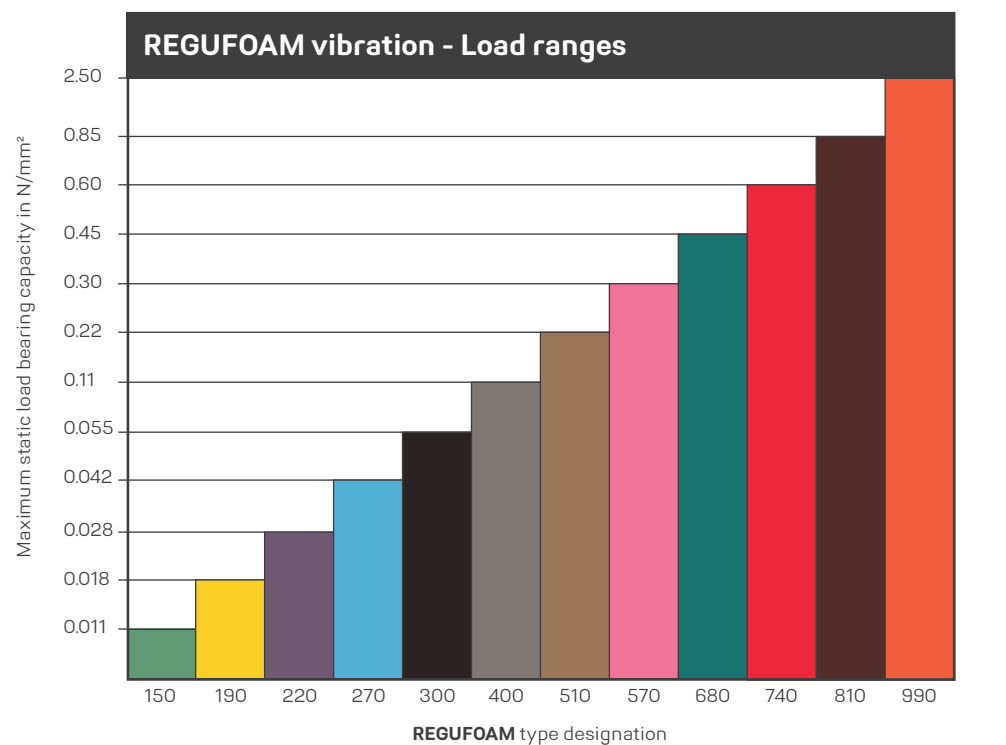
REGUFOAM vibration 570plus
is Cradle to Cradle Certified®
at the Bronze level.

Physical property	Norm	Result	Comment
Static modulus of elasticity	Based on EN 826	2.6 - 2.9 N/mm²	Tangential modulus, see figure "modulus of elasticity"
Dynamic modulus of elasticity	Based on DIN 53513	5.3 - 6.5 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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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

REGUFOAM VIBRATION 570PLUS



REGUFOAM VIBRATION 570PLUS

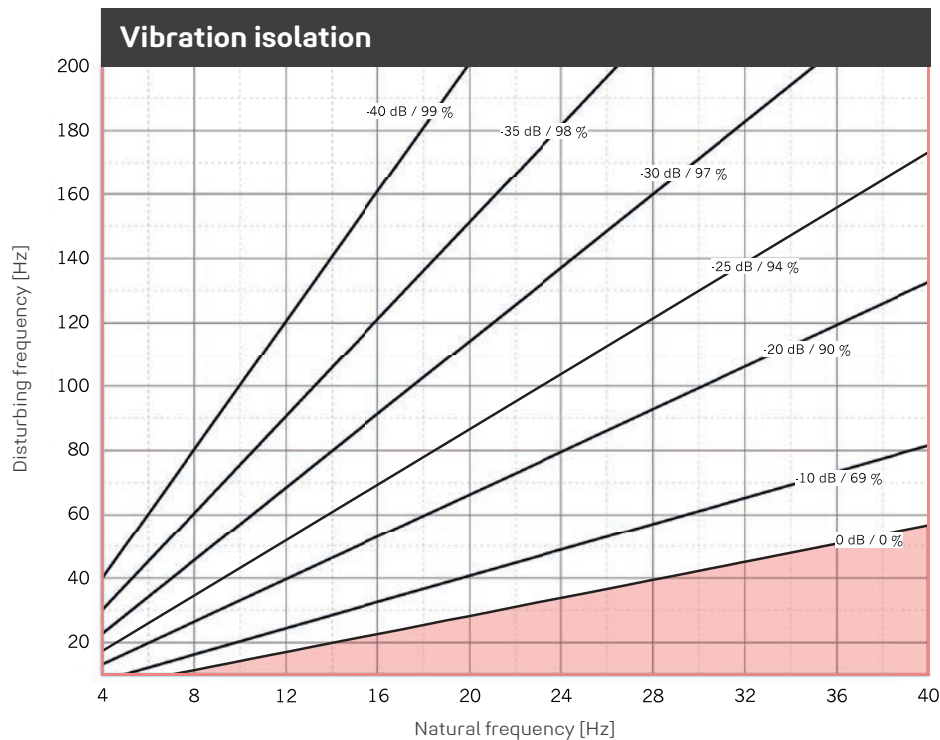
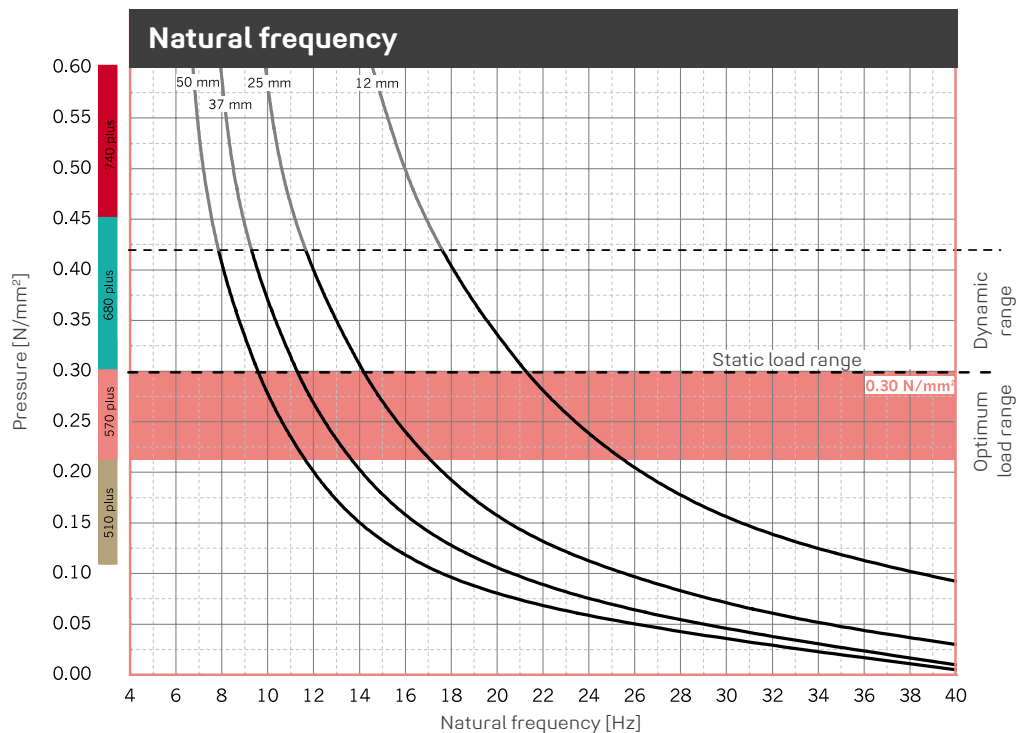
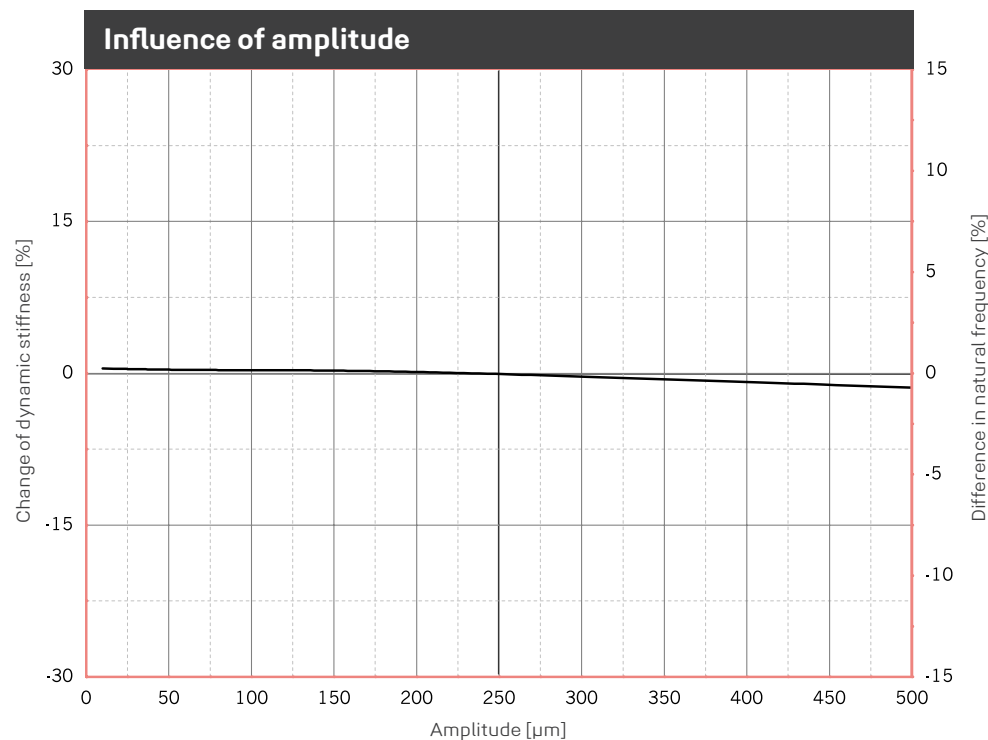


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 570plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

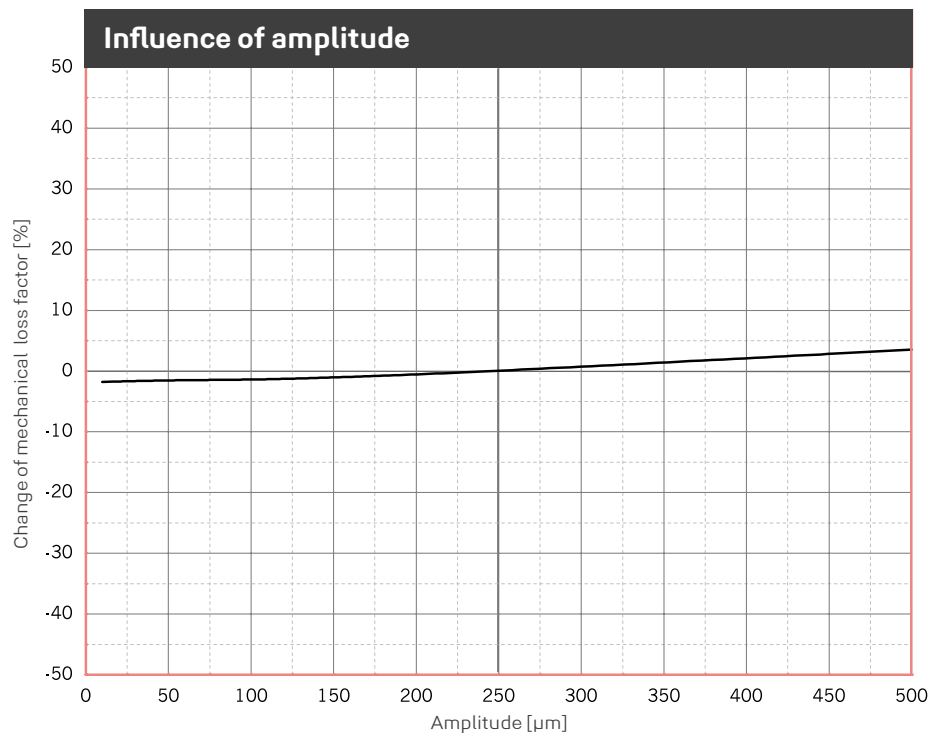


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 570plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

REGUFOAM VIBRATION 570PLUS



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 0.300 N/mm², dimensions of the specimens 300 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.300 N/mm², dimensions of the specimens 300 x 300 x 25 mm.

REGUFOAM VIBRATION 570PLUS

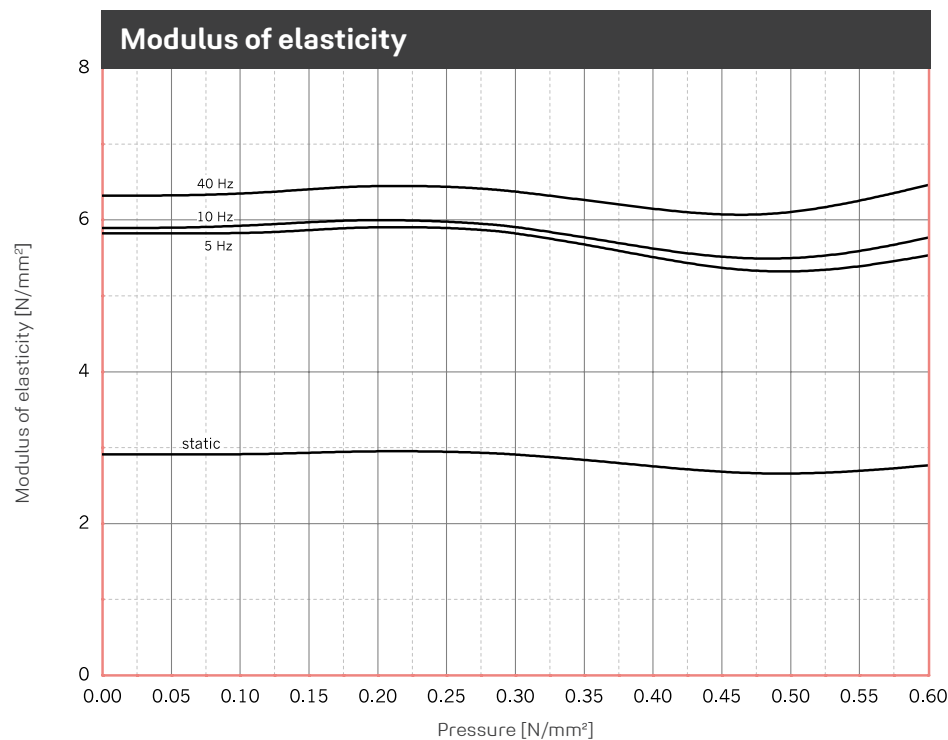


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

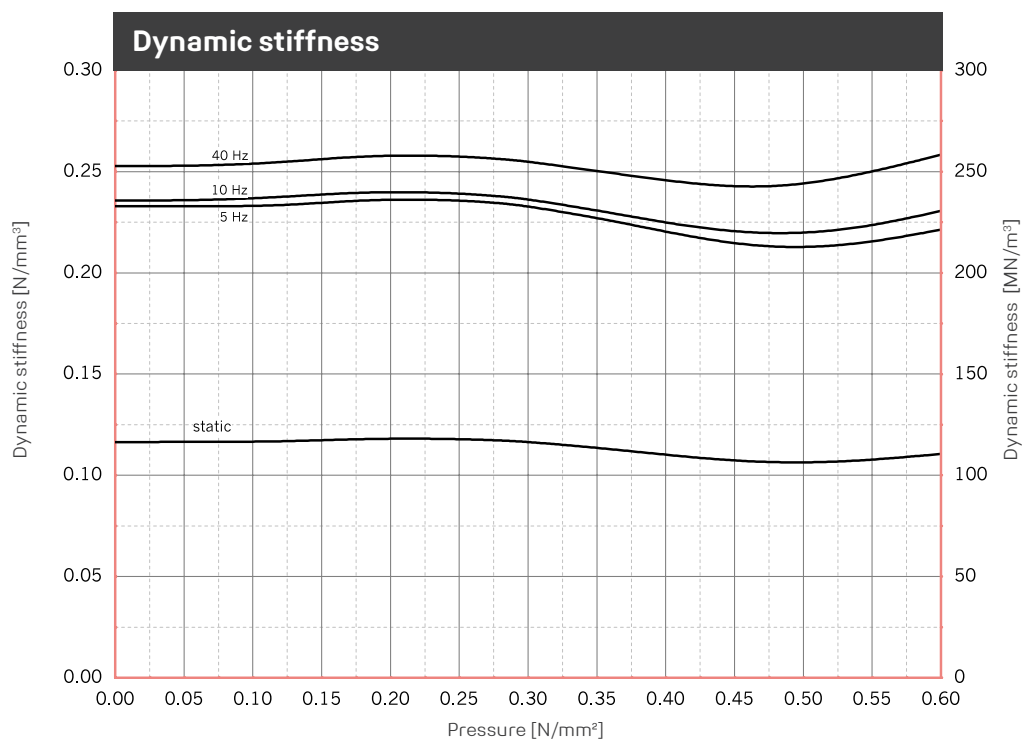
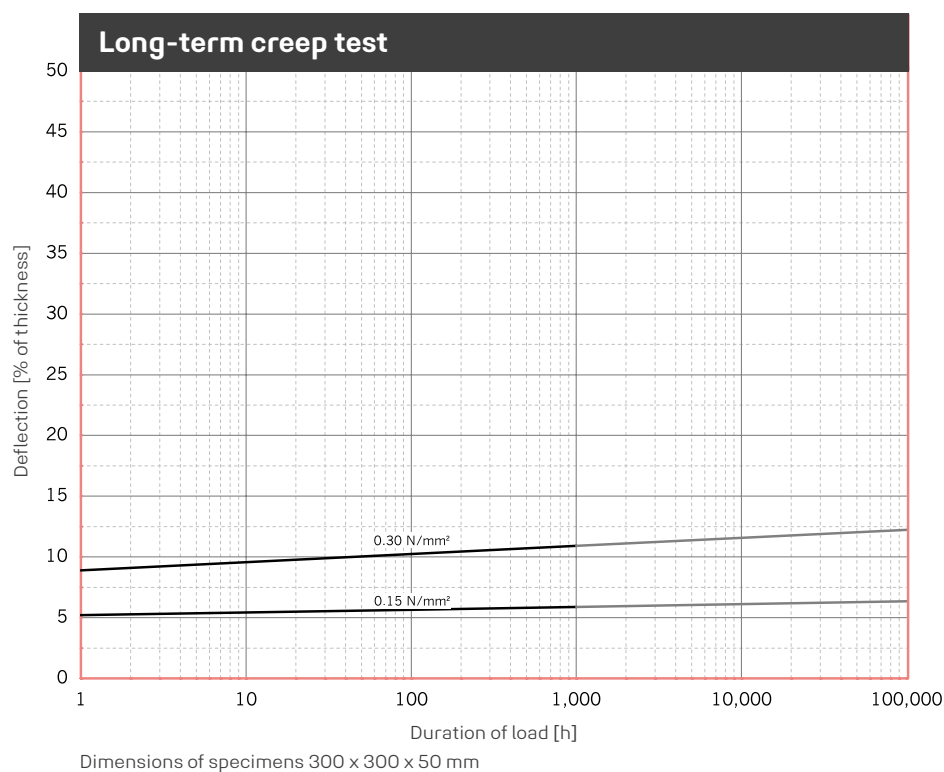


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

250	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
0.00	

N/mm²

REGUFOAM VIBRATION 570PLUS



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Forms of delivery

Sheets, ex warehouse

Thickness: 12.5 and 25 mm
Length: 1,500 mm
Width: 1,000 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity

0.450 N/mm²

Maximum dynamic load bearing capacity

for intermitted loadings

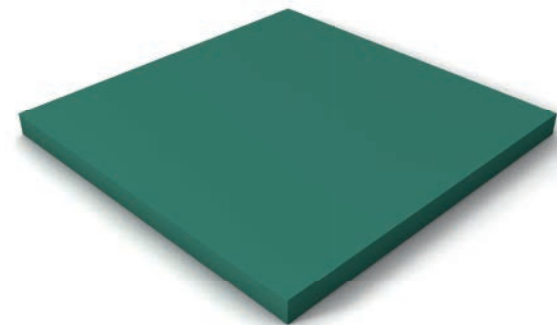
0 to 0.620 N/mm²

Rare, short term peak loads

up to 5.000 N/mm²

Certification

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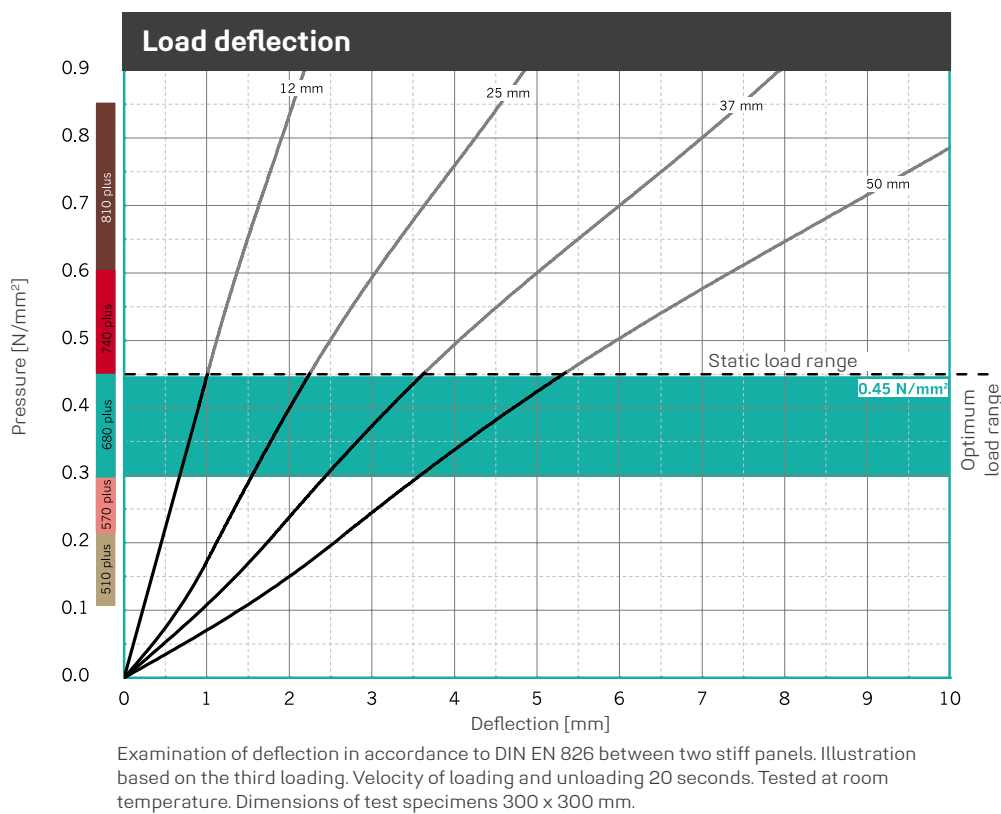
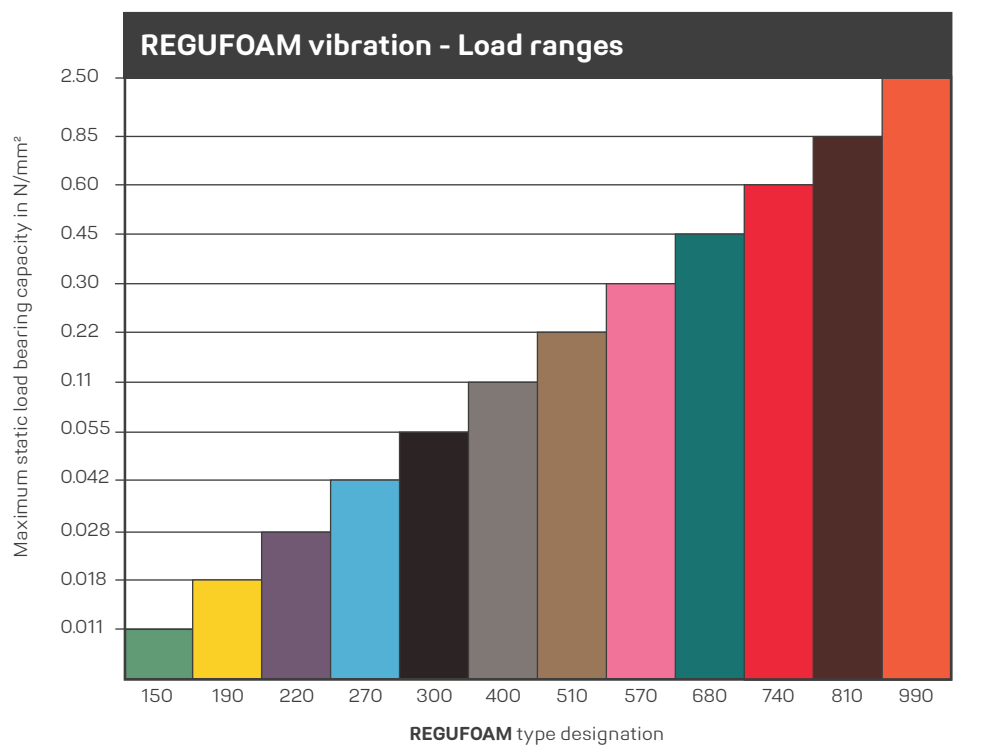
REGUFOAM vibration 680plus is Cradle to Cradle Certified® at the Bronze level.

Physical property	Norm	Result	Comment
Static modulus of elasticity	Based on EN 826	3.8 - 4.1 N/mm²	Tangential modulus, see figure "modulus of elasticity"
Dynamic modulus of elasticity	Based on DIN 53513	7.0 - 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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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

REGUFOAM VIBRATION 680PLUS



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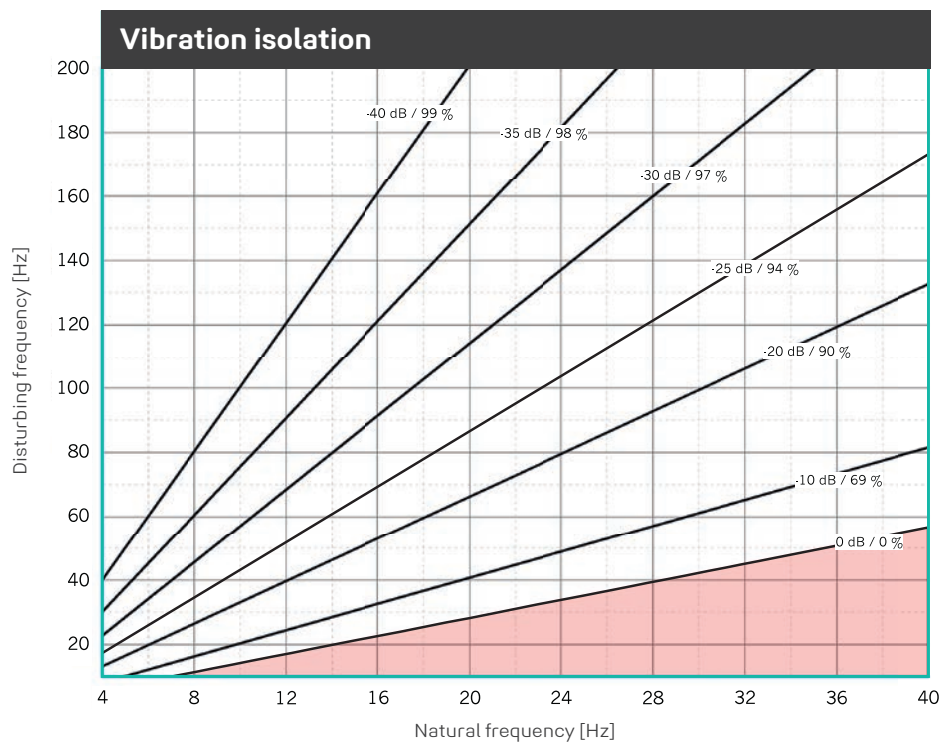
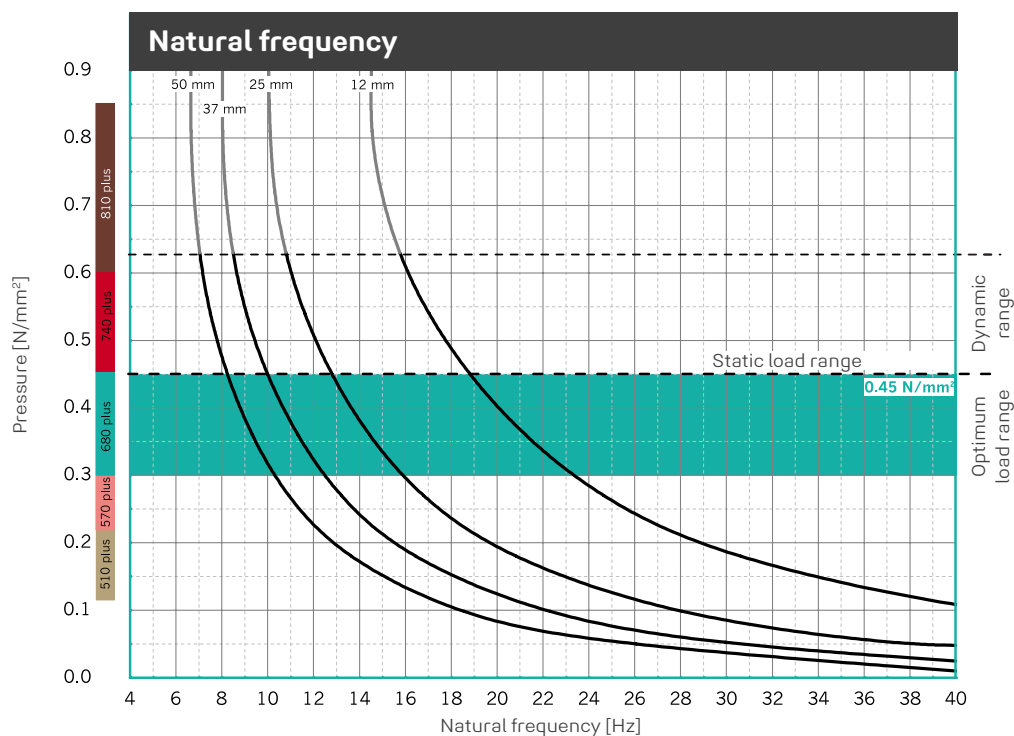
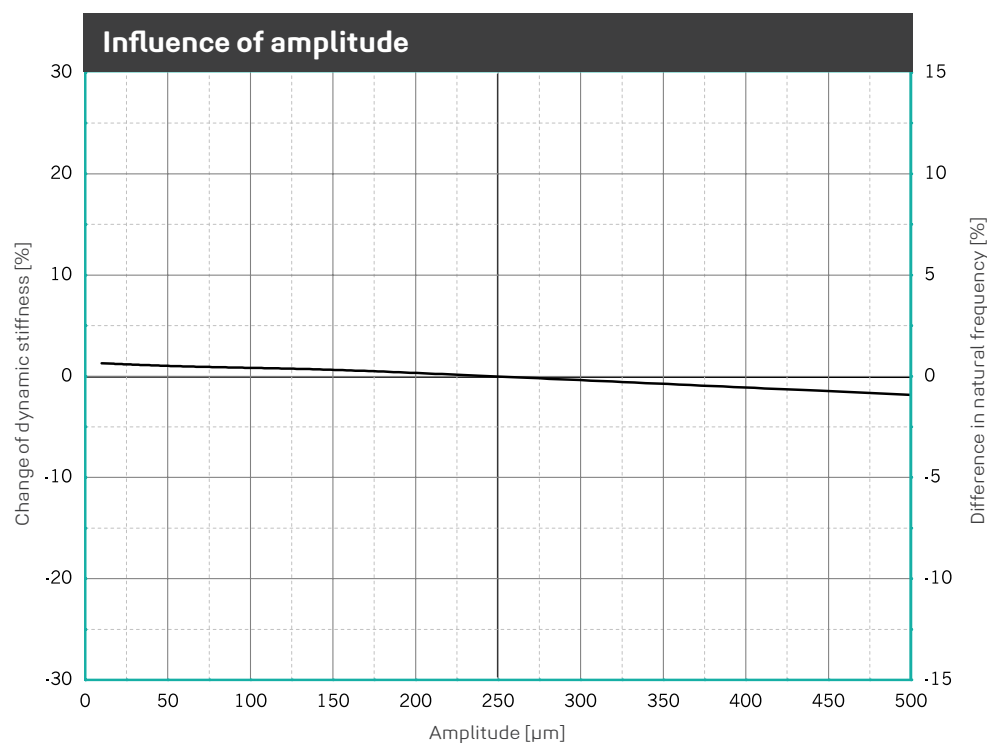


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 680plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

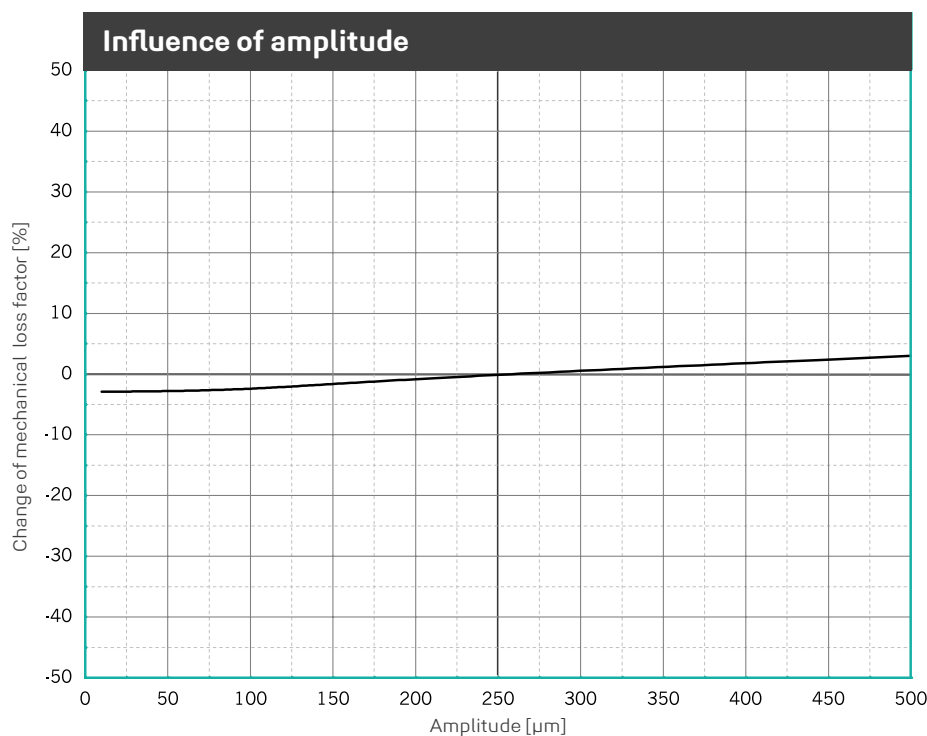


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 680plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

REGUFOAM VIBRATION 680PLUS



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 0.450 N/mm², dimensions of the specimens 300 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.450 N/mm², dimensions of the specimens 300 x 300 x 25 mm.

REGUFOAM VIBRATION 680PLUS

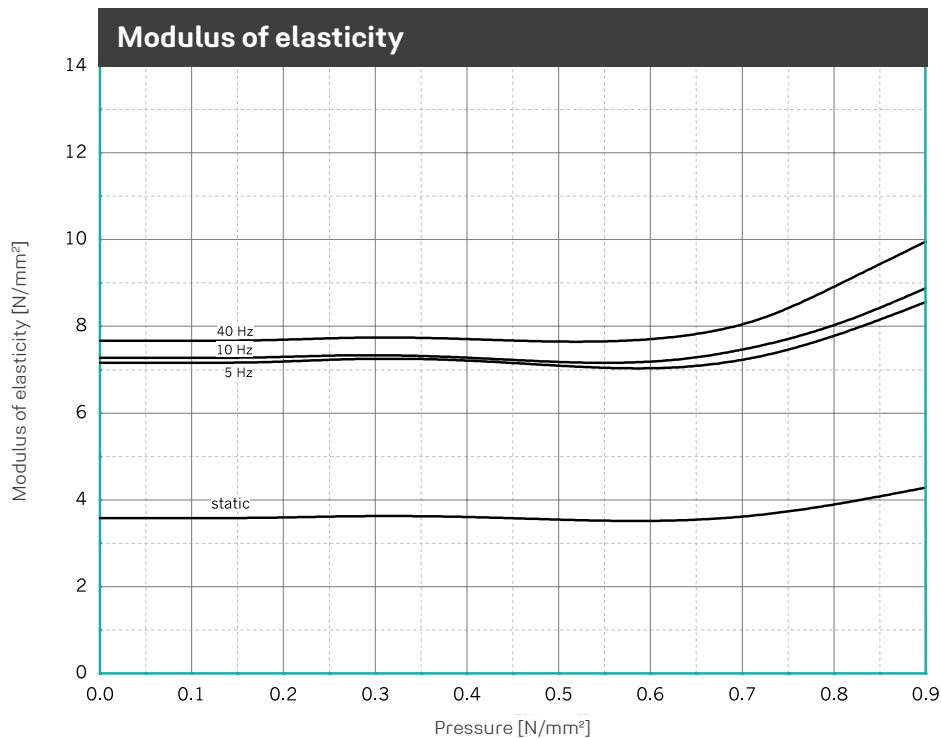


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

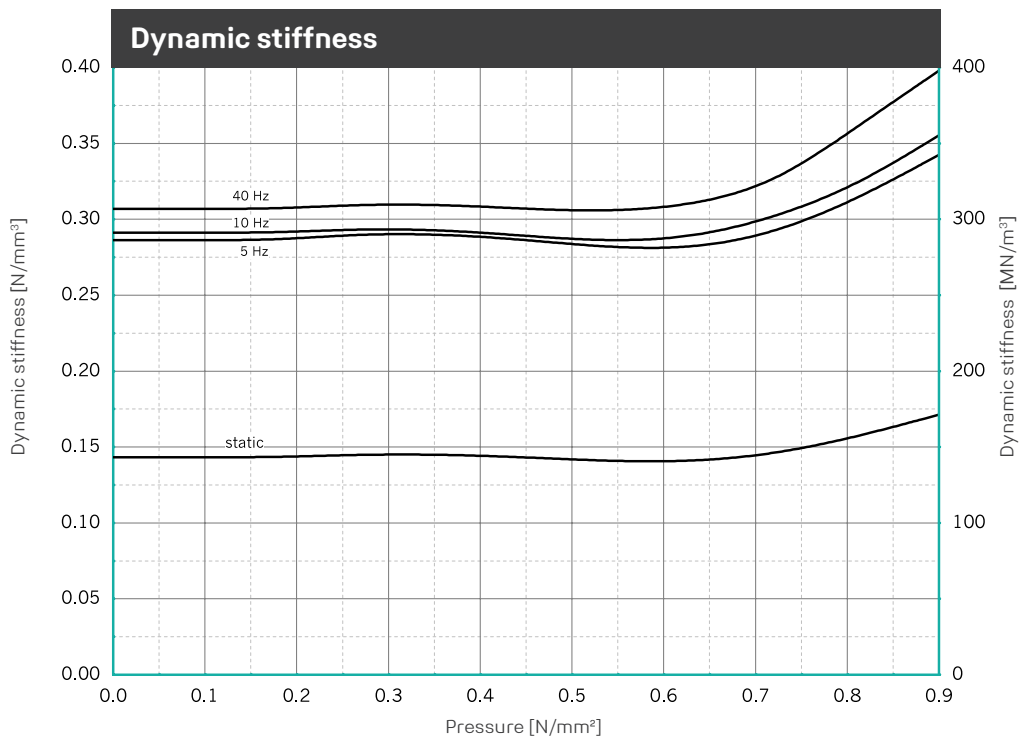
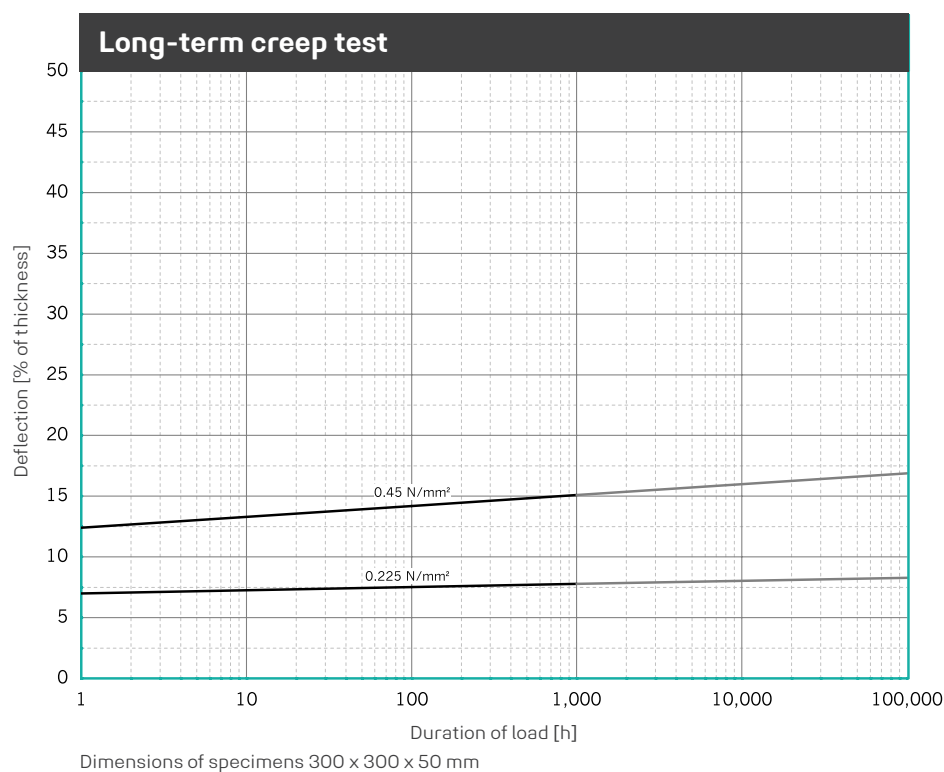


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

250	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
0.00	

N/mm²

REGUFOAM VIBRATION 680PLUS



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Forms of delivery

Sheets, ex warehouse

Thickness: 12.5 and 25 mm
Length: 1,500 mm
Width: 1,000 mm

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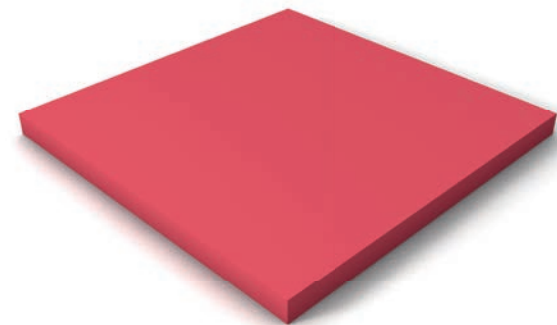
Technical details

Maximum static load bearing capacity
0.600 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings
0 to 0.850 N/mm²

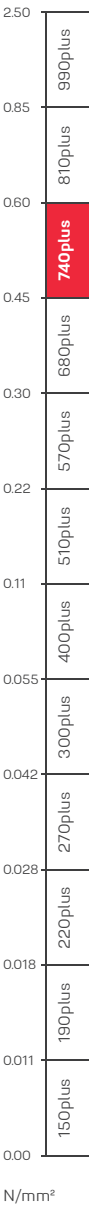
Rare, short term peak loads
up to 6.000 N/mm²

Certification
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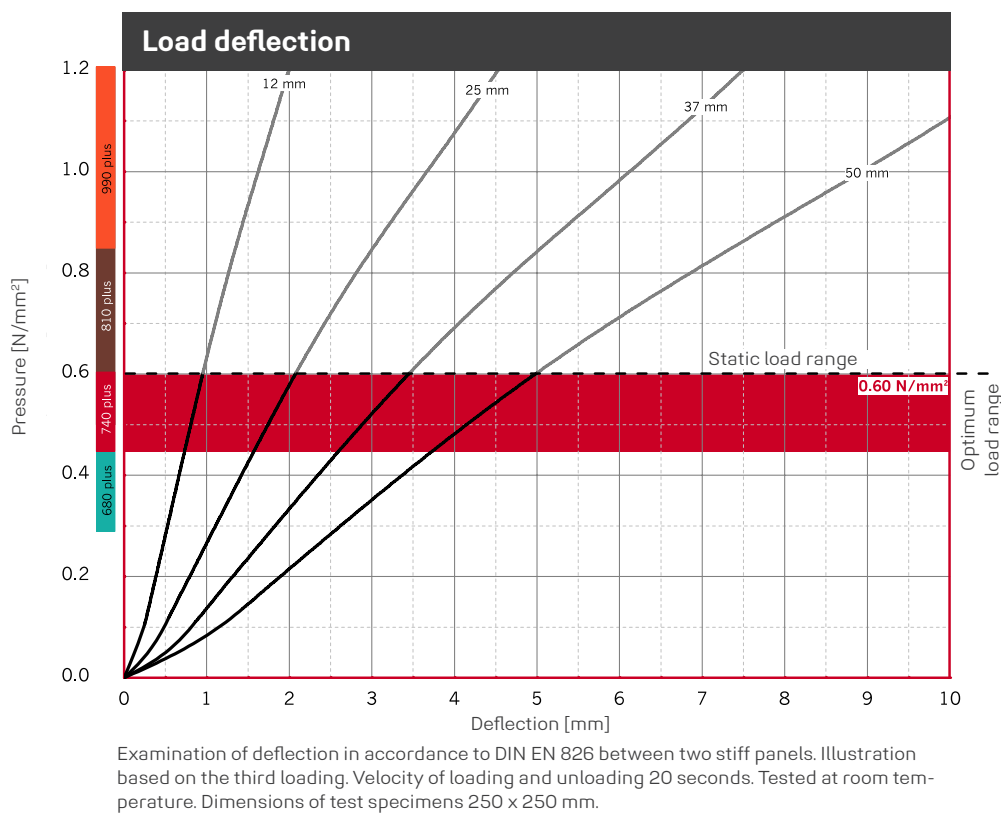
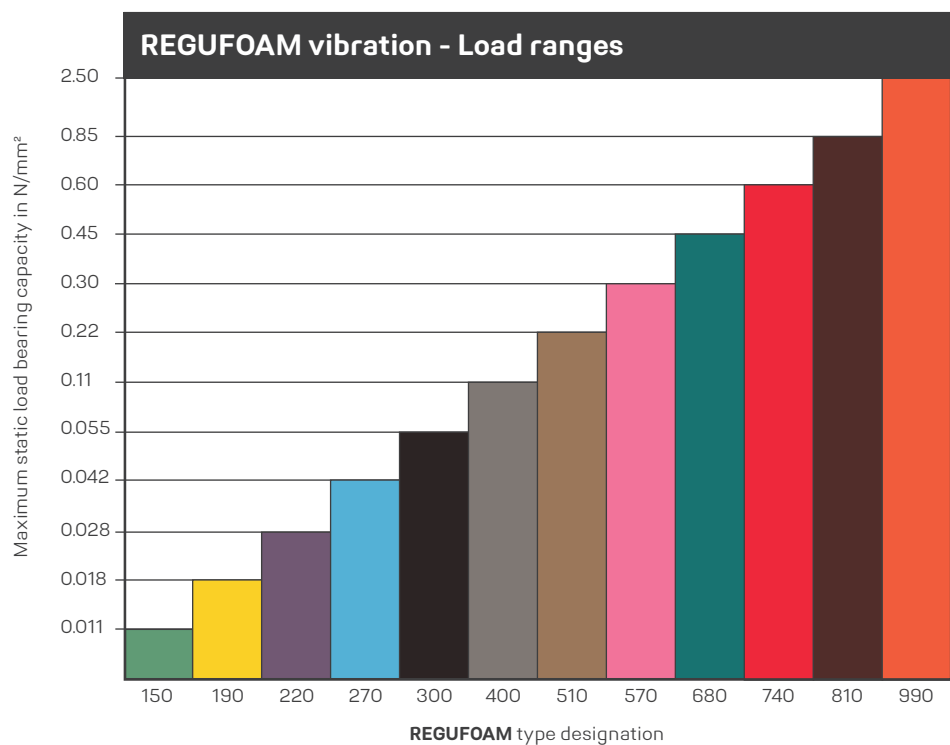


REGUFOAM vibration 740plus is Cradle to Cradle Certified® at the Bronze level.

Physical property	Norm	Result	Comment
Static modulus of elasticity	Based on EN 826	4.3 - 5.9 N/mm ²	Tangential modulus, see figure "modulus of elasticity"
Dynamic modulus of elasticity	Based on DIN 53513	8.9 - 13.0 N/mm ²	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/mm ²	
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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-laboratory	0.6 0.7	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	1 050 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



REGUFOAM VIBRATION 740PLUS



REGUFOAM VIBRATION 740PLUS

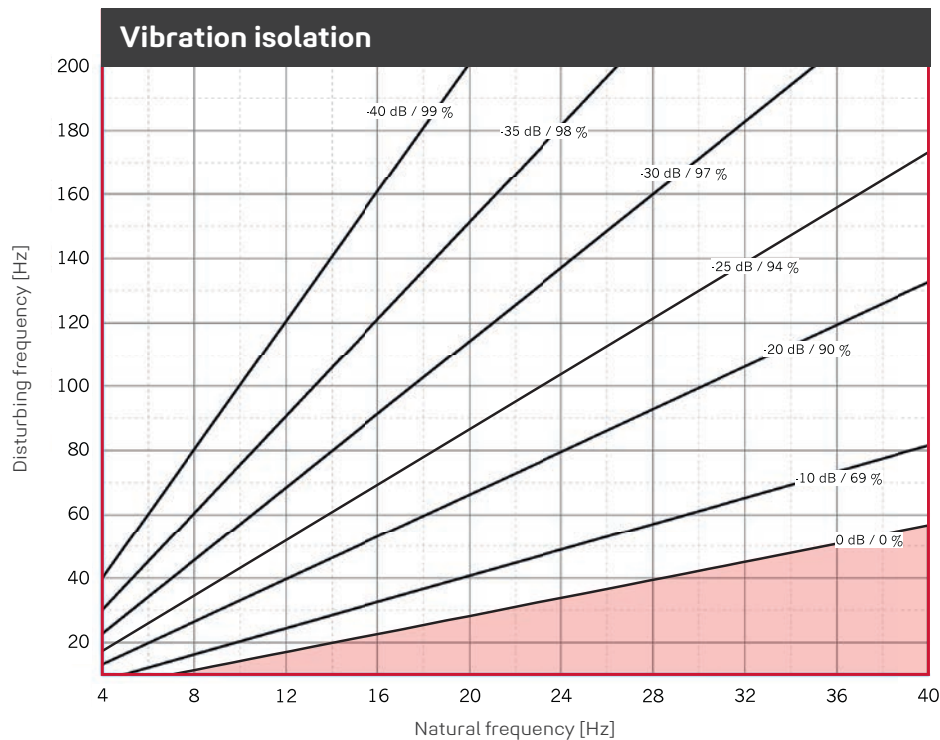
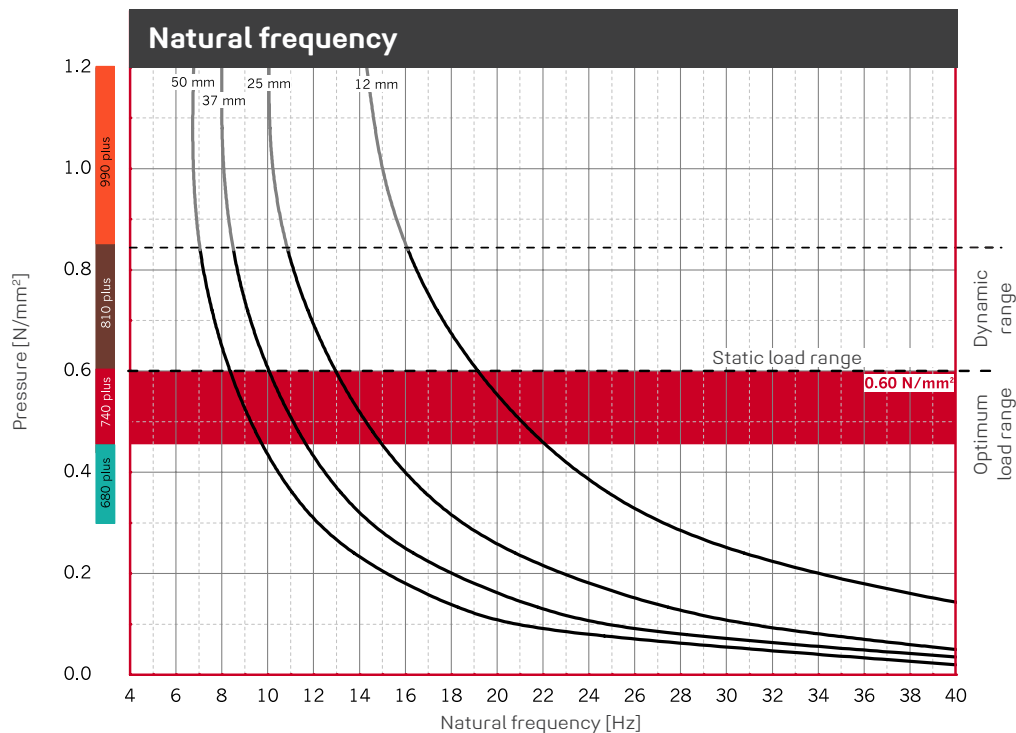
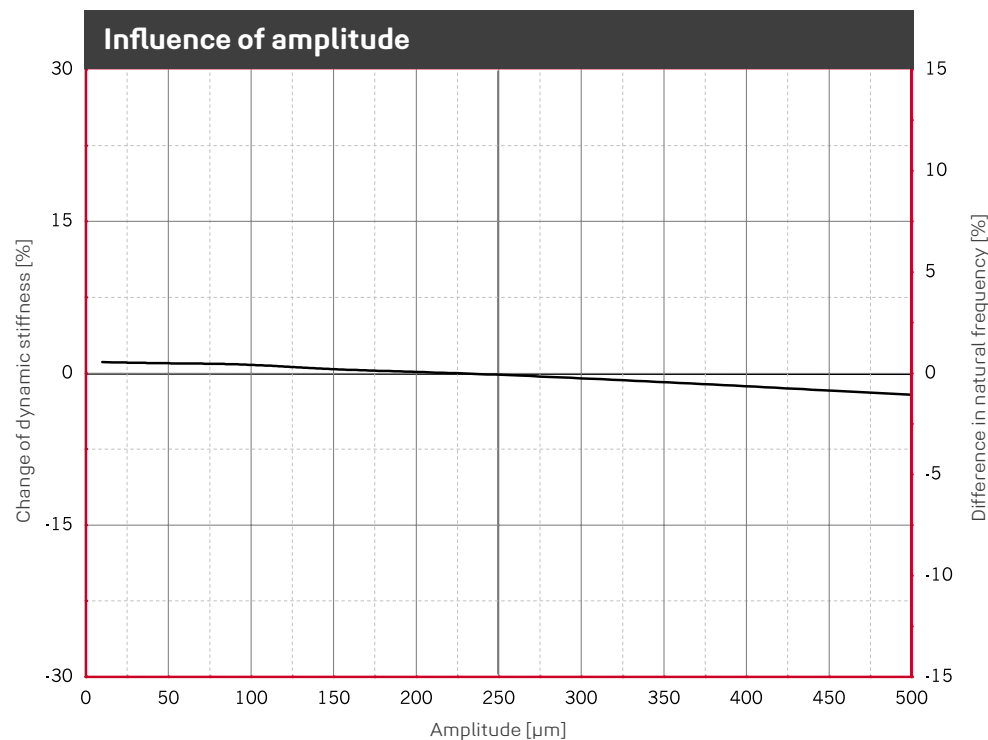


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 740plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

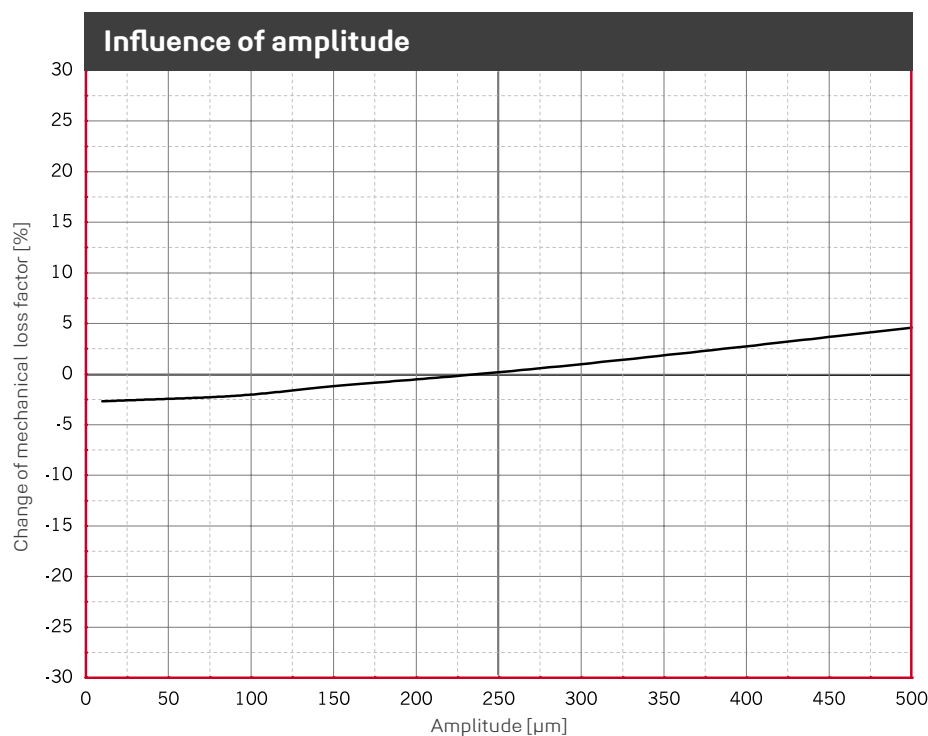


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 740plus** on a rigid base. Dimensions of test specimens 250 x 250 mm.

REGUFOAM VIBRATION 740PLUS



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 0.600 N/mm², dimensions of the specimens 250 x 250 x 50 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.600 N/mm², dimensions of the specimens 250 x 250 x 50 mm.

REGUFOAM VIBRATION 740PLUS

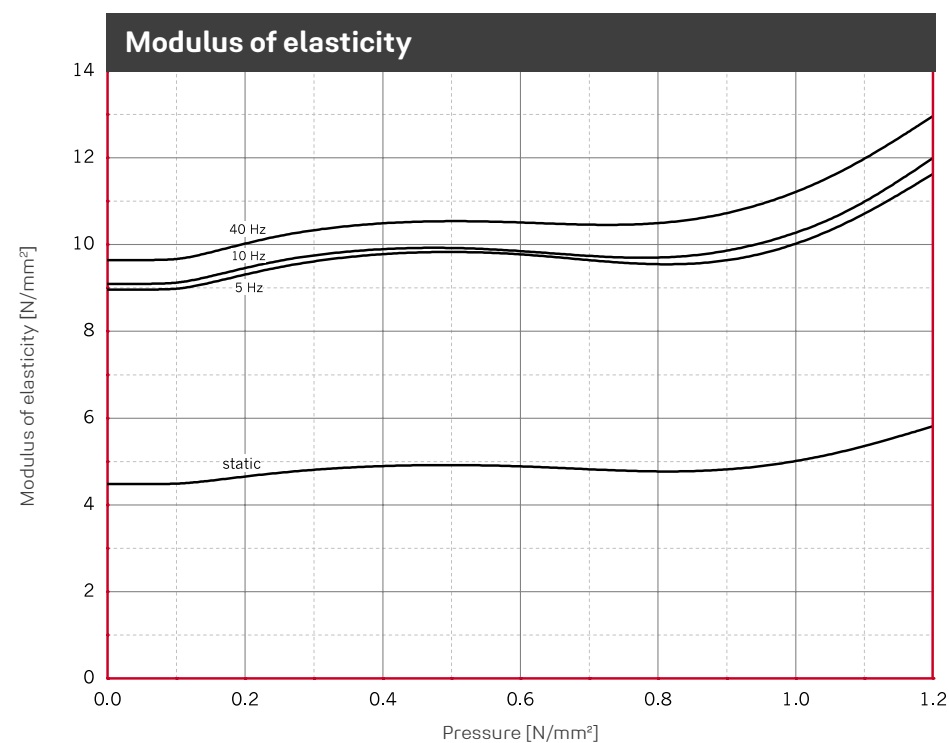


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 250 x 250 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

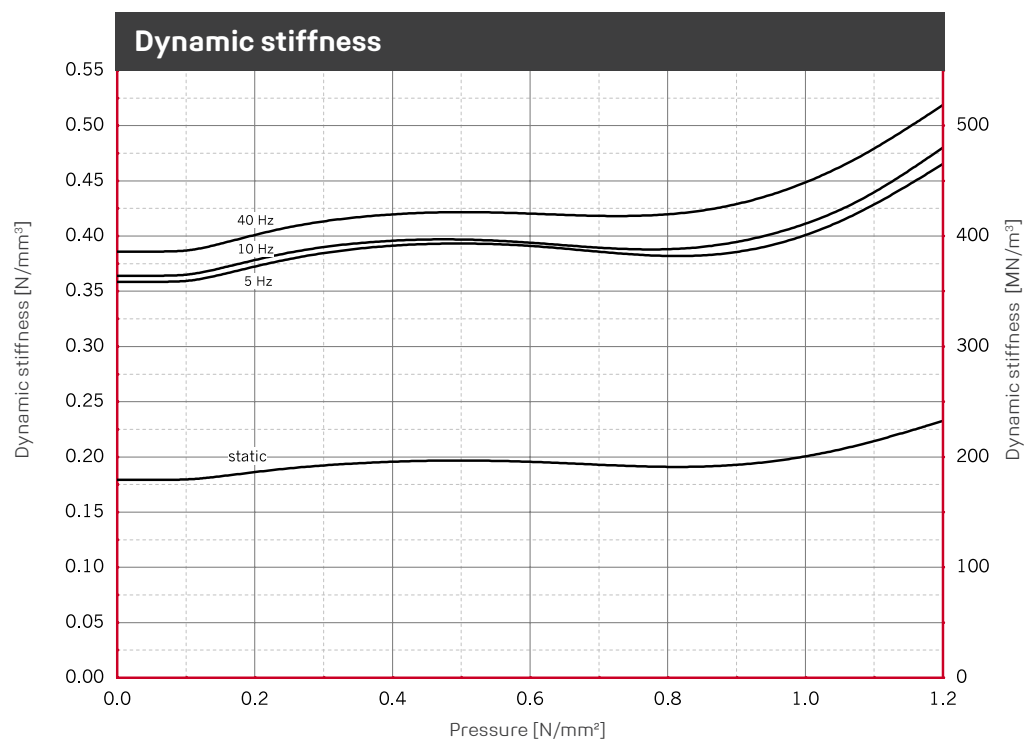
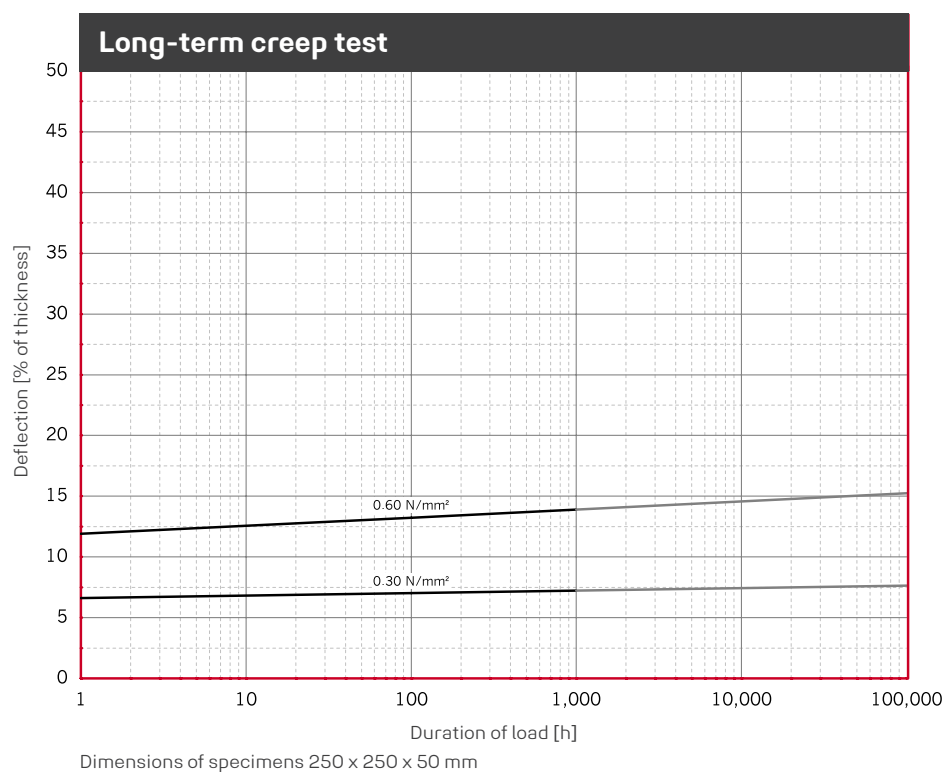


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 250 x 250 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

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
0.00	

N/mm²

REGUFOAM VIBRATION 740PLUS



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Forms of delivery

Sheets, ex warehouse

Thickness: 12.5 and 25 mm
Length: 1,500 mm
Width: 1,000 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

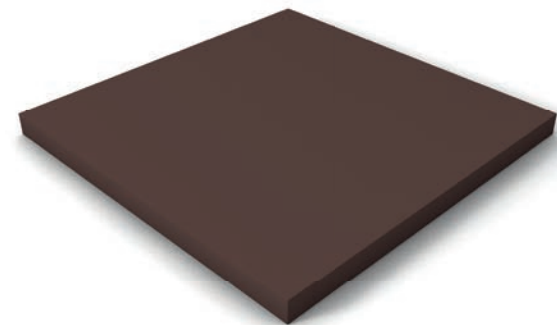
Maximum static load bearing capacity
0.850 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings
0 to 1.200 N/mm²

Rare, short term peak loads
up to 7.000 N/mm²

Certification

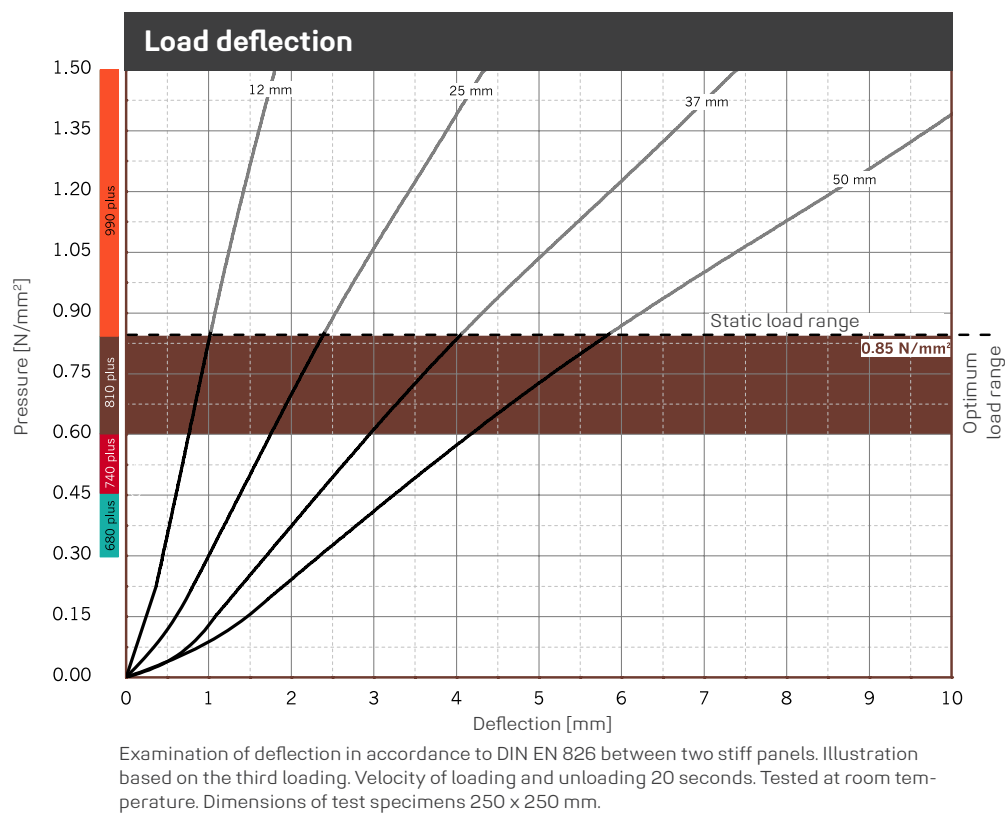
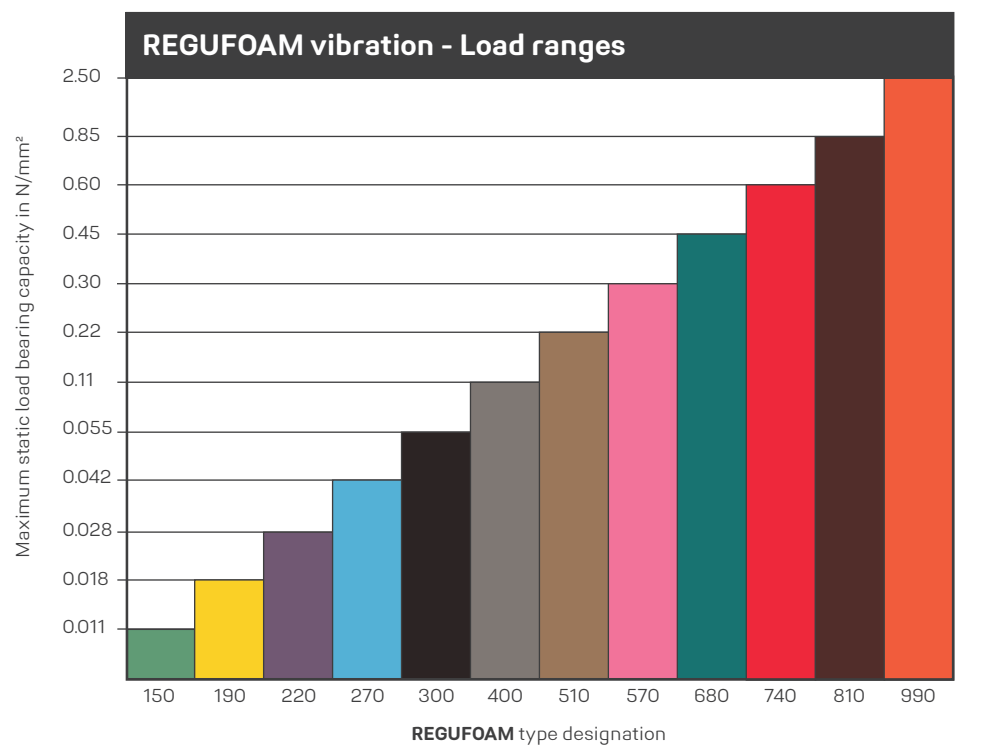
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REGUFOAM vibration 810plus
is Cradle to Cradle Certified®
at the Bronze level.

Physical property	Norm	Result	Comment
Static modulus of elasticity	Based on EN 826	5.4 - 8.0 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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-laboratory	0.6 0.75	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	1 241 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

REGUFOAM VIBRATION 810PLUS



REGUFOAM VIBRATION 810PLUS

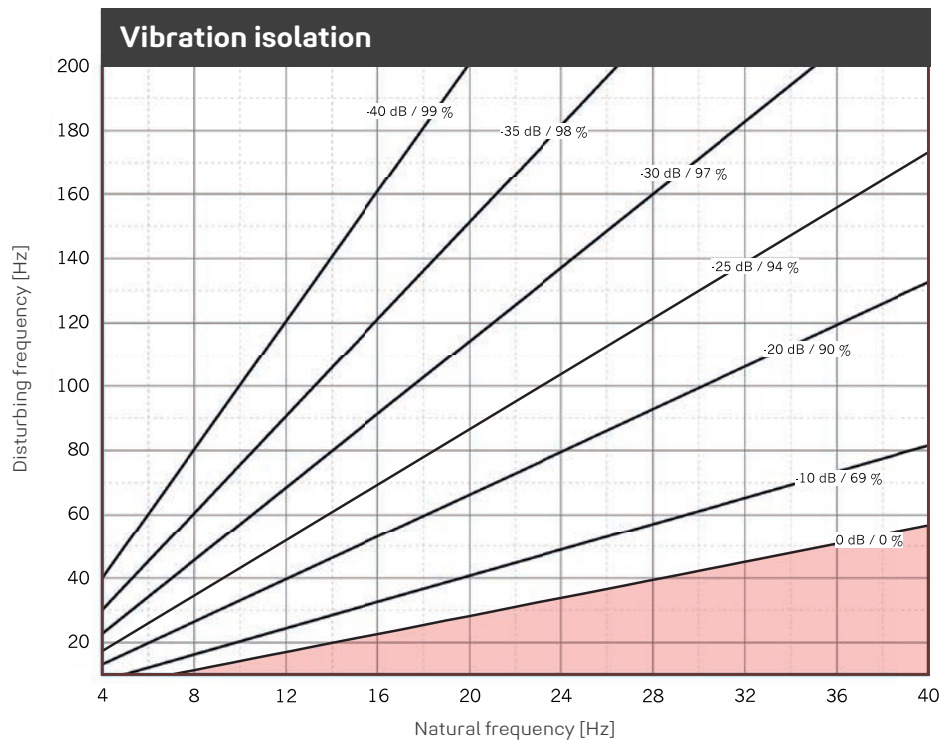
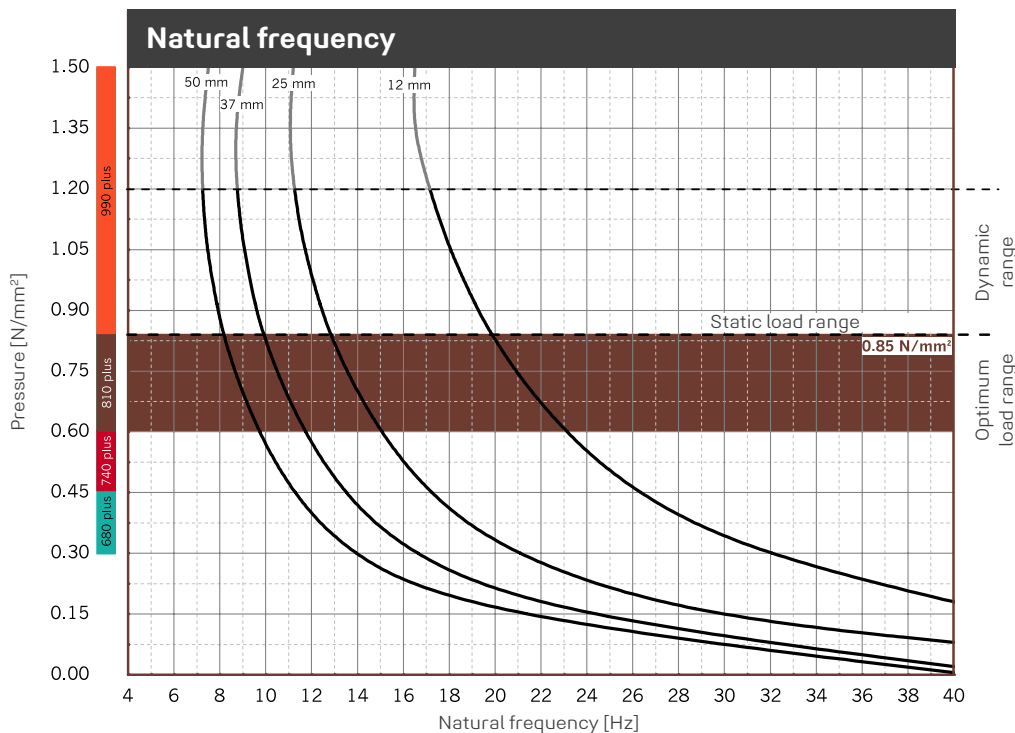


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 810plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

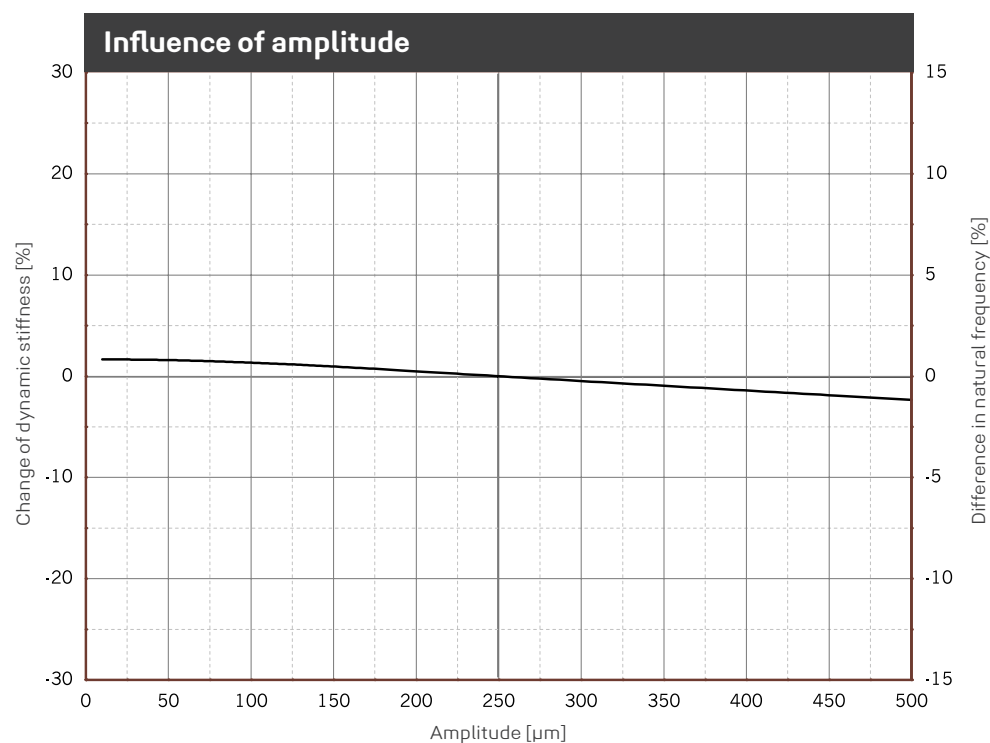


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 810plus** on a rigid base. Dimensions of test specimens 250 x 250 mm.

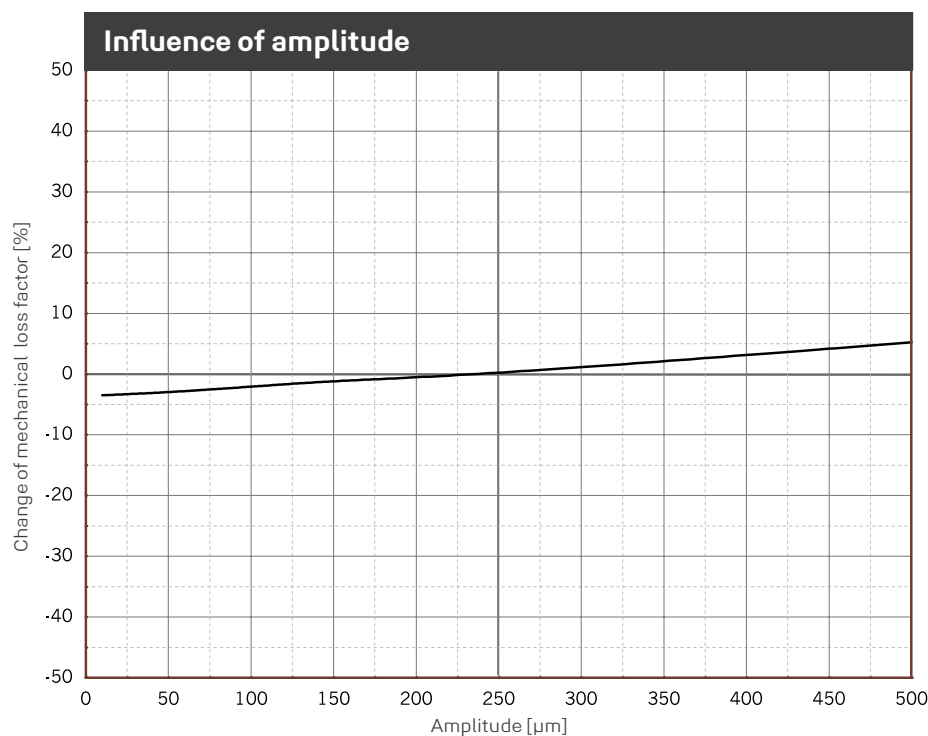
2.50	990plus
0.85	810plus
0.60	740plus
0.45	680plus
0.30	570plus
0.22	510plus
0.11	400plus
0.055	300plus
0.042	270plus
0.028	220plus
0.018	190plus
0.011	150plus
0.00	

N/mm²

REGUFOAM VIBRATION 810PLUS



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 0.850 N/mm², dimensions of the specimens 250 x 250 x 50 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.850 N/mm², dimensions of the specimens 250 x 250 x 25 mm.

REGUFOAM VIBRATION 810PLUS

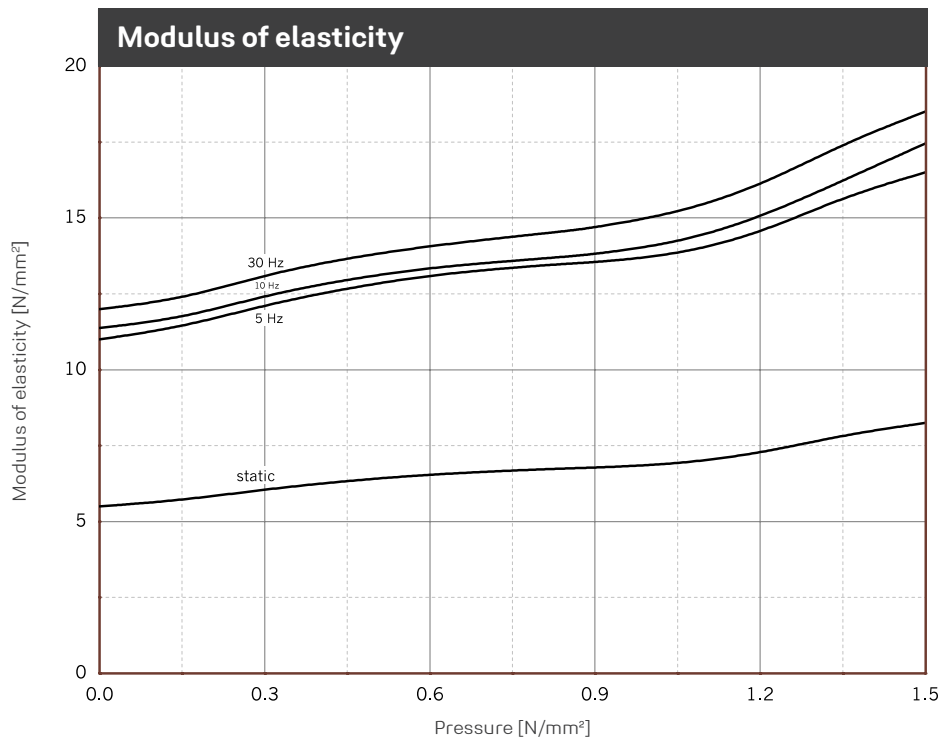


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.10 mm. Dimensions of specimens $250 \times 250 \times 25$ mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance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

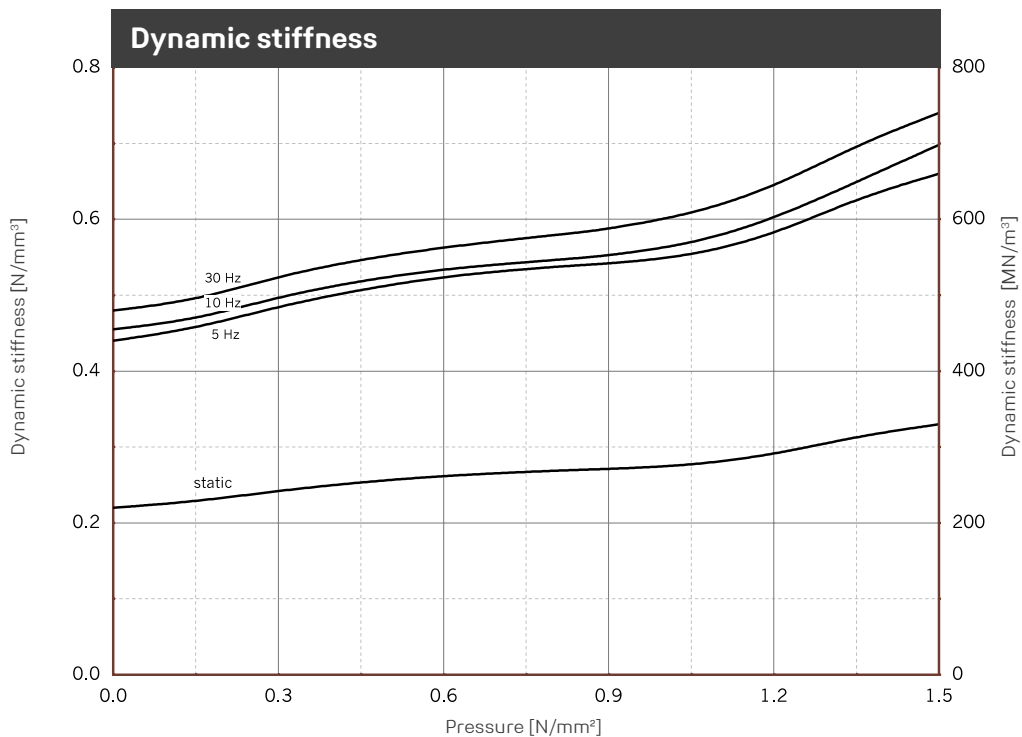
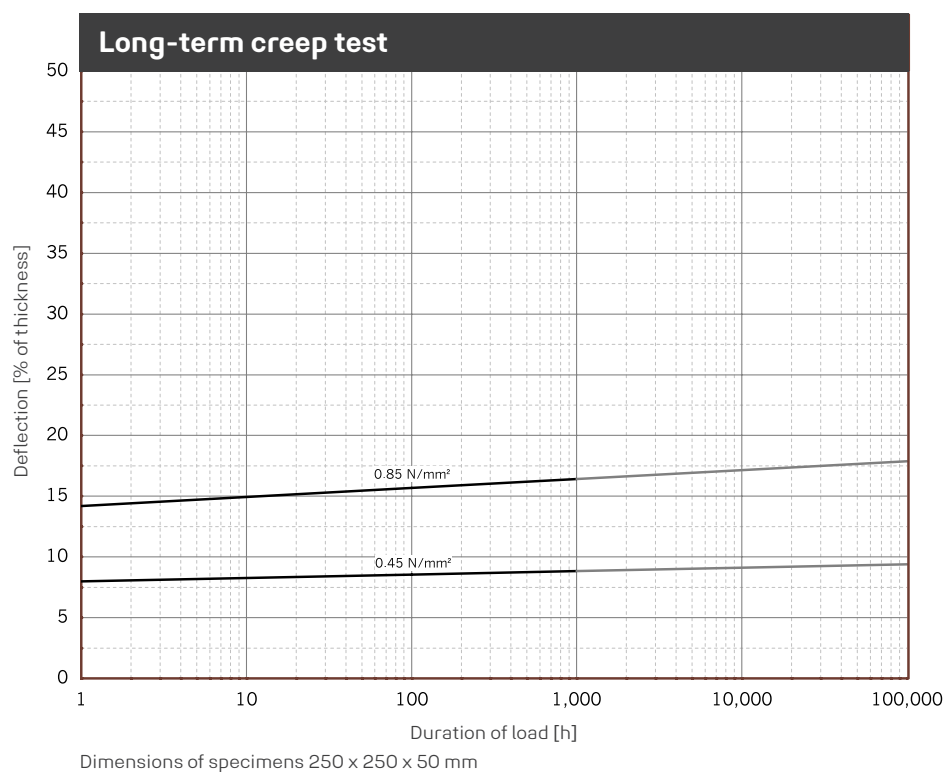


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.10 mm. Dimensions of specimens $250 \times 250 \times 25$ mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

REGUFOAM VIBRATION 810PLUS



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Forms of delivery

Sheets, ex warehouse

Thickness: 12.5 and 25 mm
Length: 1,500 mm
Width: 1,000 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity

2.500 N/mm²

Maximum dynamic load bearing capacity

for intermitted loadings

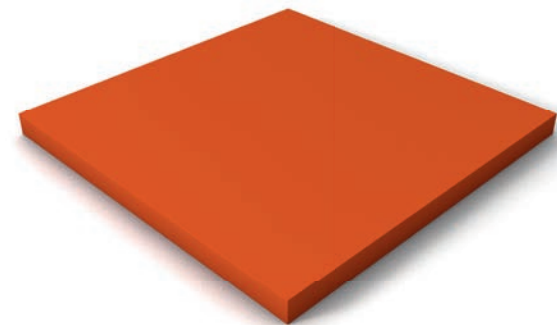
0 to 3.500 N/mm²

Rare, short term peak loads

up to 8.000 N/mm²

Certification

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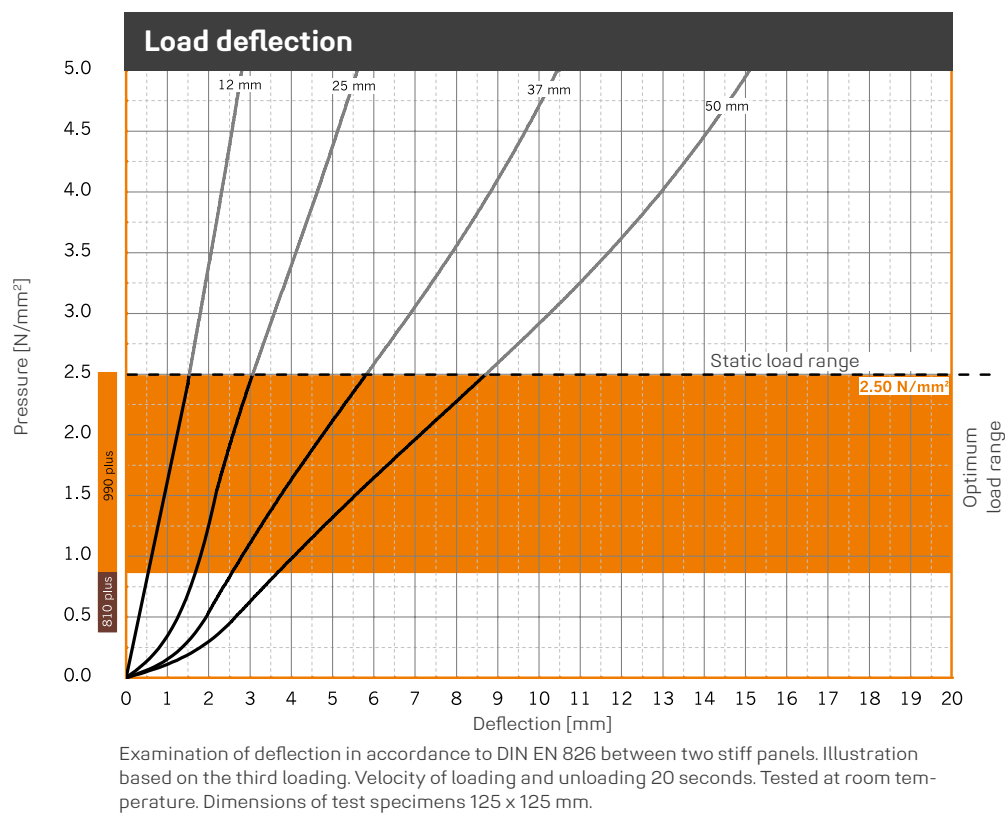
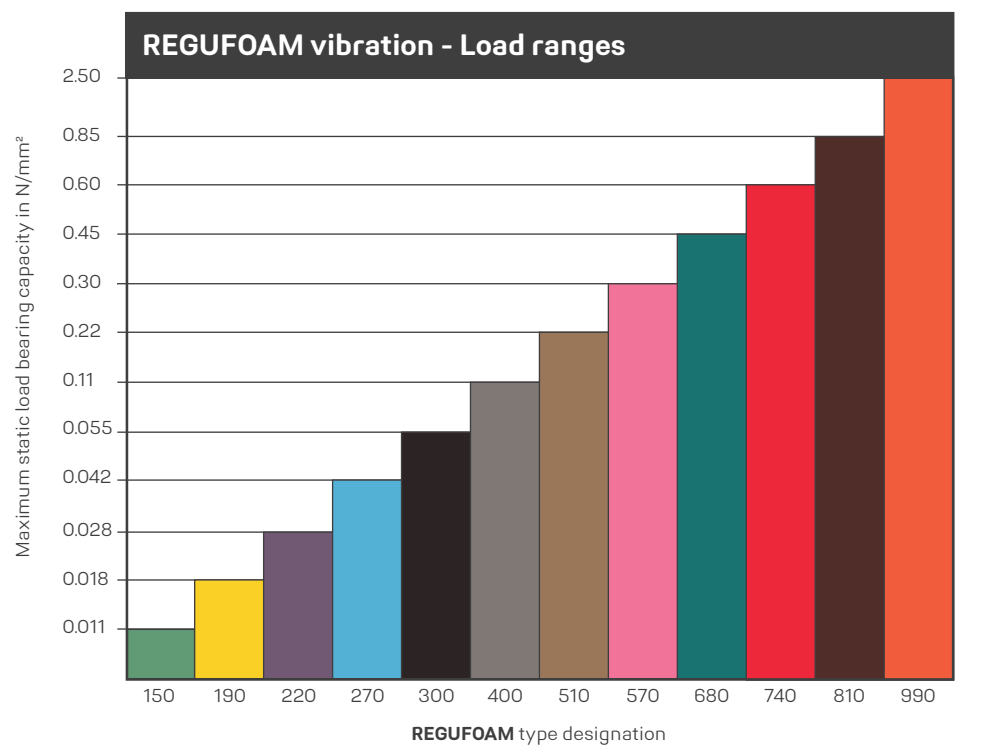


REGUFOAM vibration 990plus is Cradle to Cradle Certified® at the Bronze level.

Physical property	Norm	Result	Comment
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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-laboratory	0.5 0.6	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	3 640 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



REGUFOAM VIBRATION 990PLUS



REGUFOAM VIBRATION 990PLUS

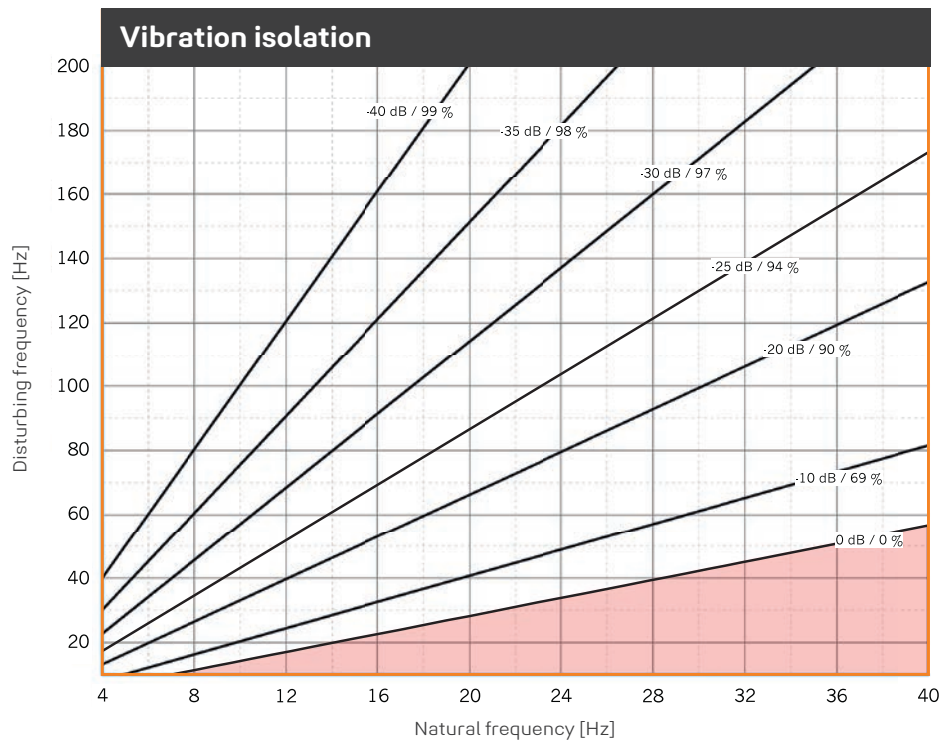
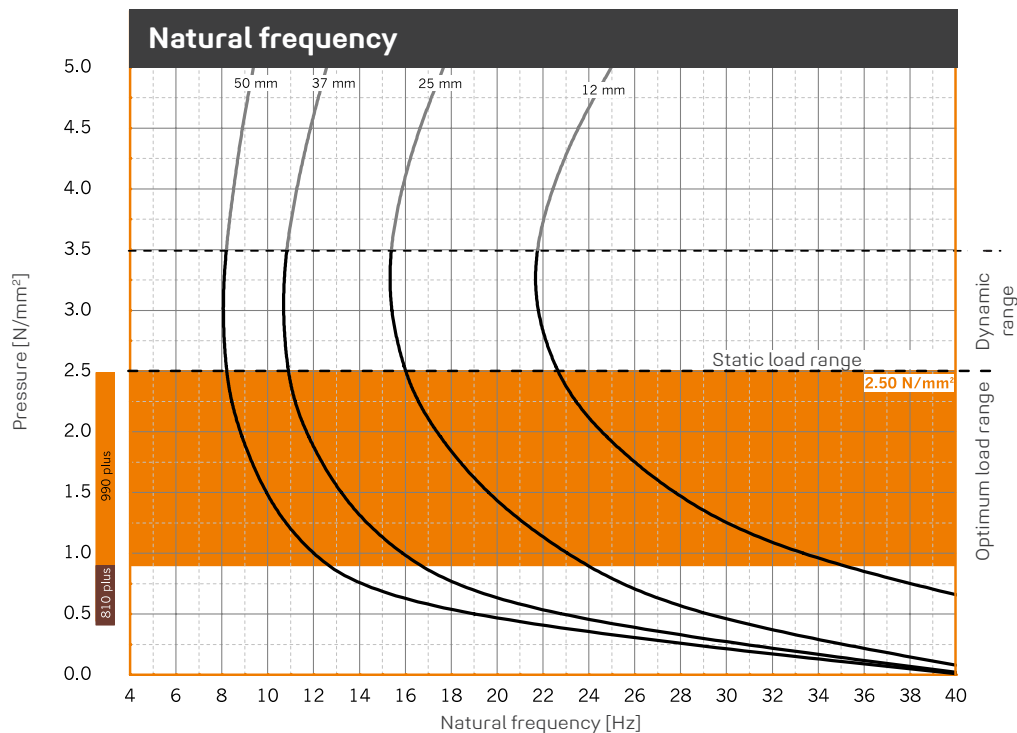


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 990plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.



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

REGUFOAM VIBRATION 990PLUS

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 **REGUPOL**.

REGUFOAM VIBRATION 990PLUS

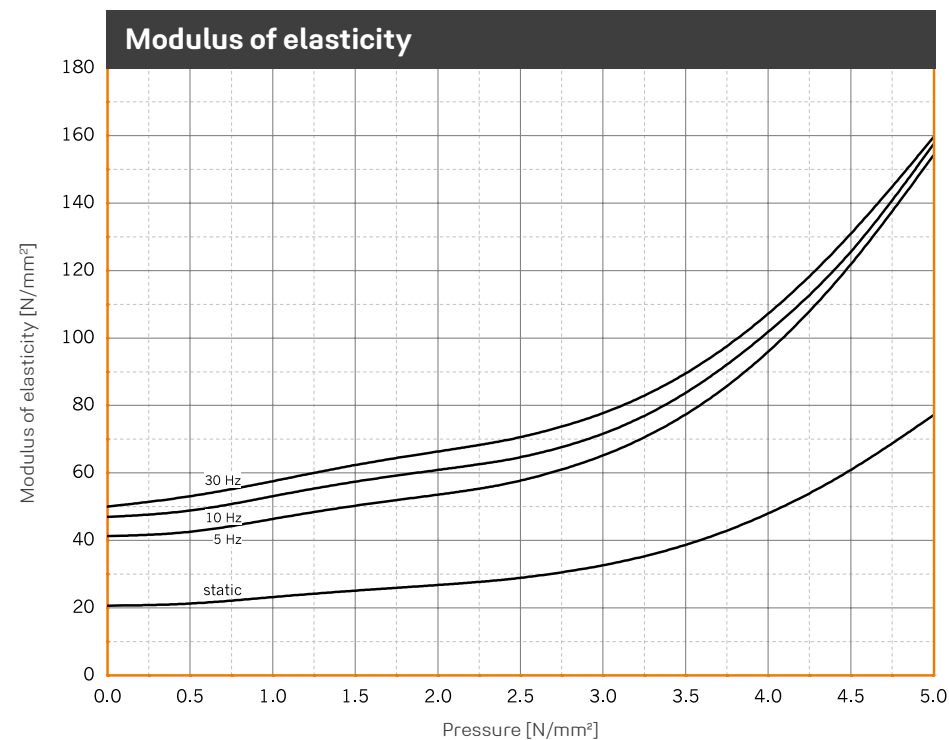


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.10 mm. Dimensions of specimens 125 x 125 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

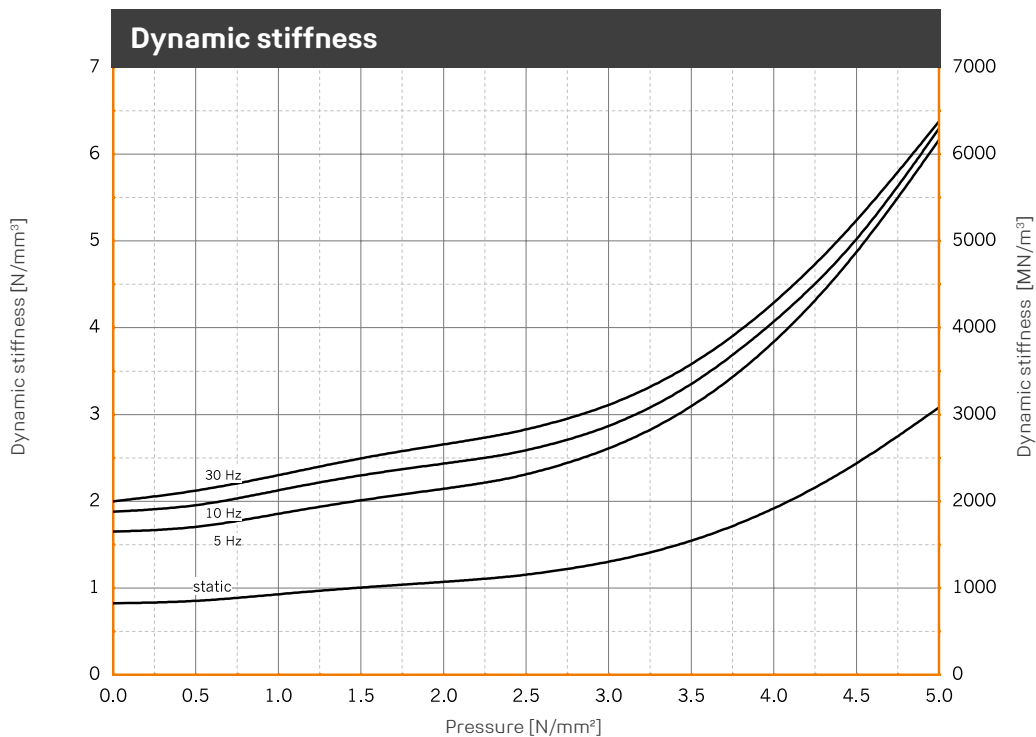
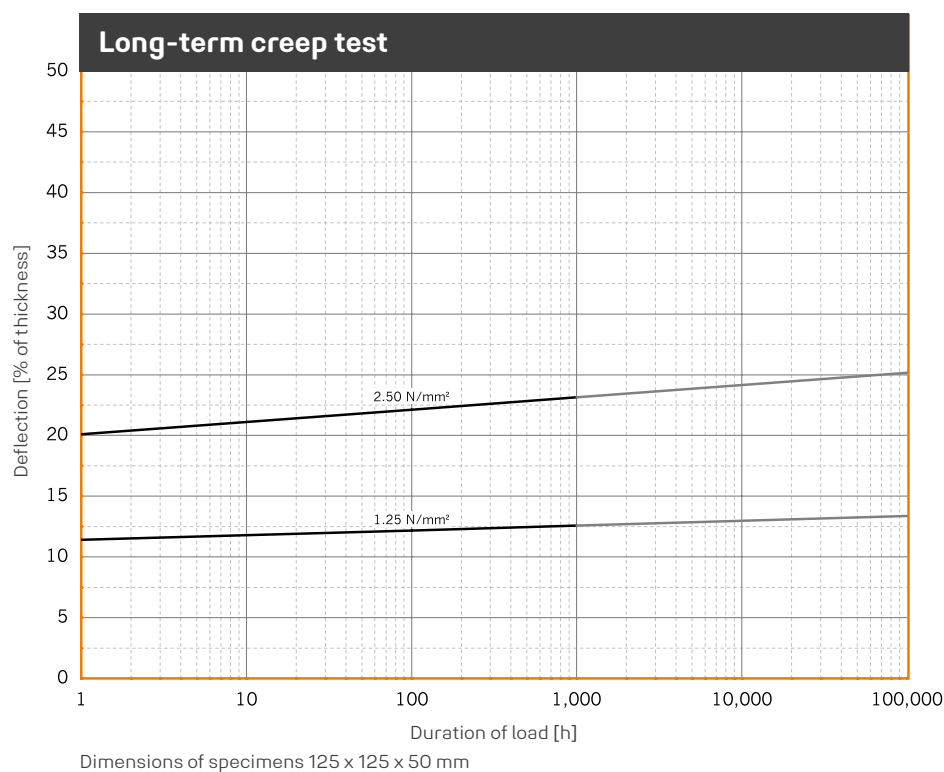


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.10 mm. Dimensions of specimens 125 x 125 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

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
0.00	

N/mm²

REGUFOAM VIBRATION 990PLUS



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Forms of delivery

Rolls, ex warehouse

Thickness: 12.5 and 25 mm
Length: 5,000 mm
Width: 1,500 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity

0.011 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings

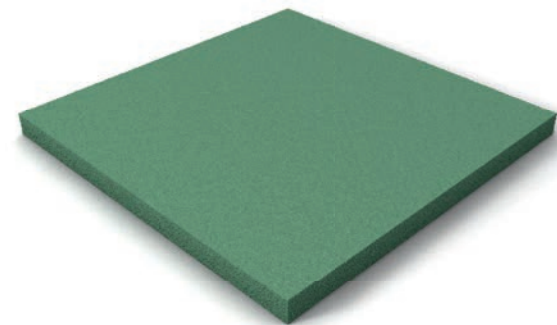
0 to 0.016 N/mm²

Rare, short term peak loads

up to 0.500 N/mm²

Certification

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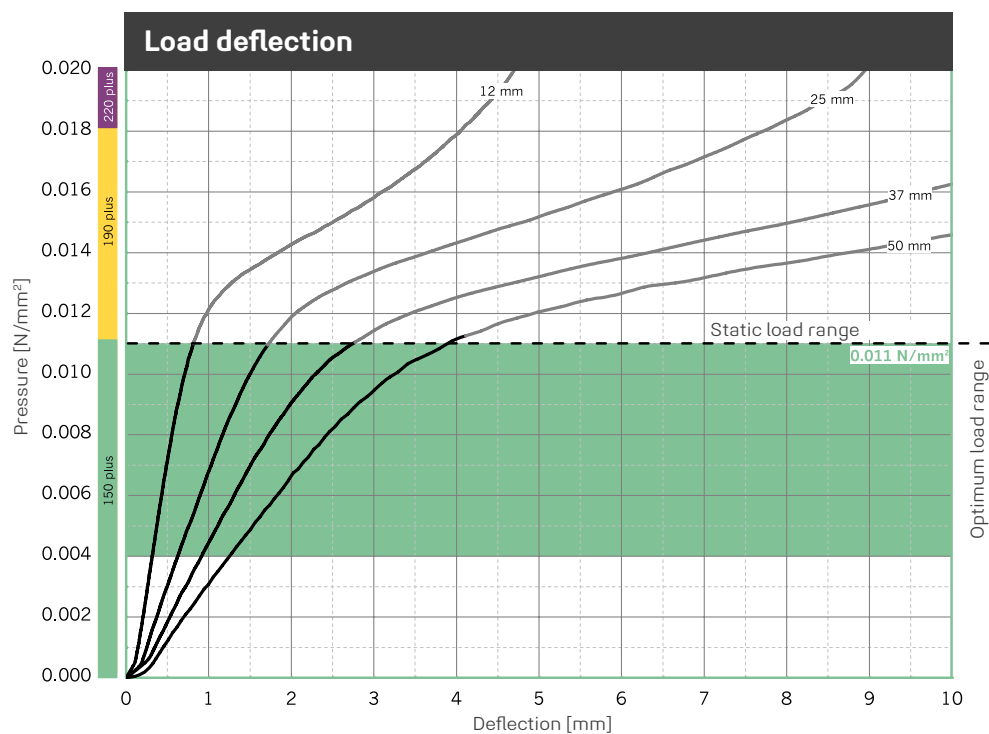
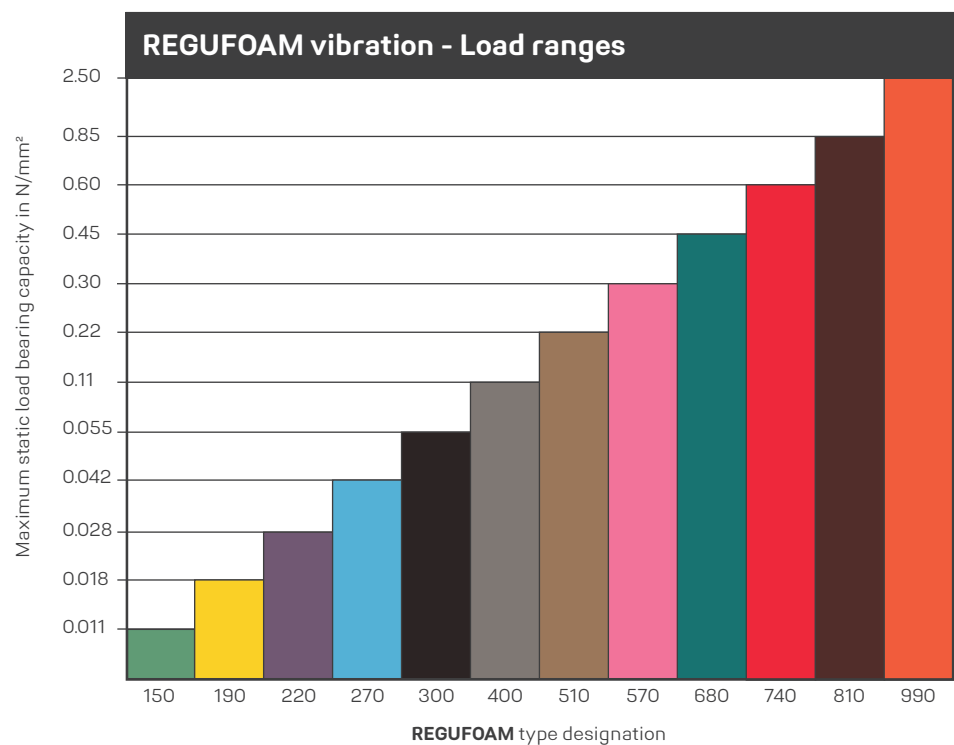
REGUFOAM vibration 150plus is Cradle to Cradle Certified® at the Bronze level.

Physical property	Norm	Result	Comment
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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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

REGUFOAM VIBRATION 150PLUS



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 x 300 mm.

REGUFOAM VIBRATION 150PLUS

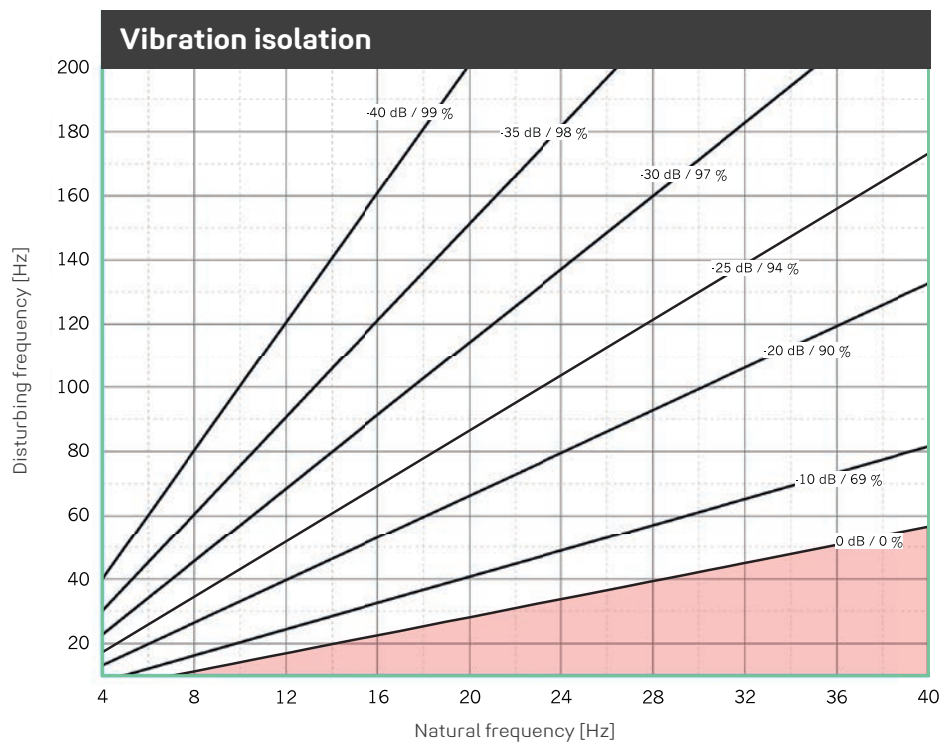
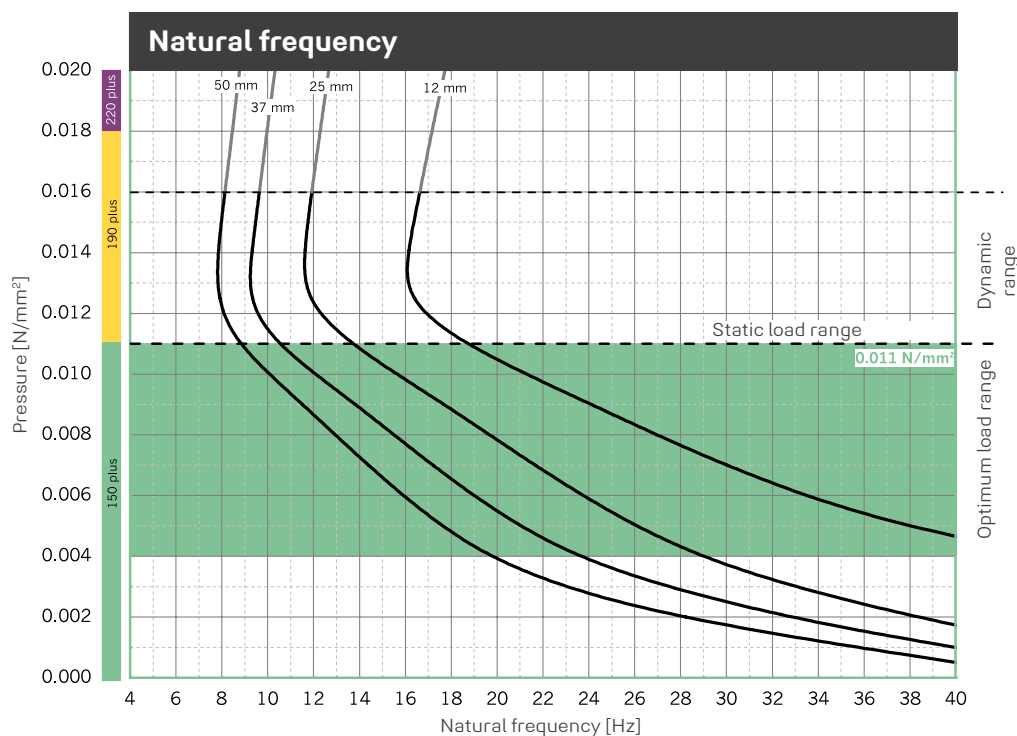
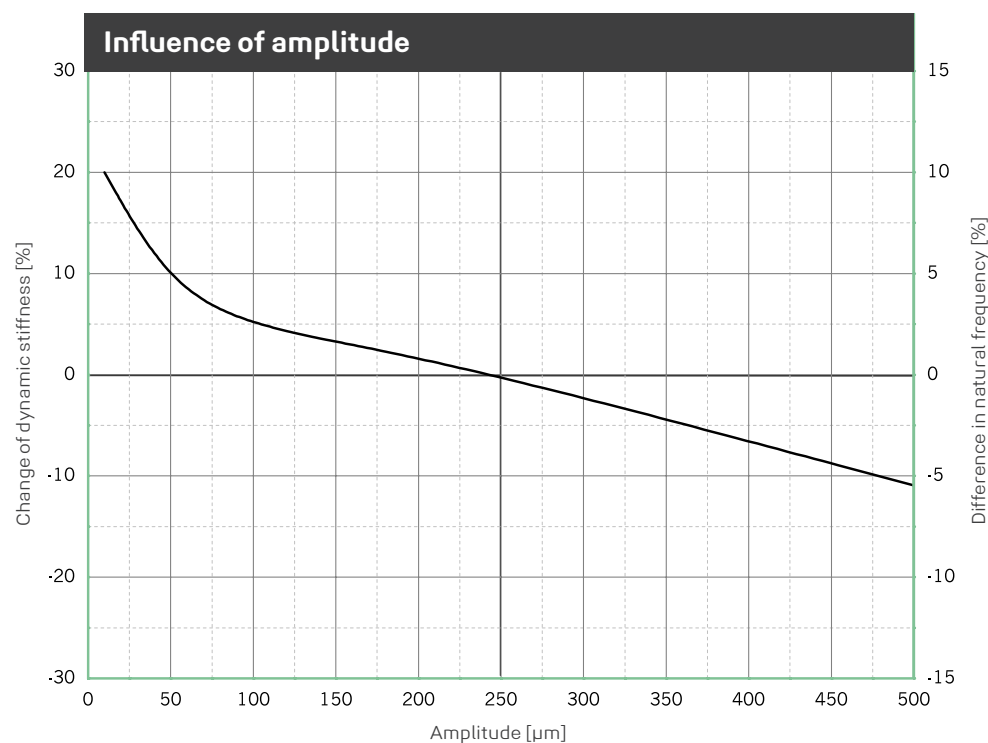


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 150plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

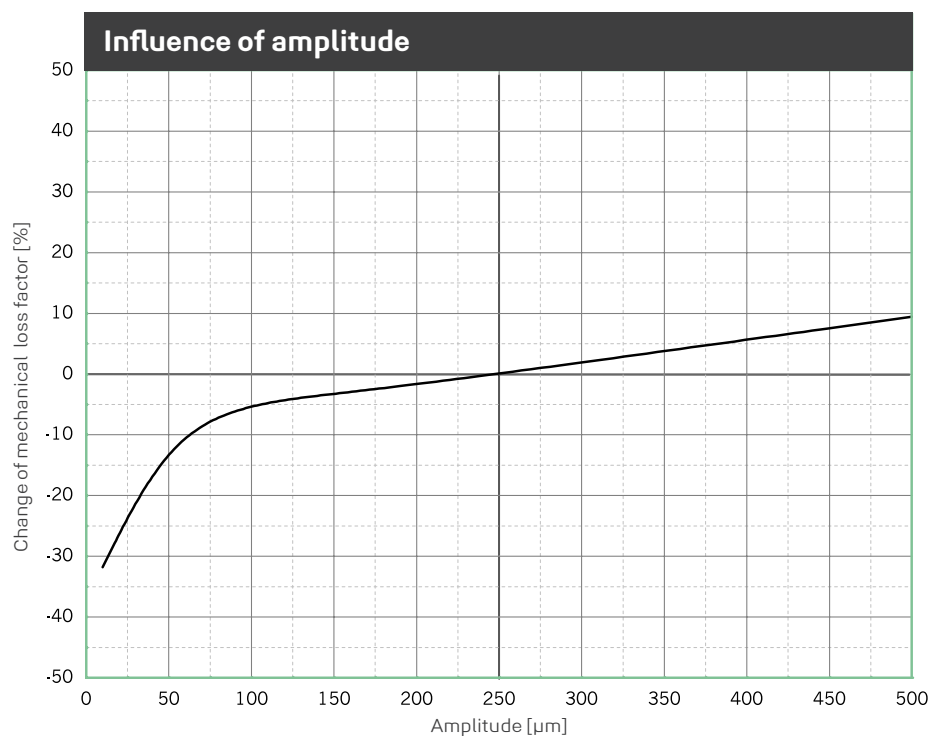


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 150plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

REGUFOAM VIBRATION 150PLUS



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 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of 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 x 300 x 25 mm.

REGUFOAM VIBRATION 150PLUS

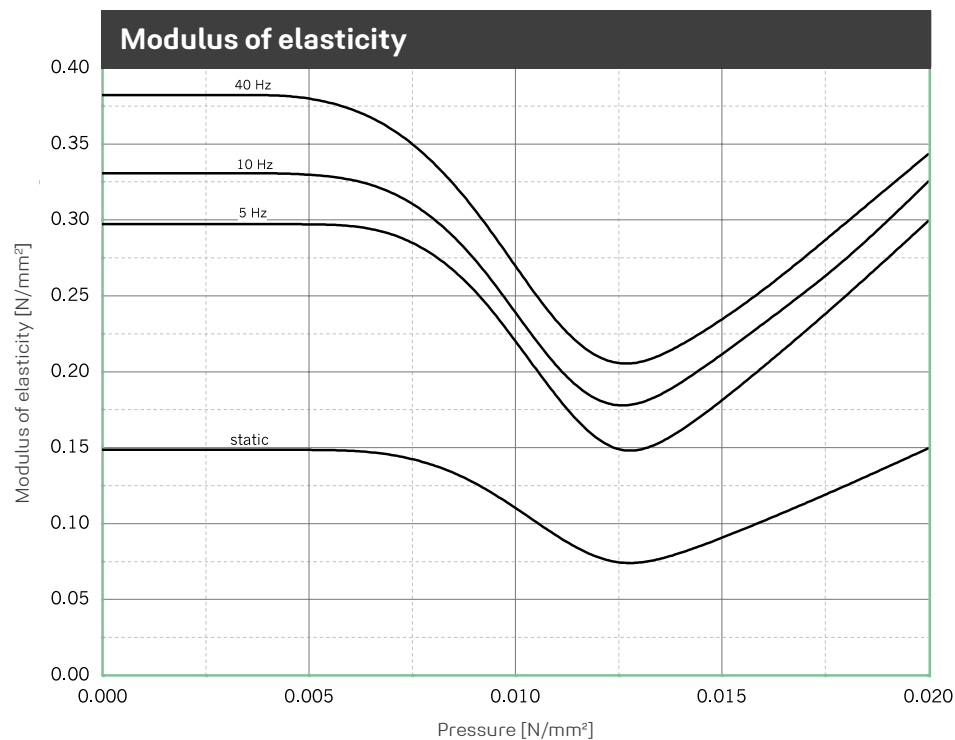


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

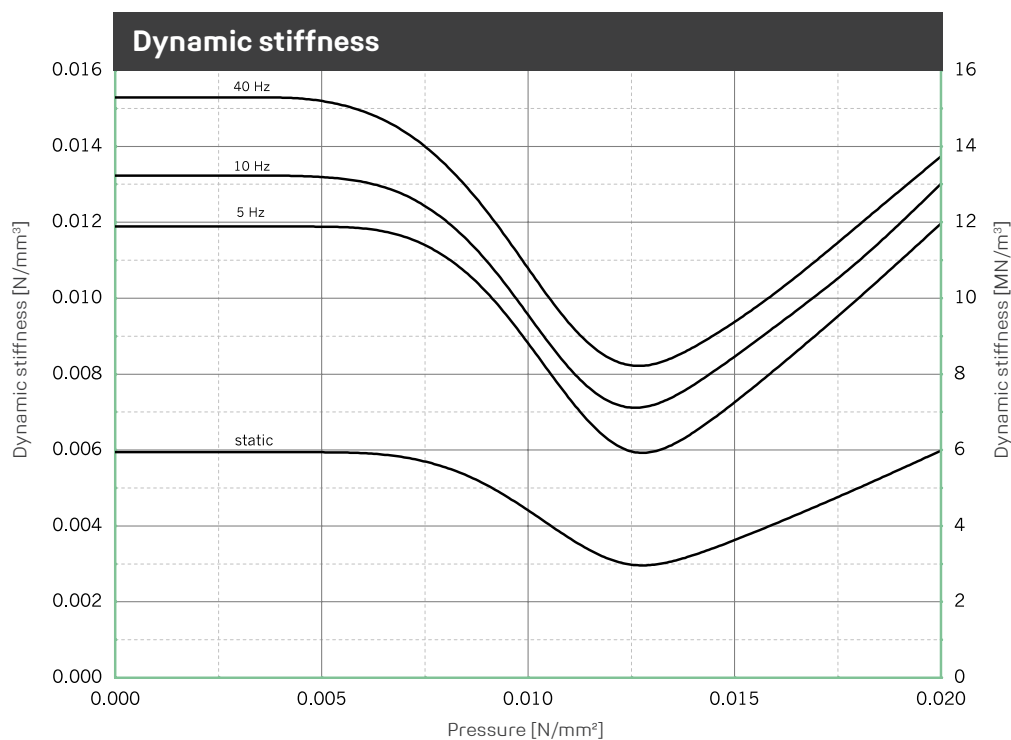
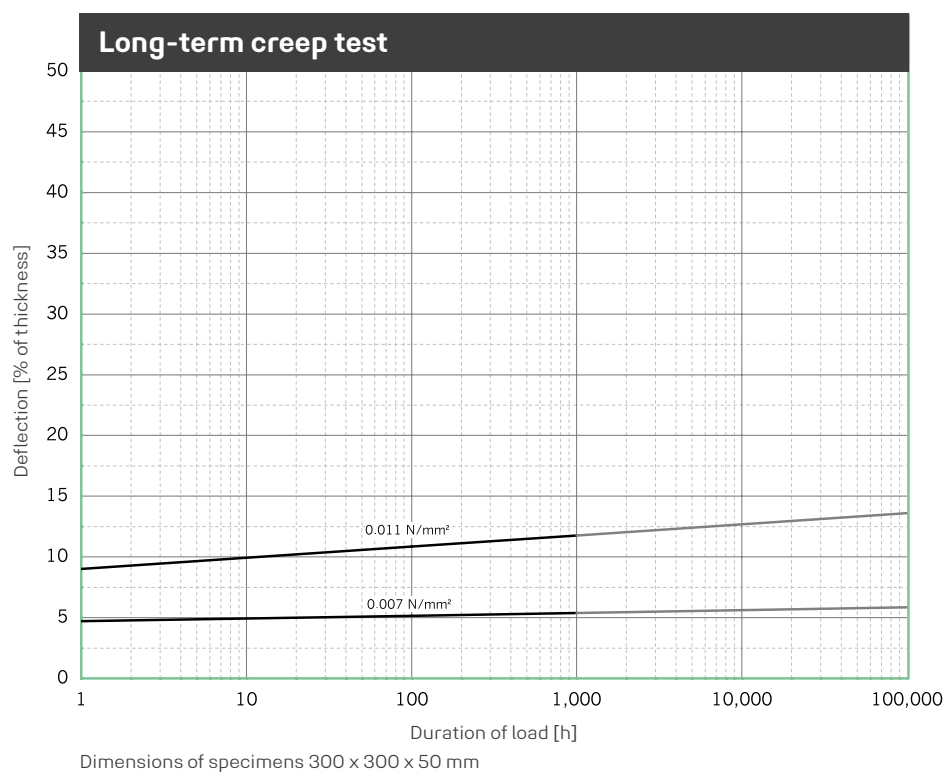


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

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
0.00	

N/mm²

REGUFOAM VIBRATION 150PLUS



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Forms of delivery

Rolls, ex warehouse

Thickness: 12.5 and 25 mm
Length: 5,000 mm
Width: 1,500 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity

0.018 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings

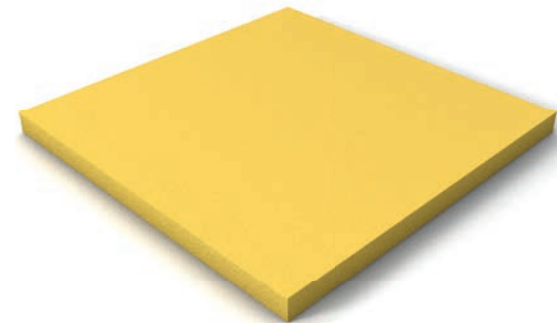
0 to 0.028 N/mm²

Rare, short term peak loads

up to 0.800 N/mm²

Certification

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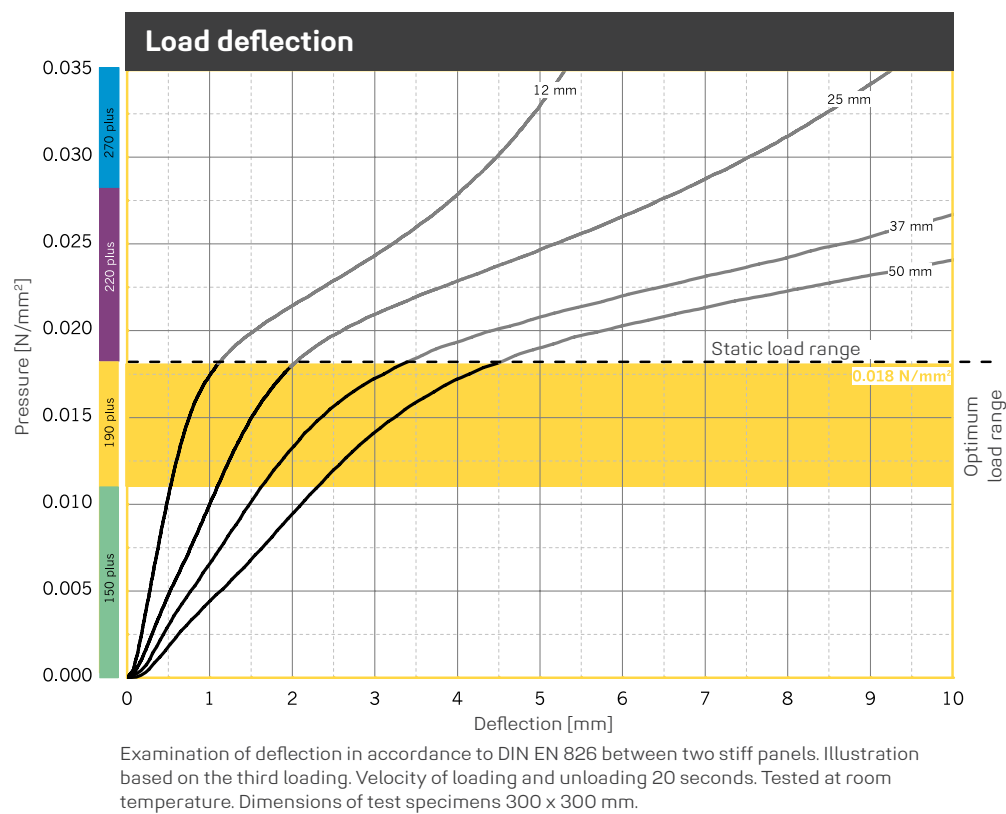
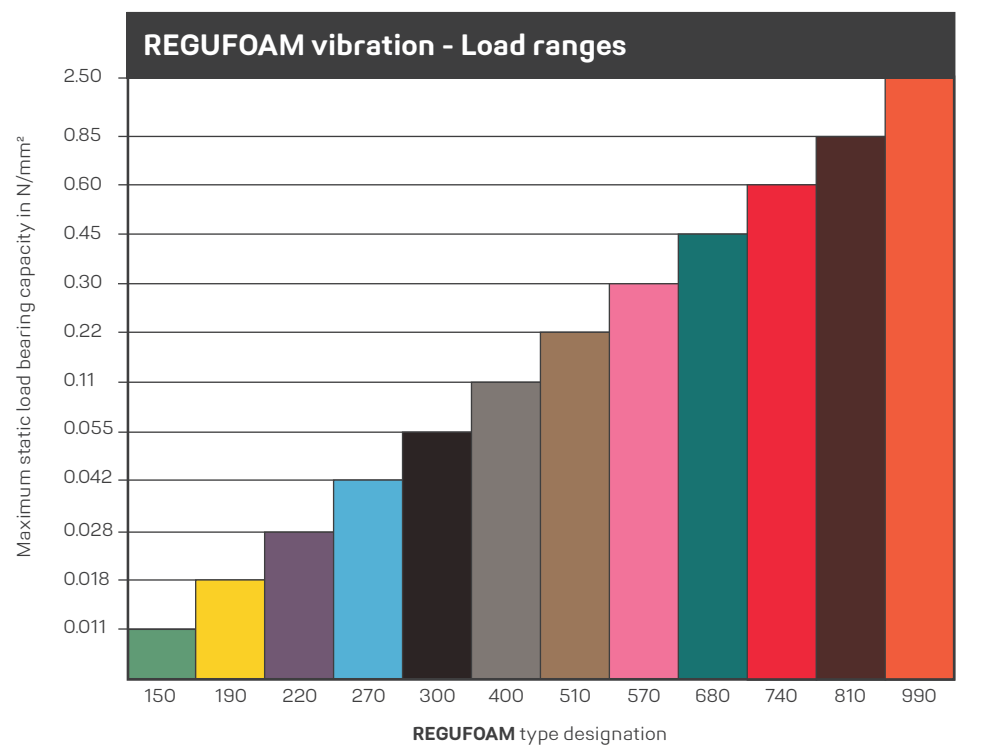
REGUFOAM vibration 190plus is Cradle to Cradle Certified® at the Bronze level.

Physical property	Norm	Result	Comment
Static modulus of elasticity	Based on EN 826	0.10 - 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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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

REGUFOAM VIBRATION 190PLUS



REGUFOAM VIBRATION 190PLUS

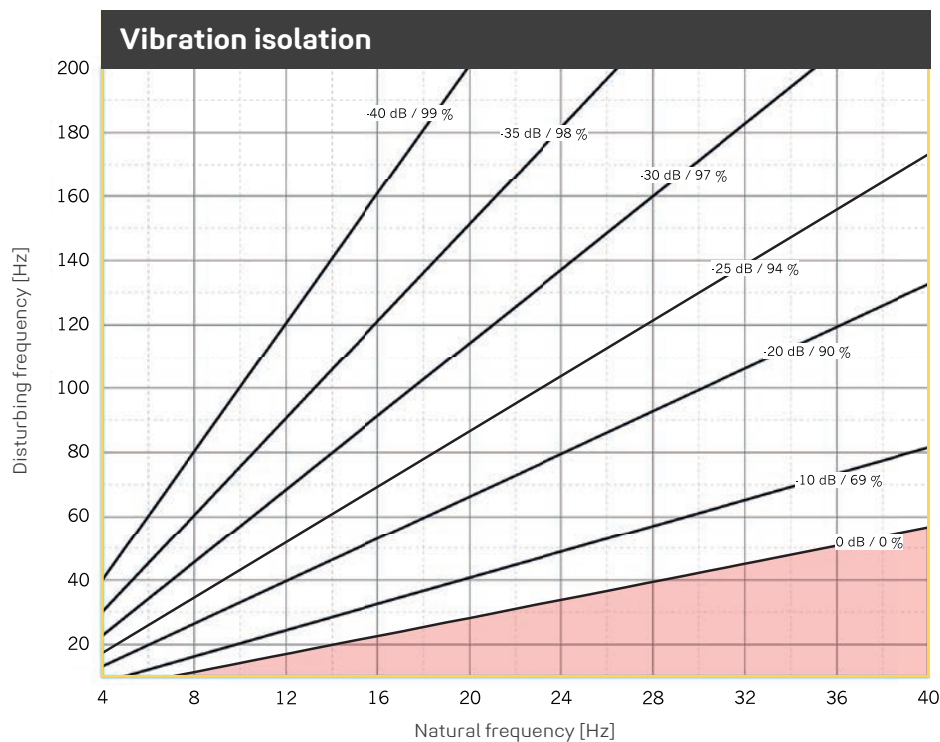
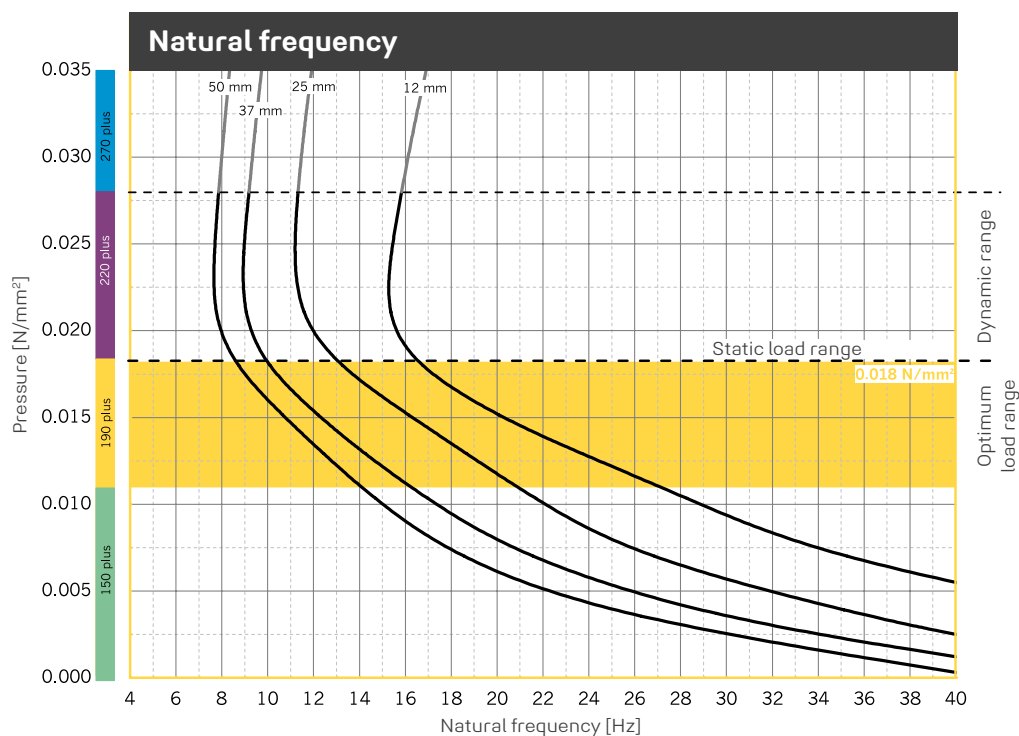
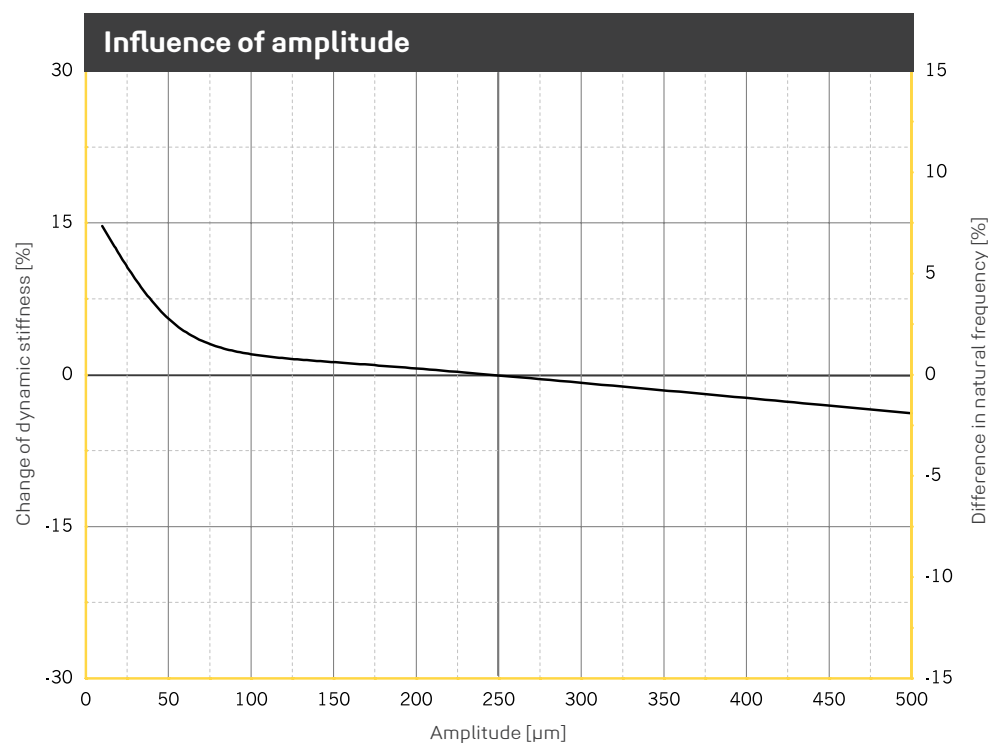


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 190plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

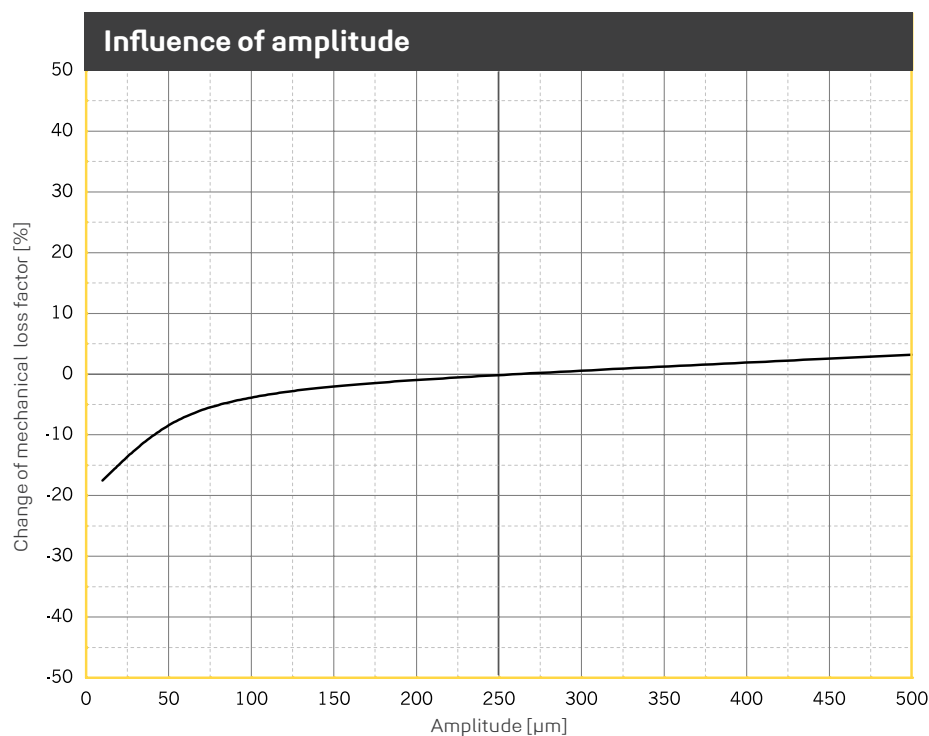


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 190plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

REGUFOAM VIBRATION 190PLUS



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 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of 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 x 300 x 25 mm.

REGUFOAM VIBRATION 190PLUS

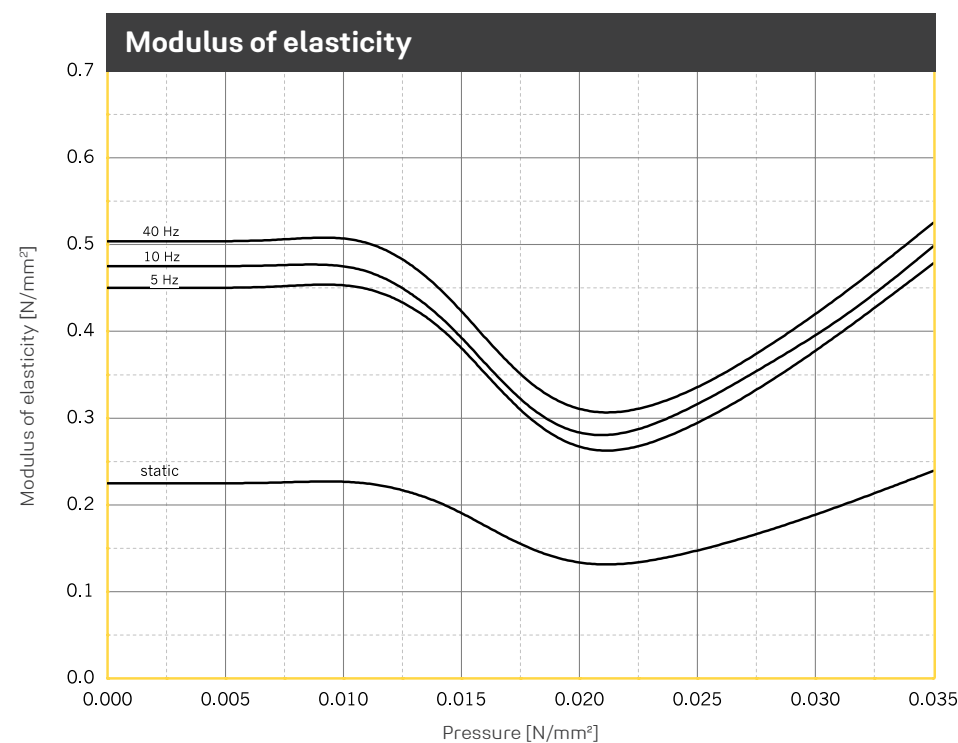


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

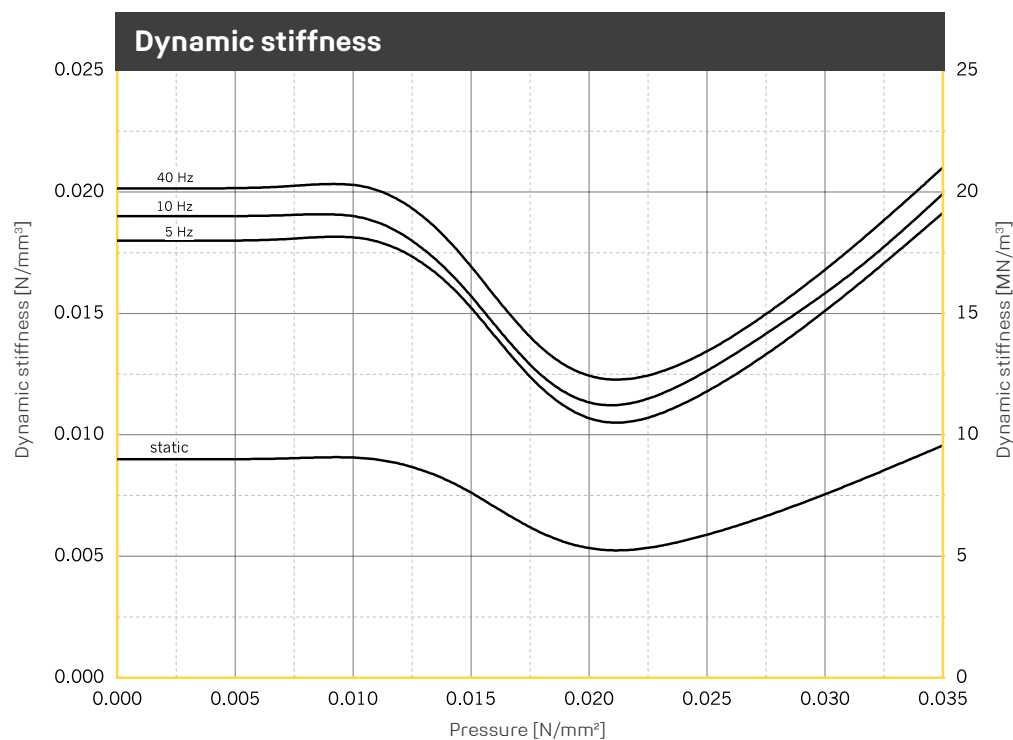
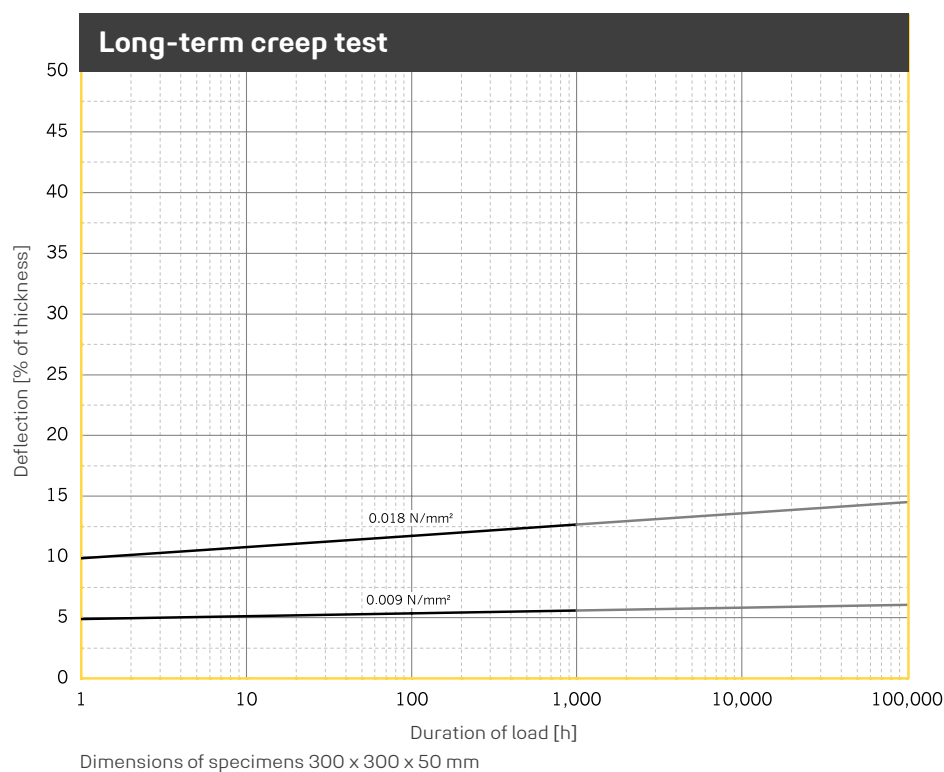


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

250	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
0.00	

N/mm²

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Forms of delivery

Rolls, ex warehouse

Thickness: 12.5 and 25 mm
Length: 5,000 mm
Width: 1,500 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

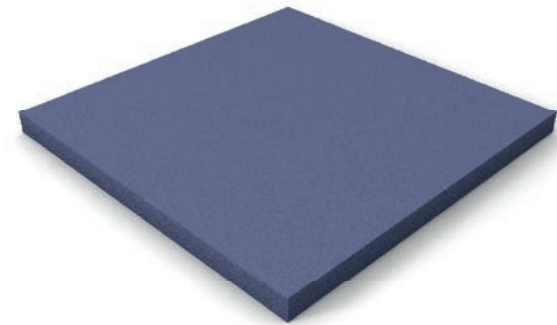
Maximum static load bearing capacity
0.028 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings
0 to 0.040 N/mm²

Rare, short term peak loads
up to 0.900 N/mm²

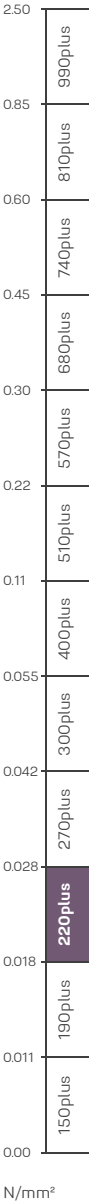
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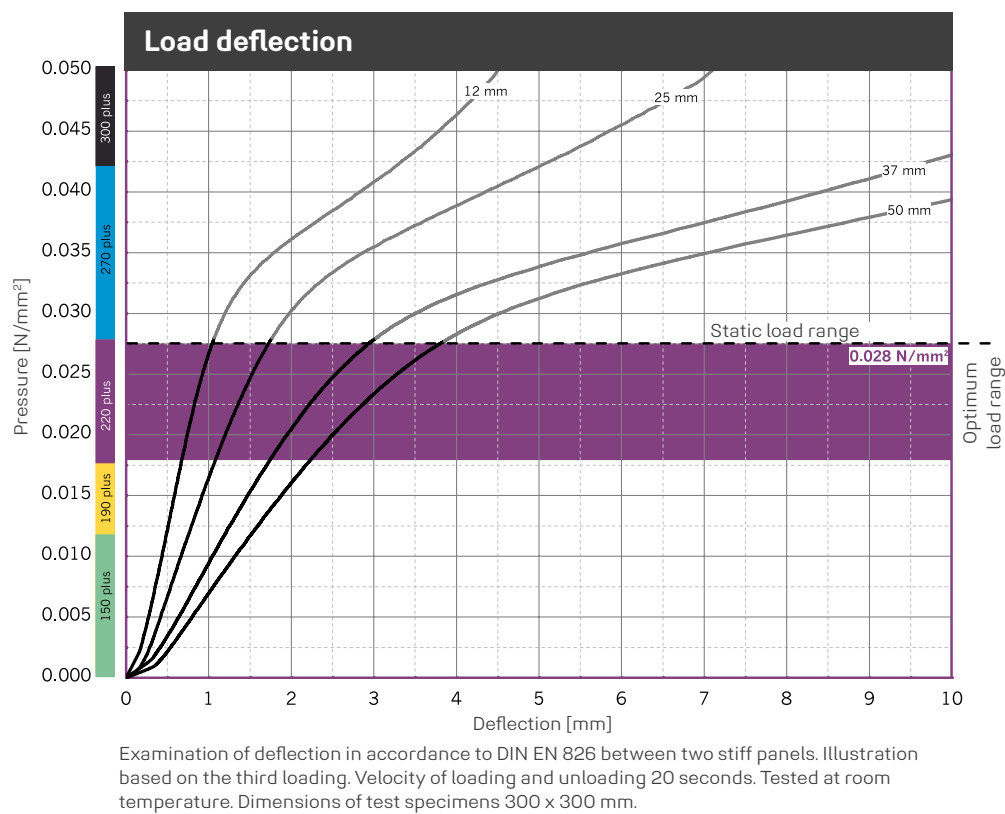
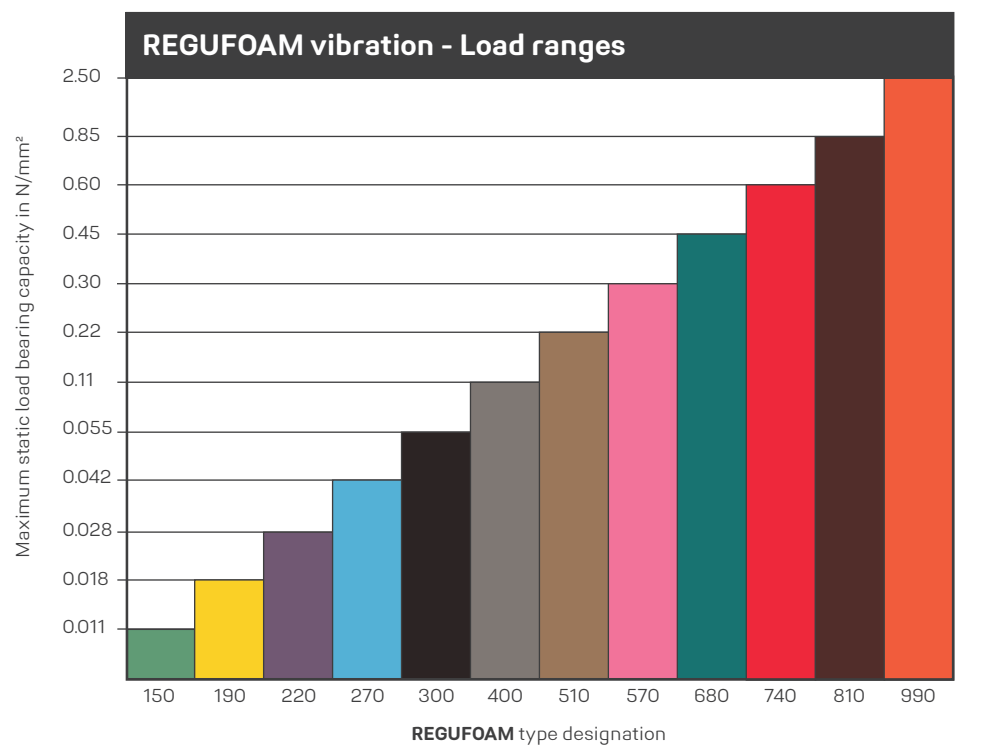
REGUFOAM vibration 220plus
is Cradle to Cradle Certified®
at the Bronze level.

Physical property	Norm	Result	Comment
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 - 0.72 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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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

REGUFOAM VIBRATION 220PLUS



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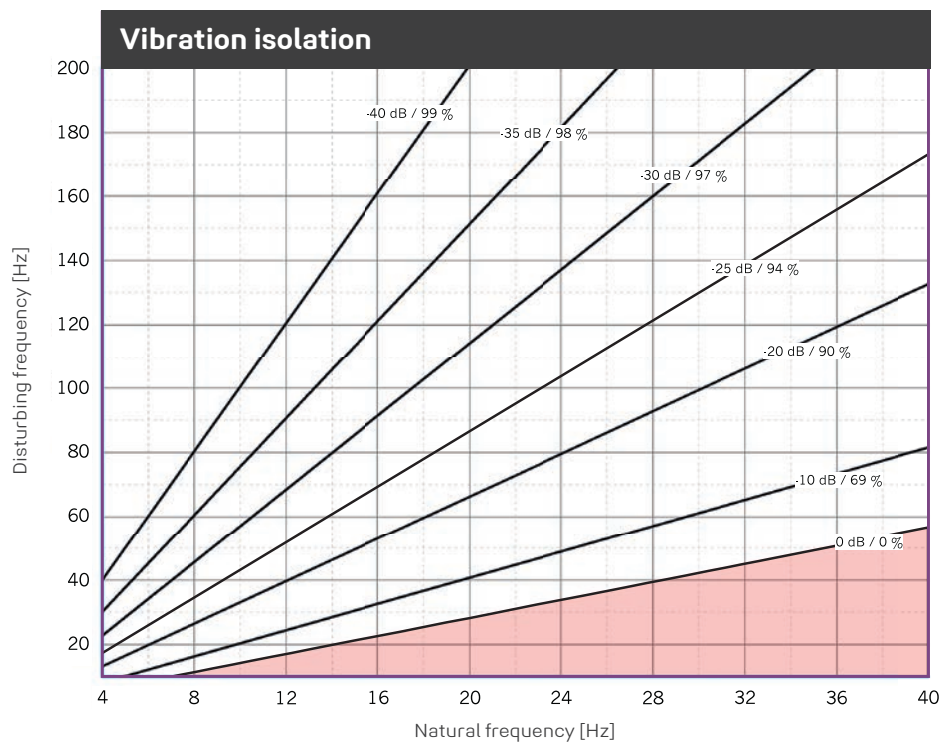
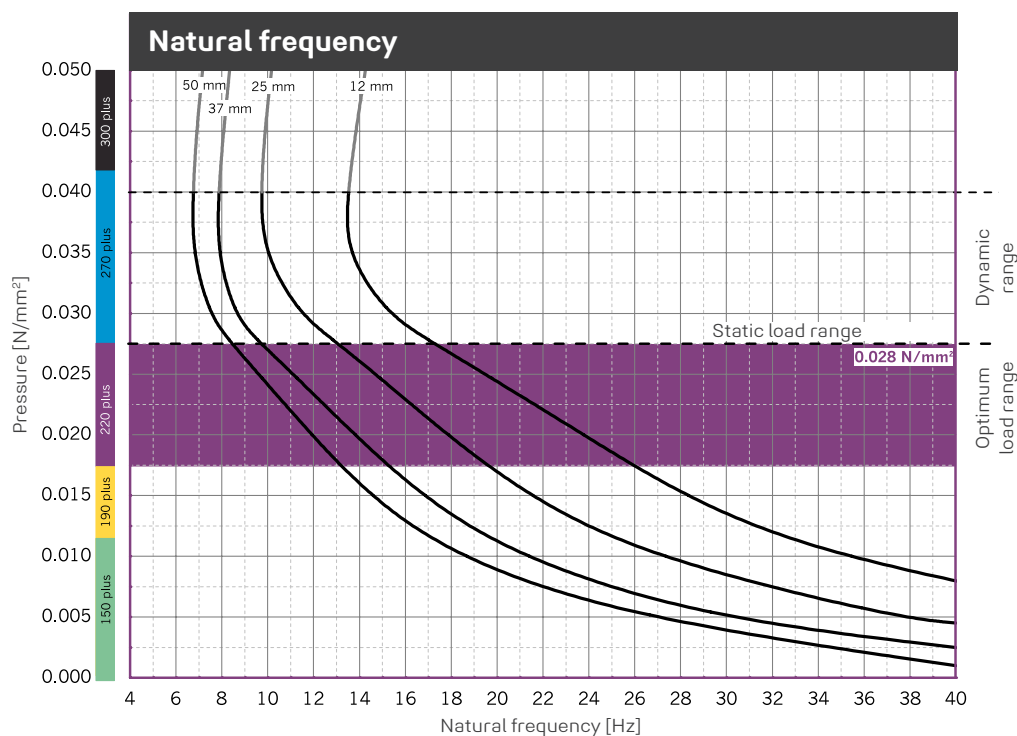
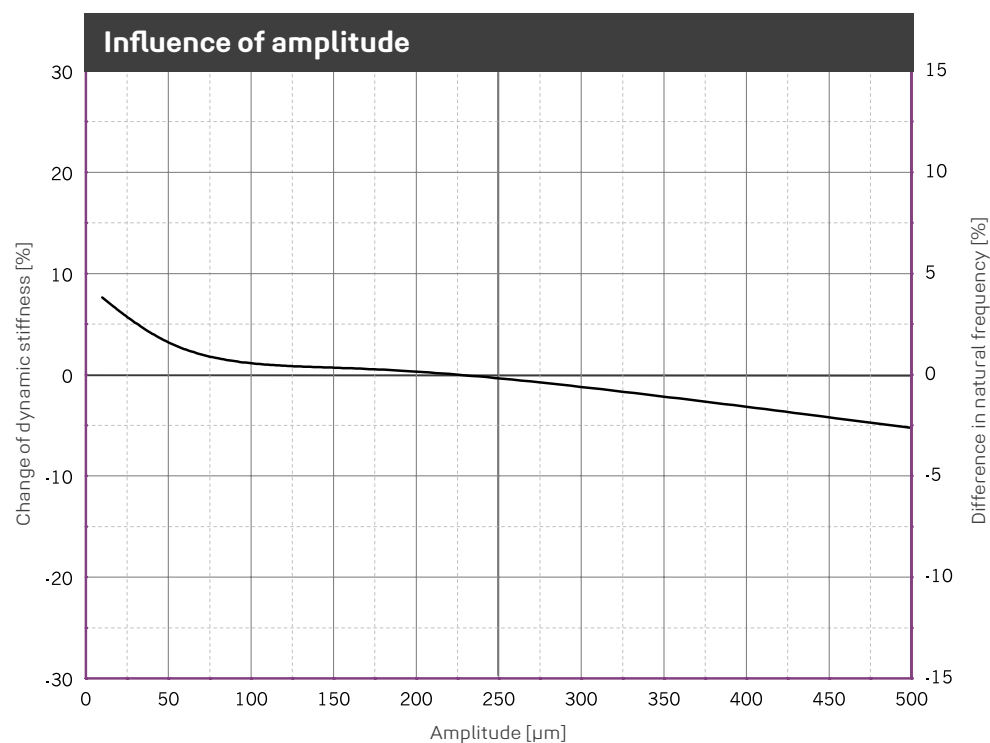


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 220plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

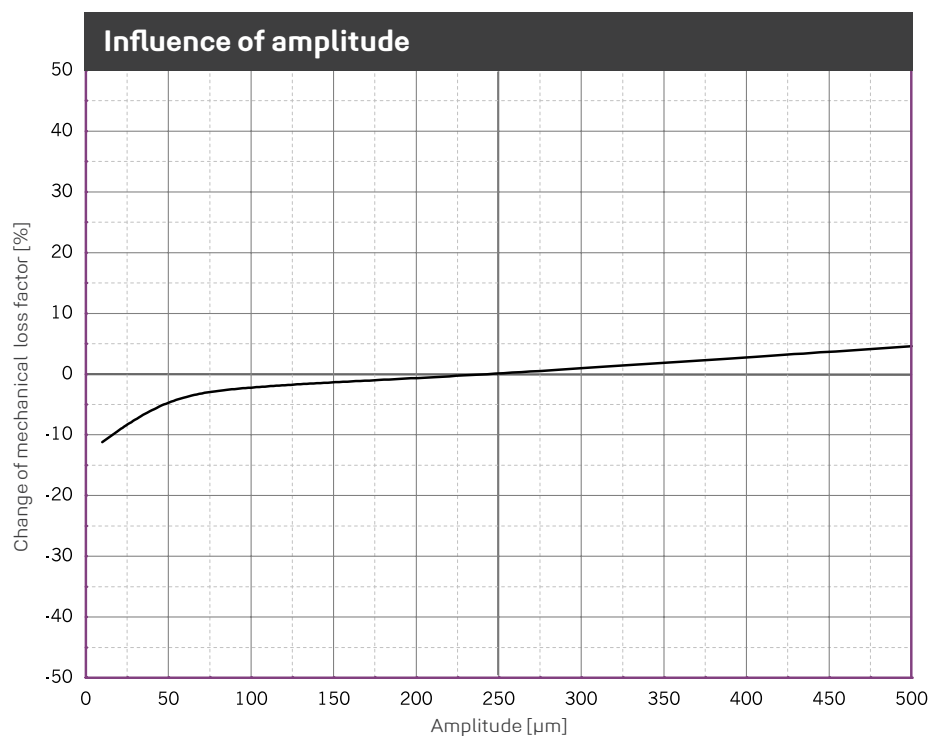


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 220plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

REGUFOAM VIBRATION 220PLUS



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 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of 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 x 300 x 25 mm.

REGUFOAM VIBRATION 220PLUS

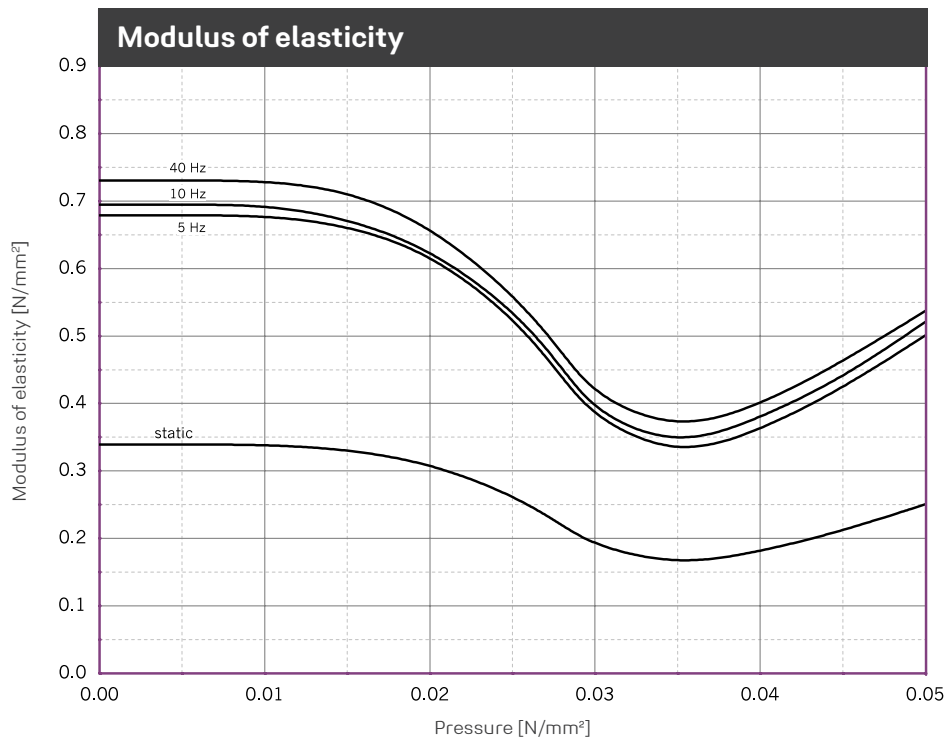


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

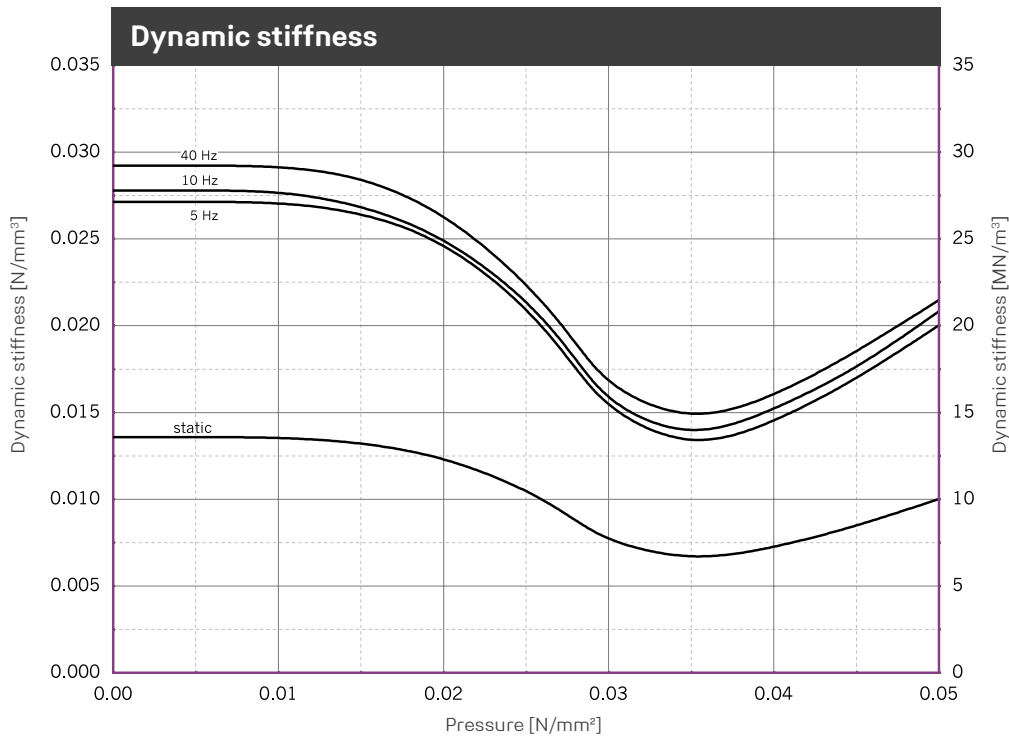
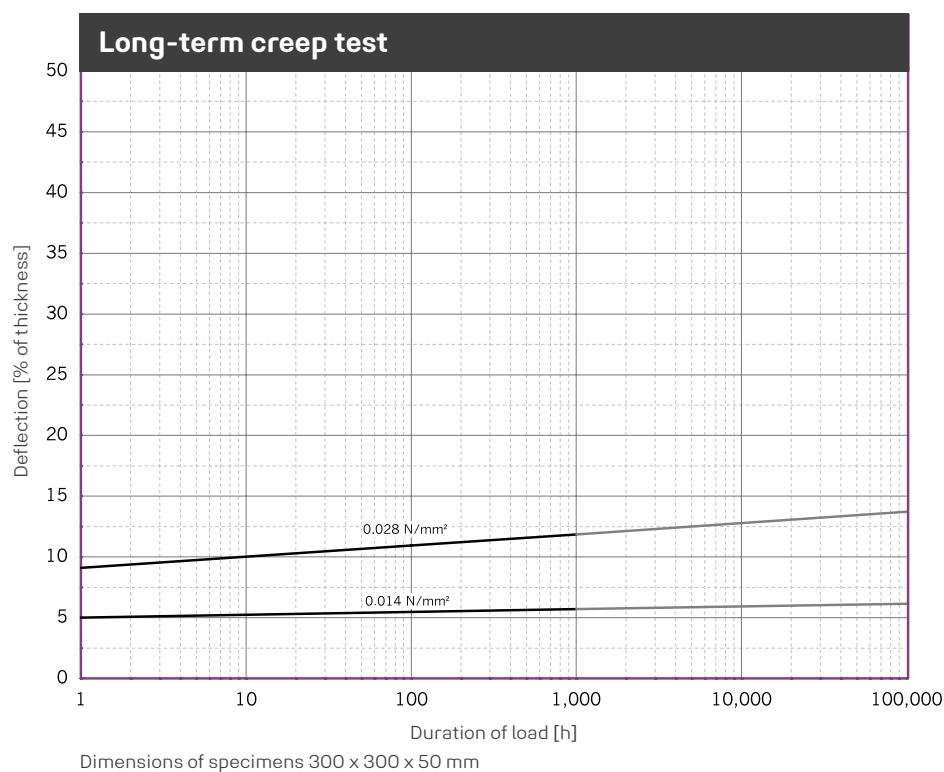


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

REGUFOAM VIBRATION 220PLUS



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Forms of delivery

Rolls, ex warehouse

Thickness: 12.5 and 25 mm
Length: 5,000 mm
Width: 1,500 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity

0.042 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings

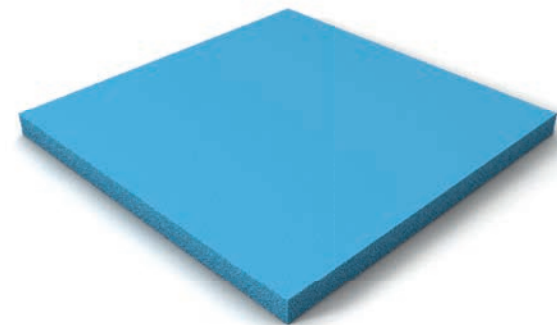
0 to 0.062 N/mm²

Rare, short term peak loads

up to 1.200 N/mm²

Certification

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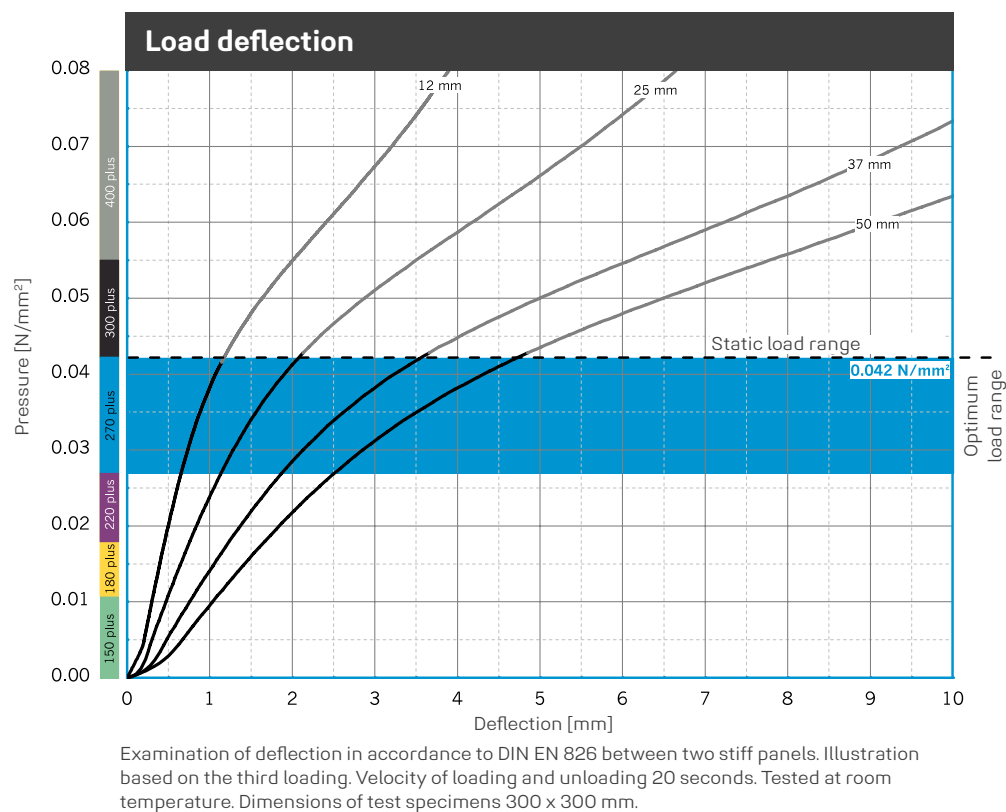
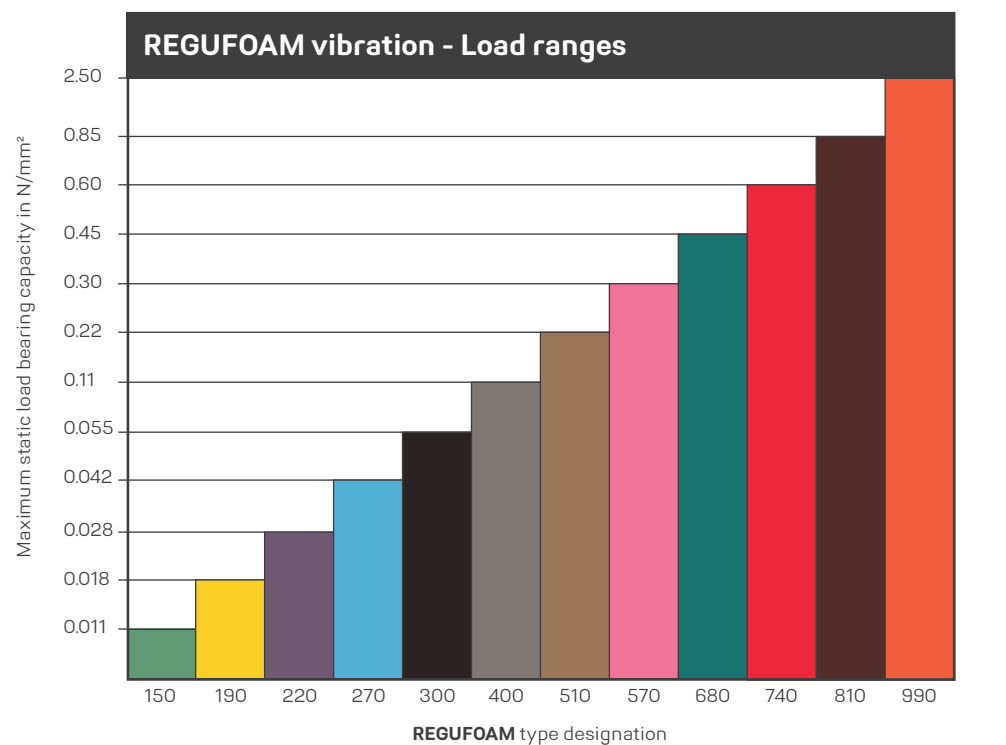
REGUFOAM vibration 270plus
is Cradle to Cradle Certified®
at the Bronze level.

Physical property	Norm	Result	Comment
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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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

REGUFOAM VIBRATION 270PLUS



REGUFOAM VIBRATION 270PLUS

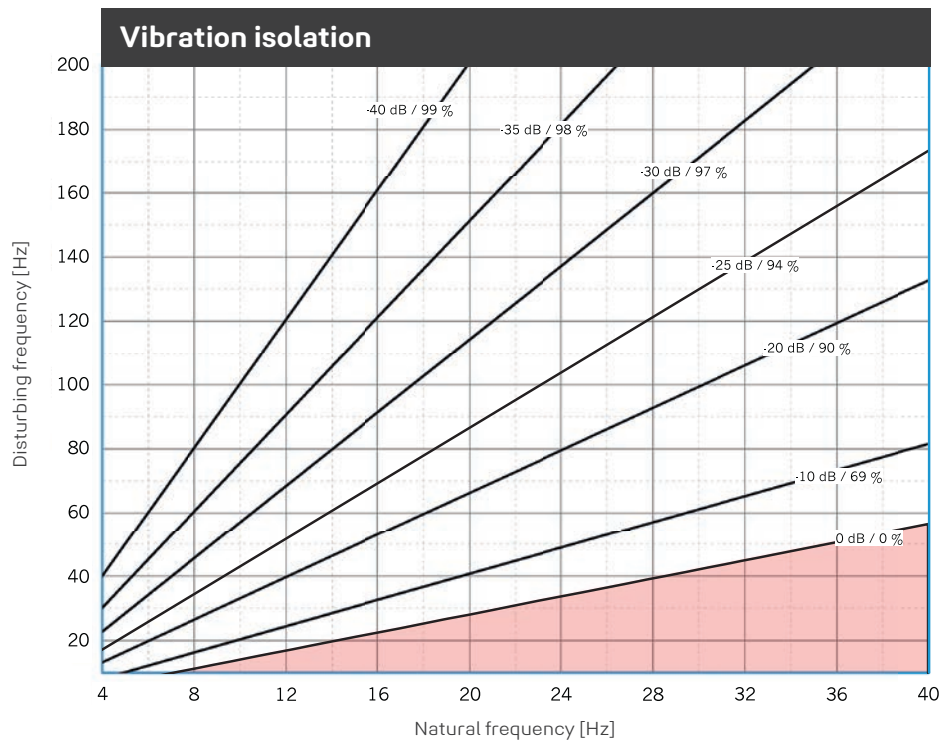
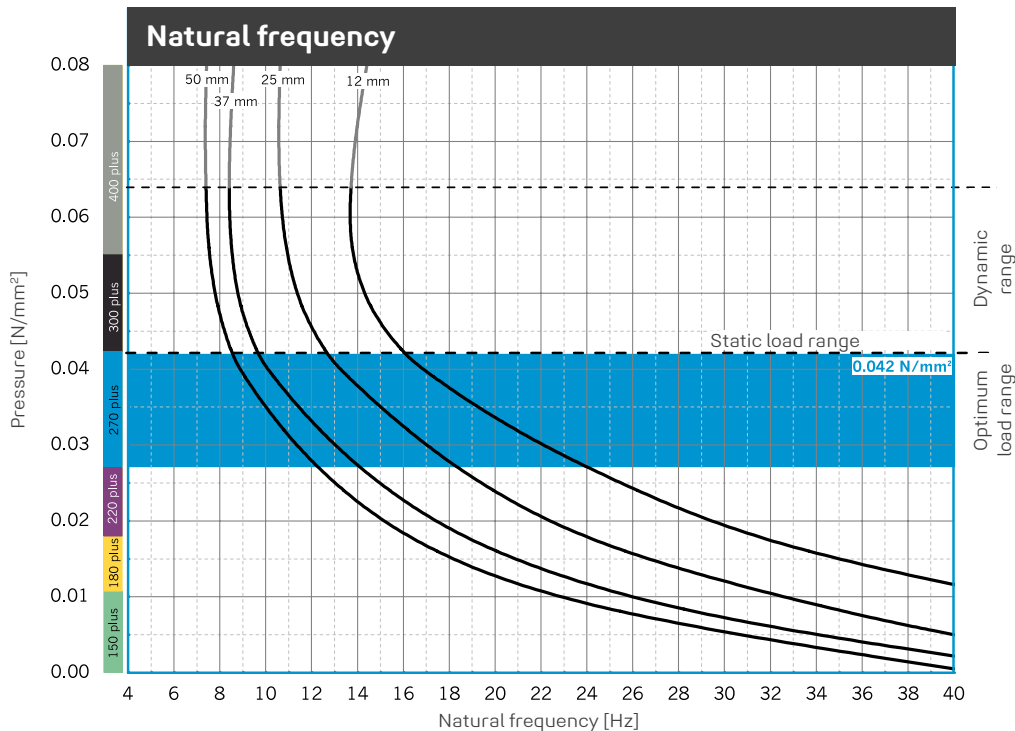
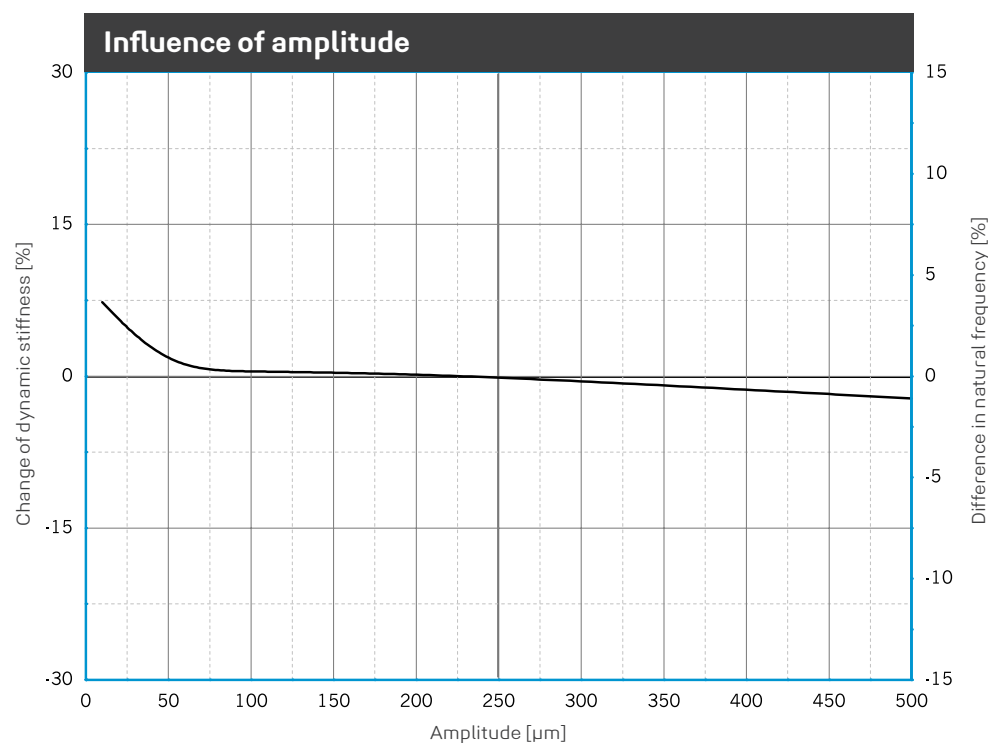


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 270plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

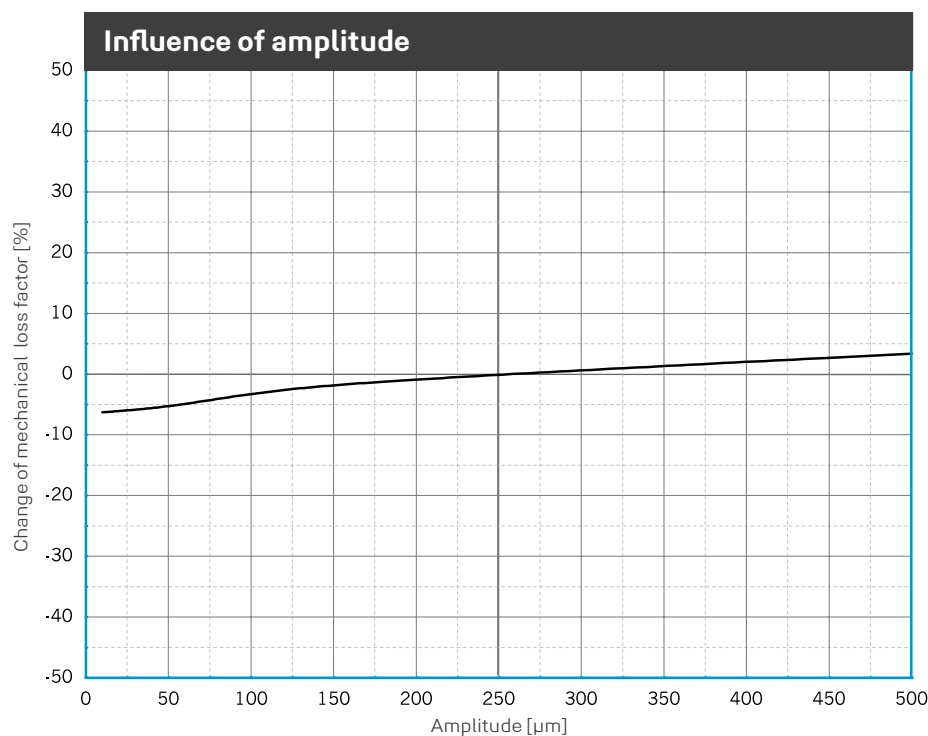


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 270plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

REGUFOAM VIBRATION 270PLUS



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 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of 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 x 300 x 25 mm.

REGUFOAM VIBRATION 270PLUS

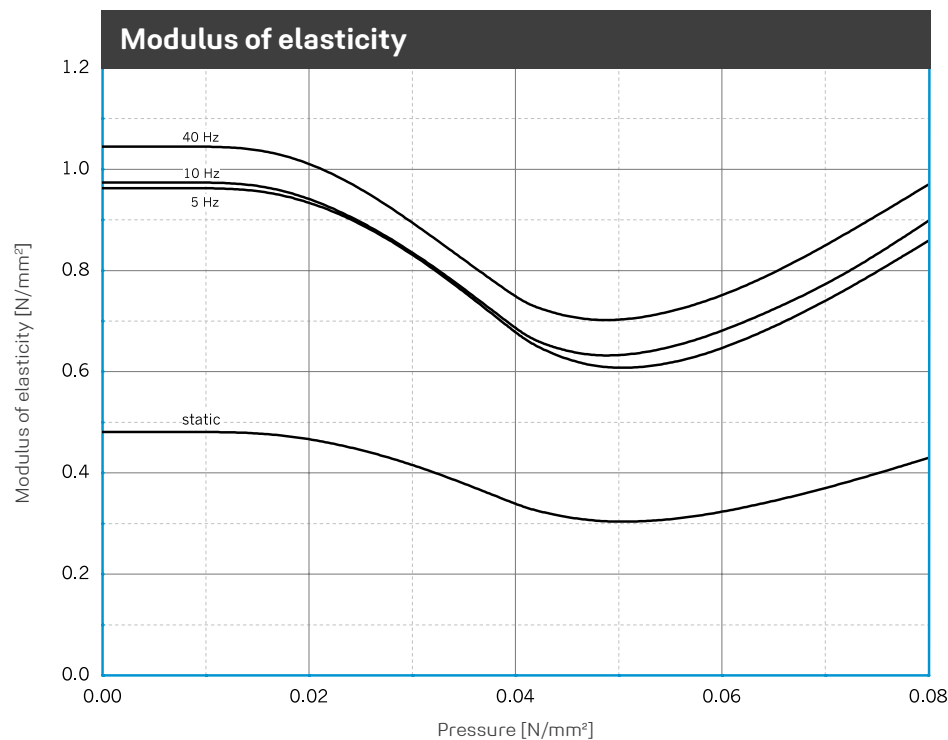


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

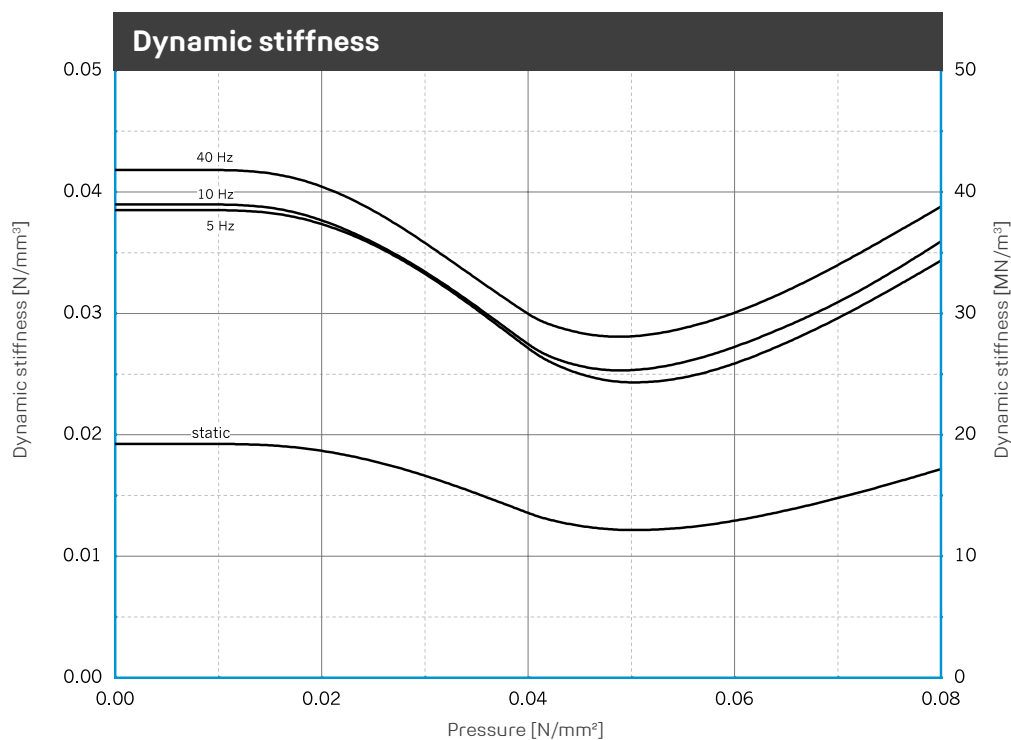
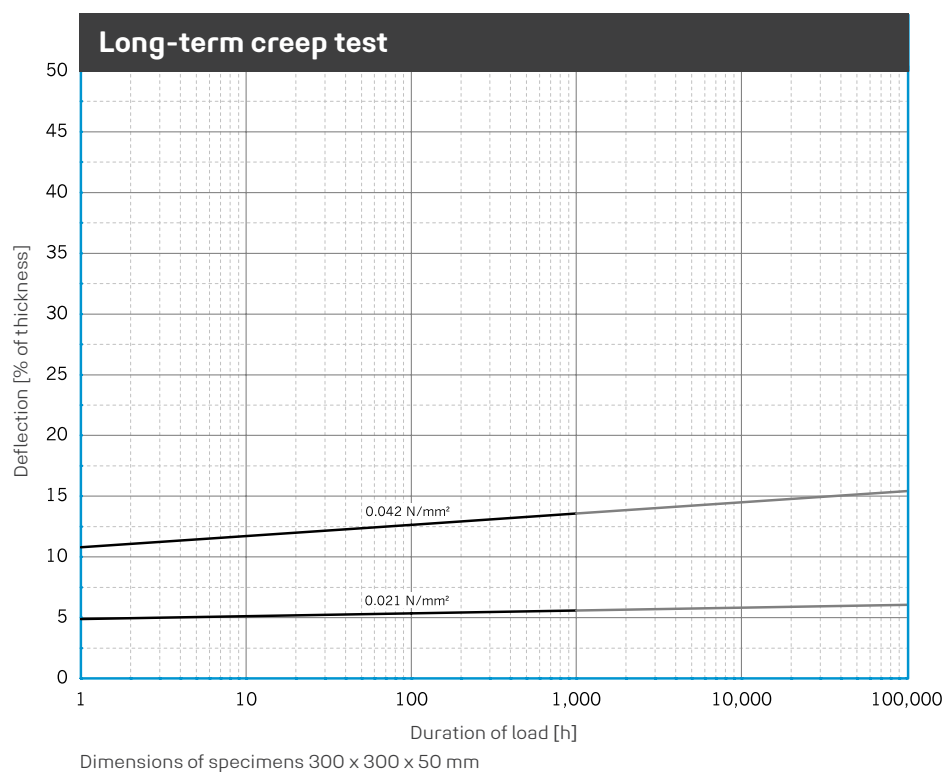


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

250	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
0.00	

N/mm²

REGUFOAM VIBRATION 270PLUS



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Forms of delivery

Rolls, ex warehouse

Thickness: 12.5 and 25 mm
Length: 5,000 mm
Width: 1,500 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity
0.055 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings
0 to 0.080 N/mm²

Rare, short term peak loads
up to 2.000 N/mm²

Certification

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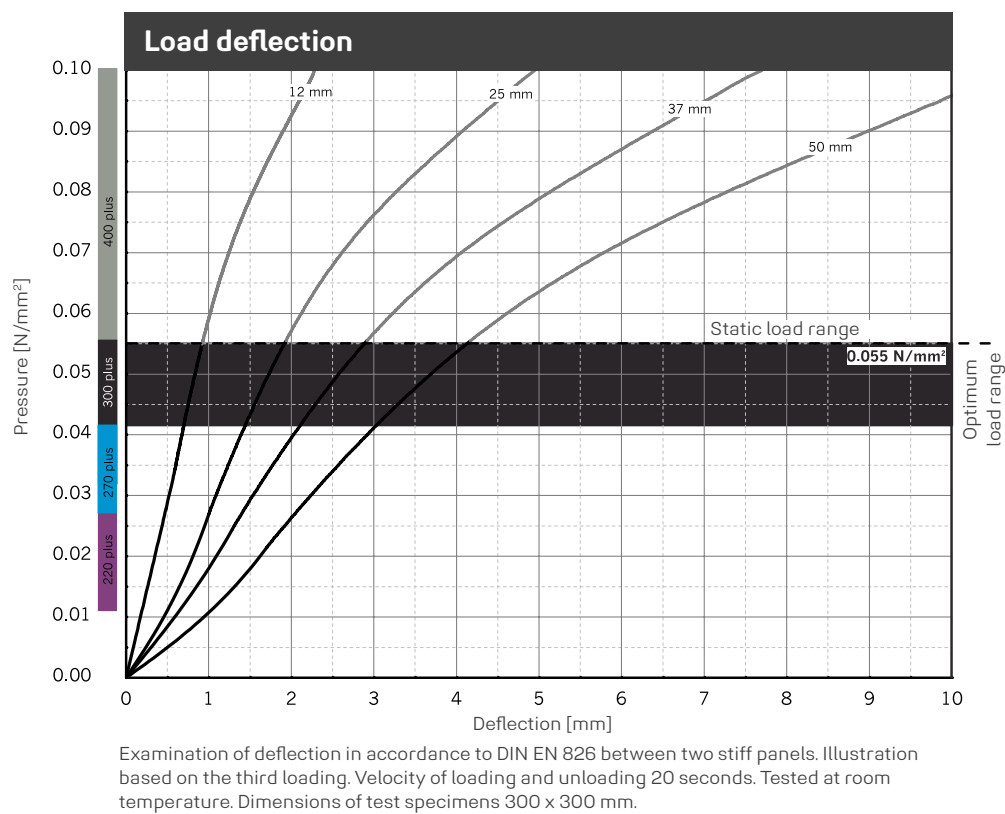
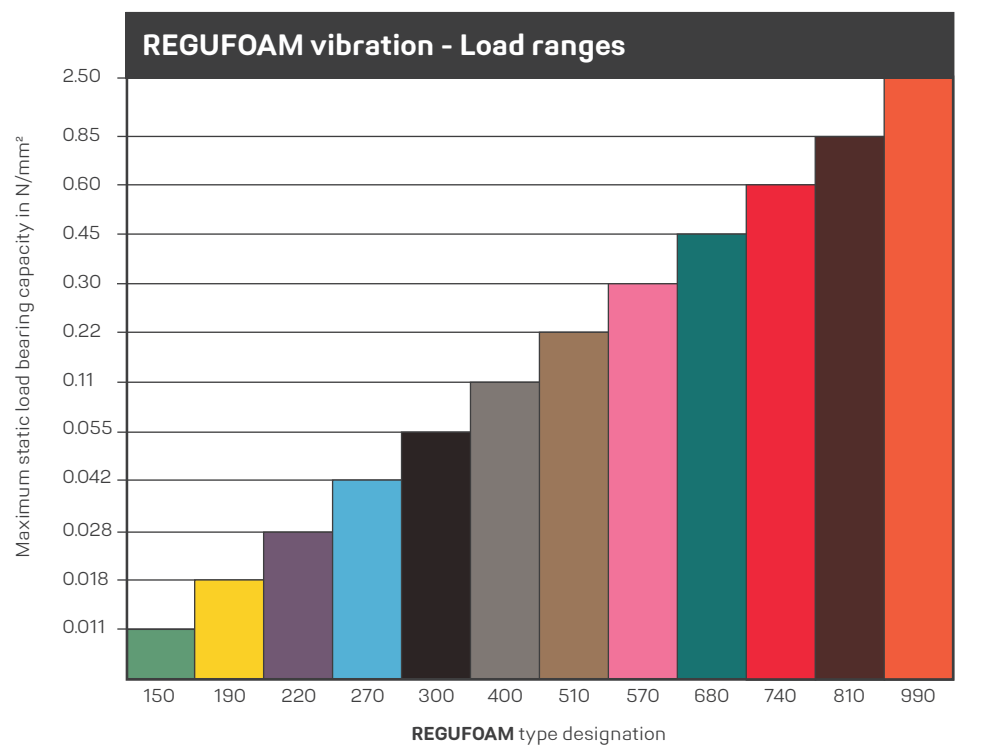
REGUFOAM vibration 300plus
is Cradle to Cradle Certified®
at the Bronze level.

Physical property	Norm	Result	Comment
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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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

REGUFOAM VIBRATION 300PLUS



REGUFOAM VIBRATION 300PLUS

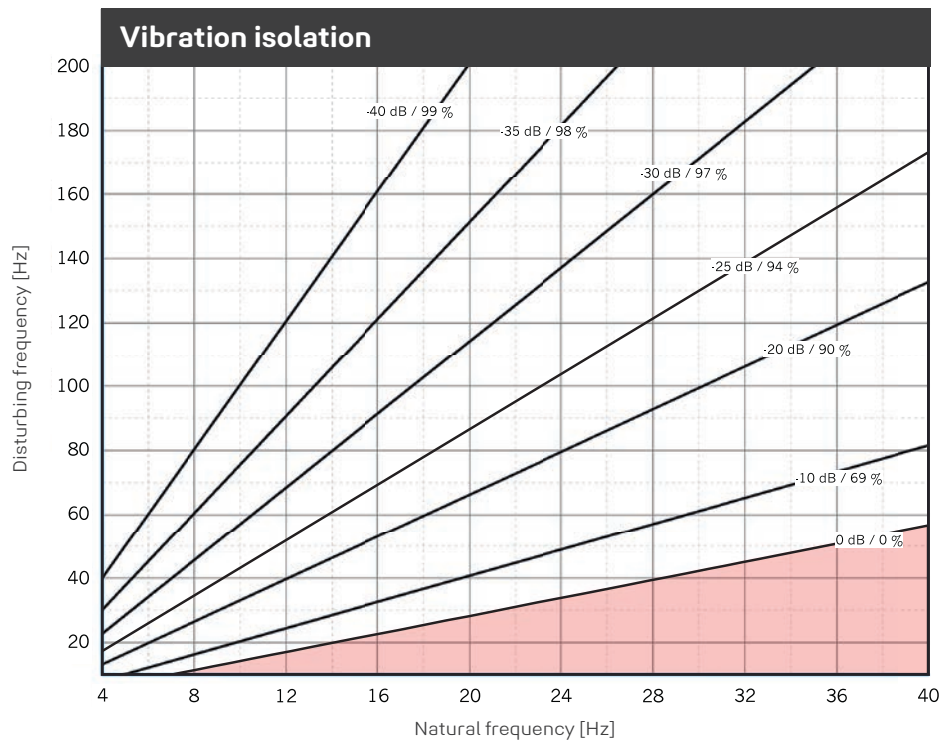
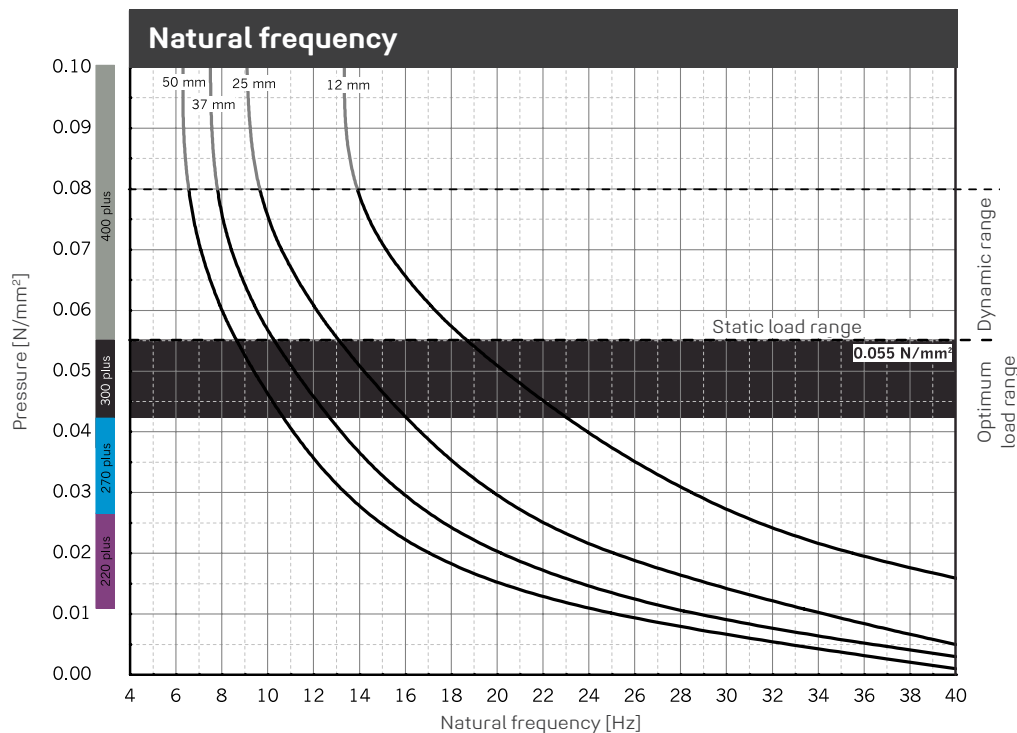
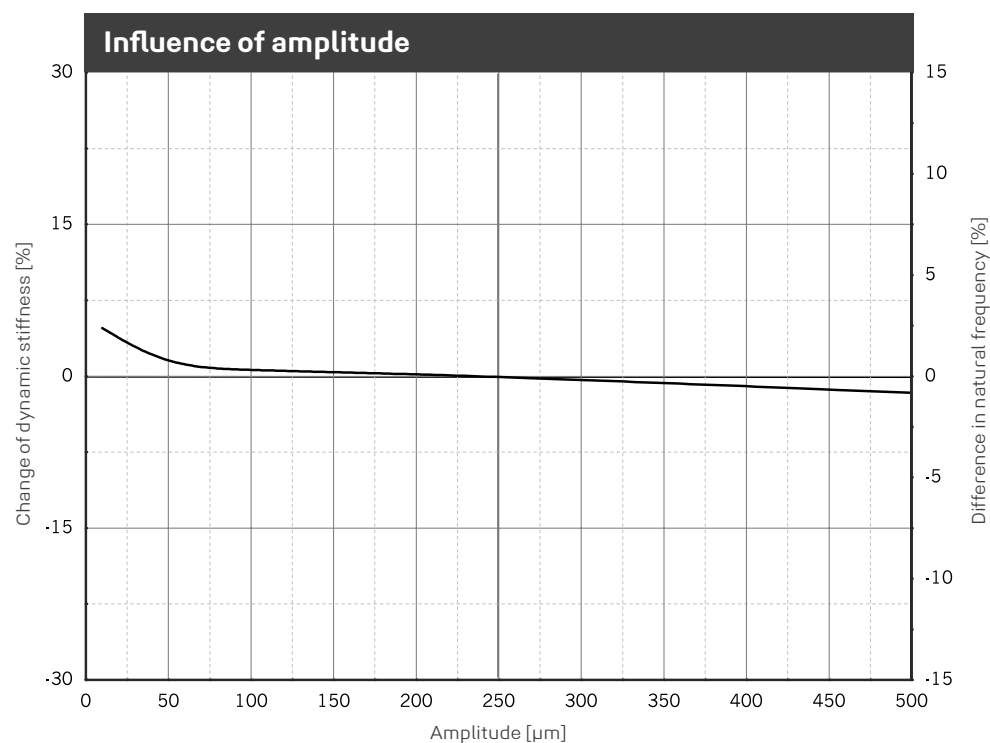


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 300plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

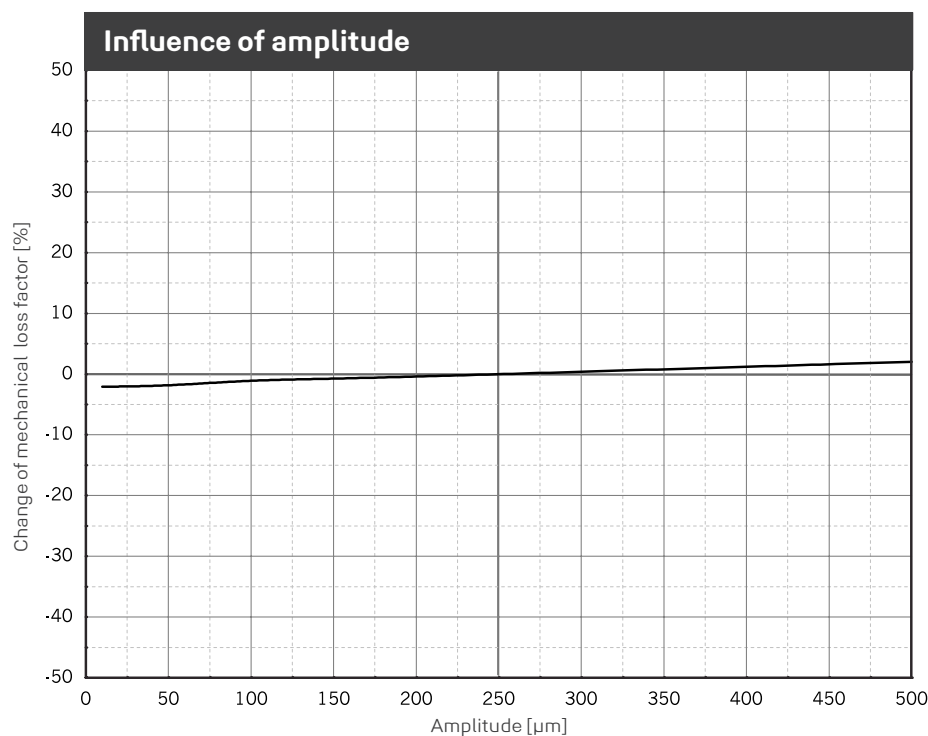


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 300plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

REGUFOAM VIBRATION 300PLUS



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 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of 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 x 300 x 25 mm.

REGUFOAM VIBRATION 300PLUS

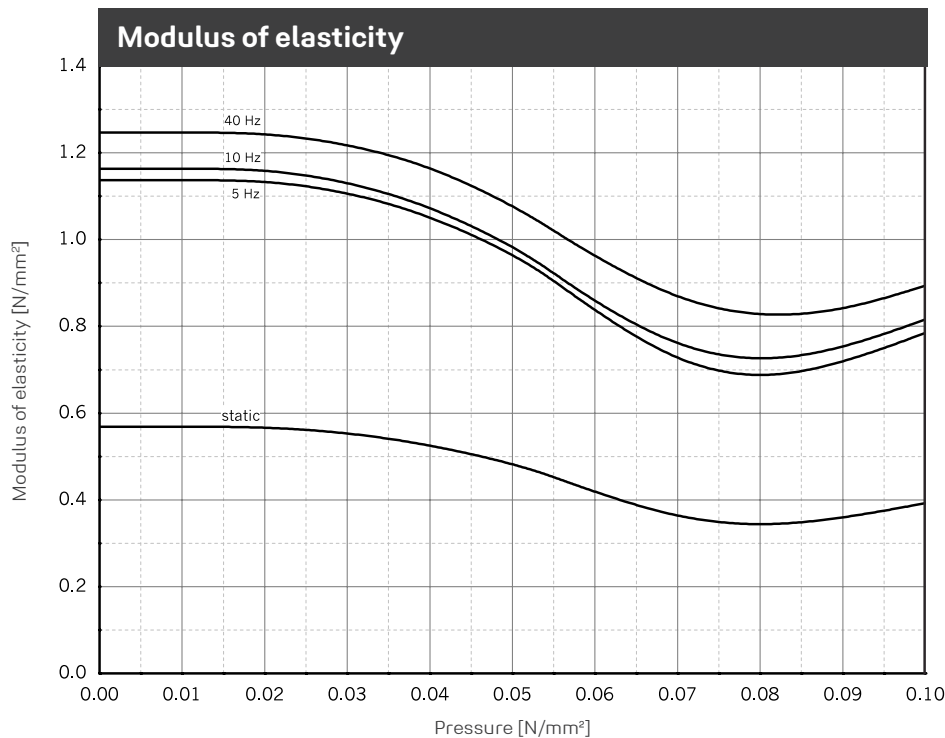


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

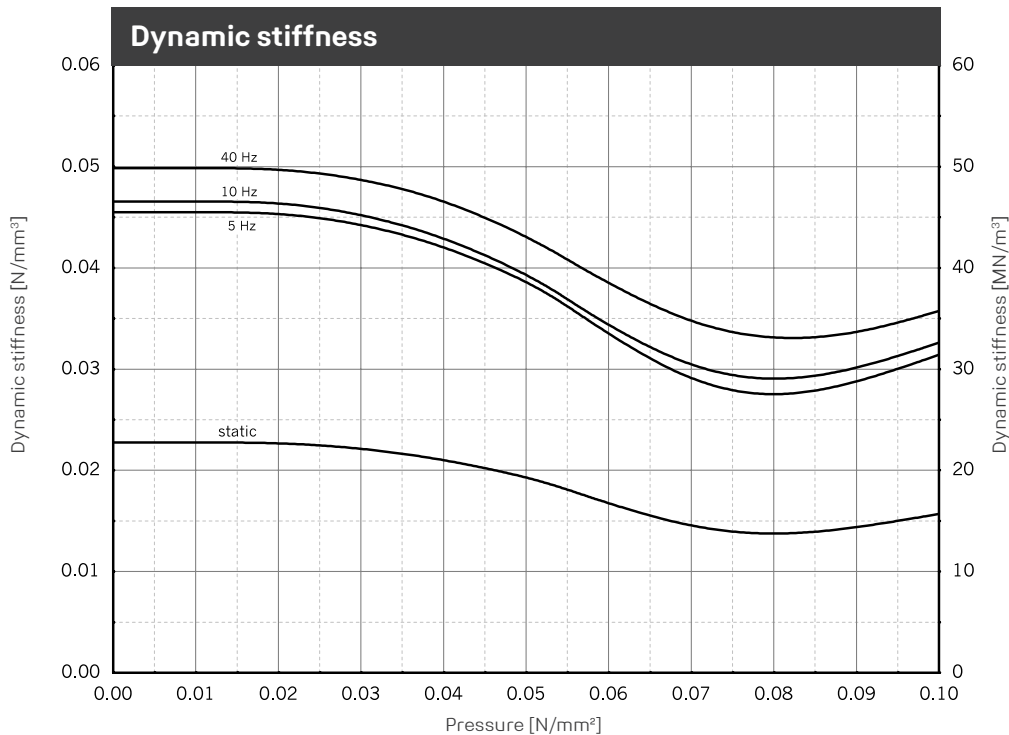
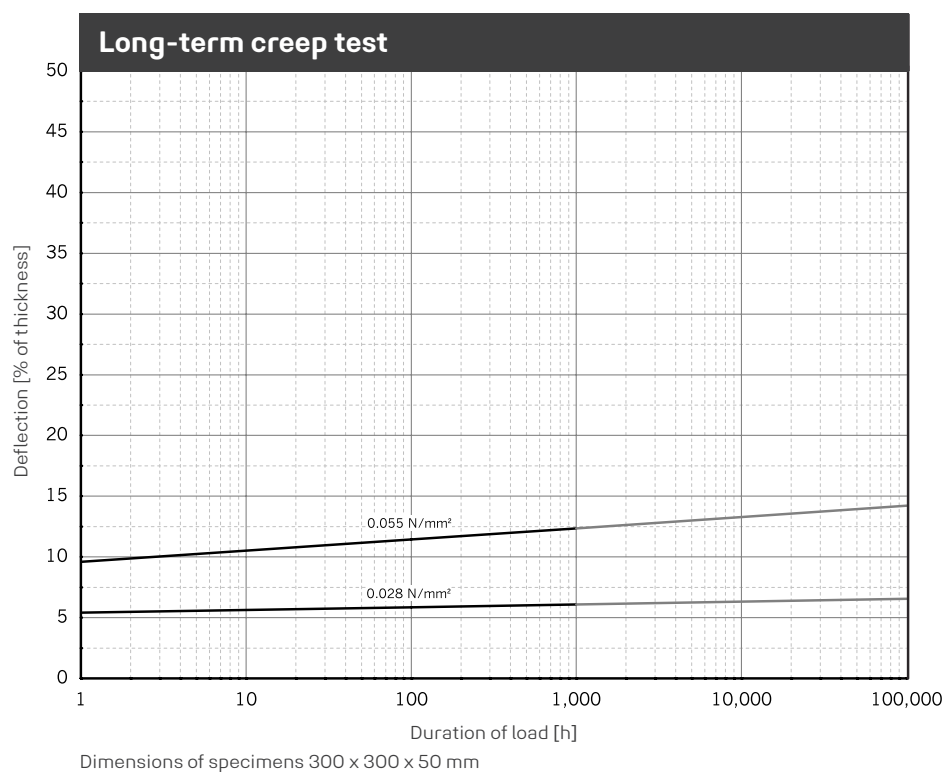


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

250	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
0.00	

N/mm²

REGUFOAM VIBRATION 300PLUS



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Forms of delivery

Sheets, ex warehouse

Thickness: 12.5 and 25 mm
Length: 1,500 mm
Width: 1,000 mm

Customized strips and pads, self-adhesive versions and special roll lengths available on request.

Technical details

Maximum static load bearing capacity

0.110 N/mm²

Maximum dynamic load bearing capacity
for intermitted loadings

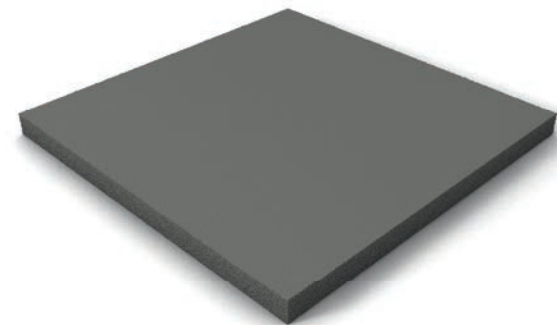
0 to 0.160 N/mm²

Rare, short term peak loads

up to 3.000 N/mm²

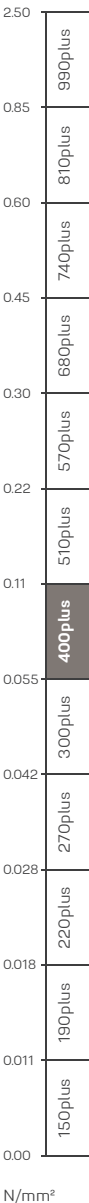
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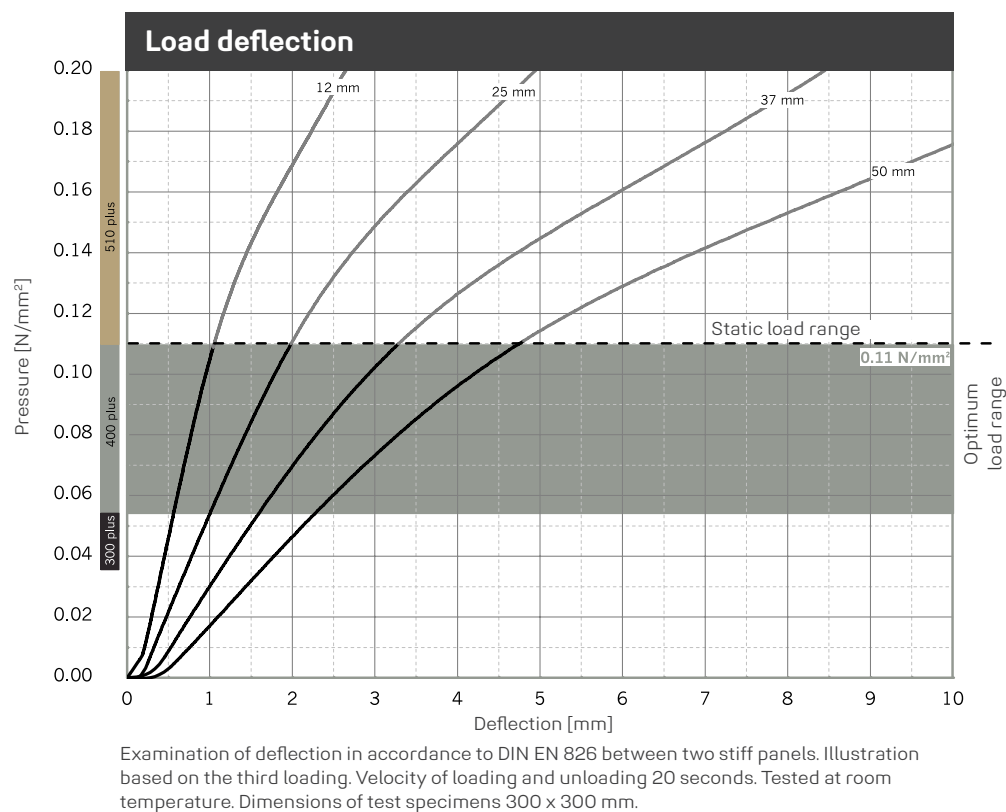
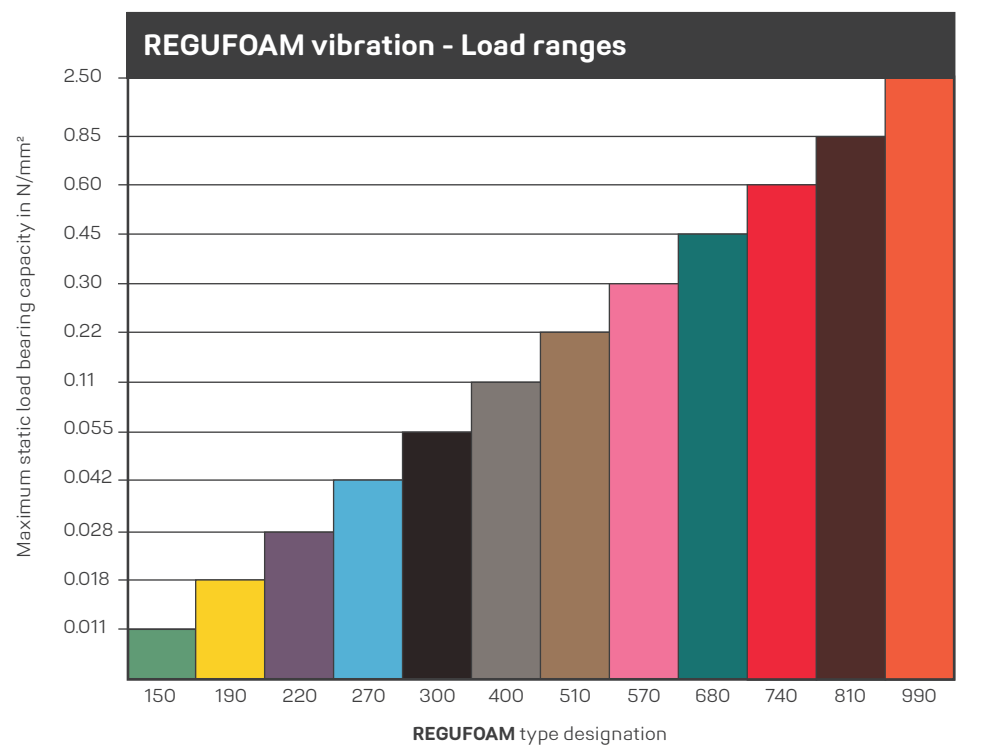
REGUFOAM vibration 400plus is Cradle to Cradle Certified® at the Bronze level.

Physical property	Norm	Result	Comment
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 13501-1	B2 E	
Sliding friction	REGUPOL-laboratory REGUPOL-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

REGUFOAM VIBRATION 400PLUS



REGUFOAM VIBRATION 400PLUS

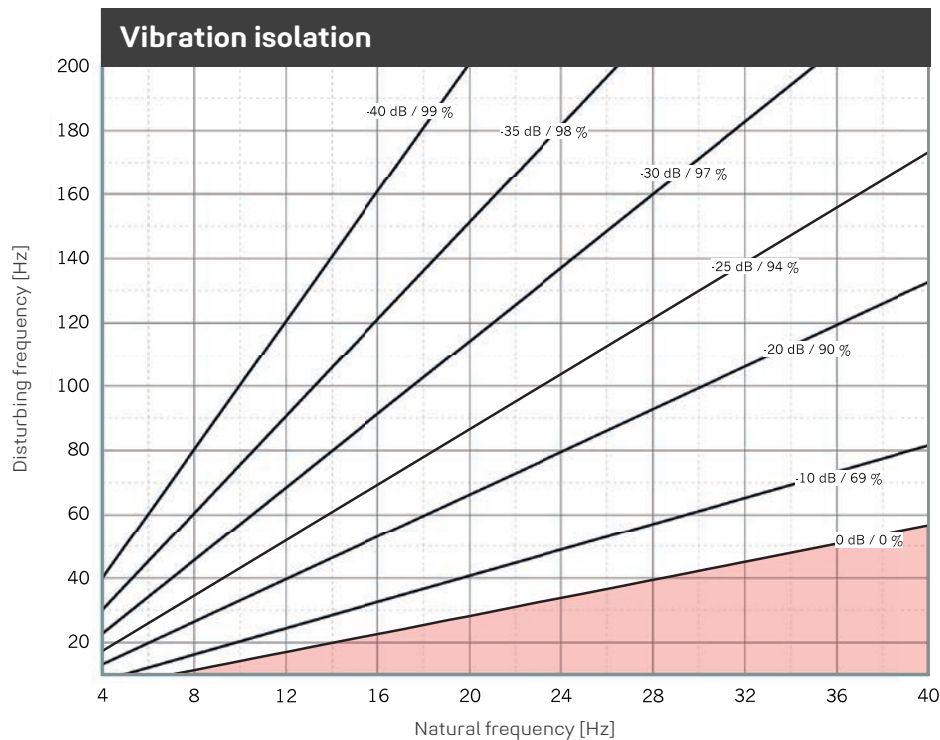
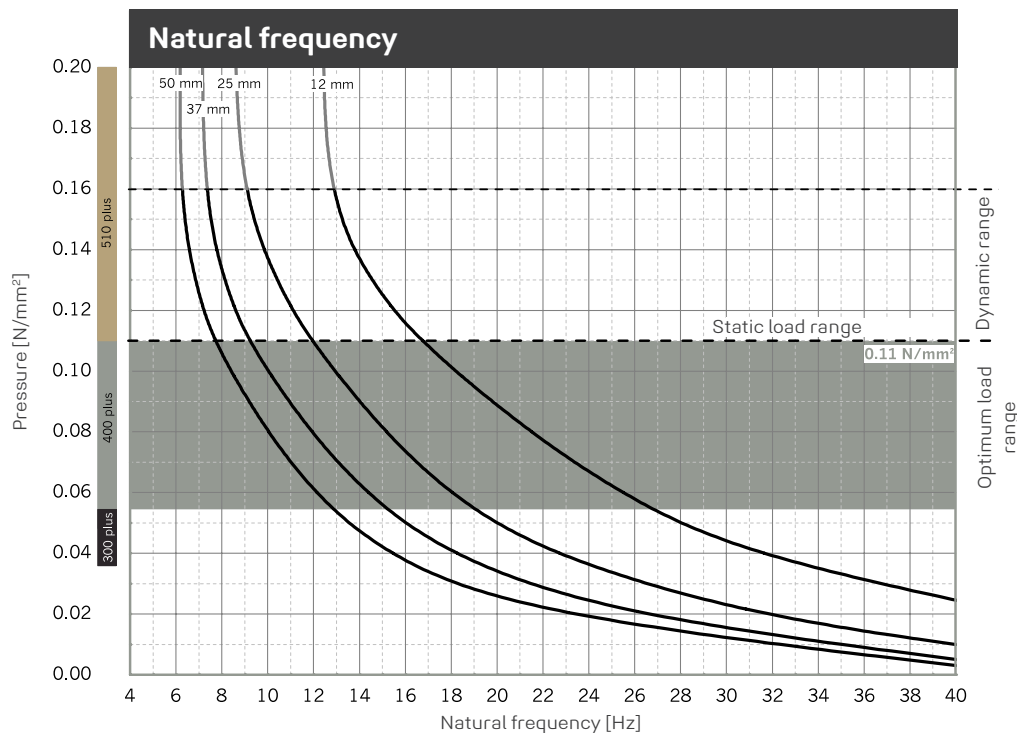
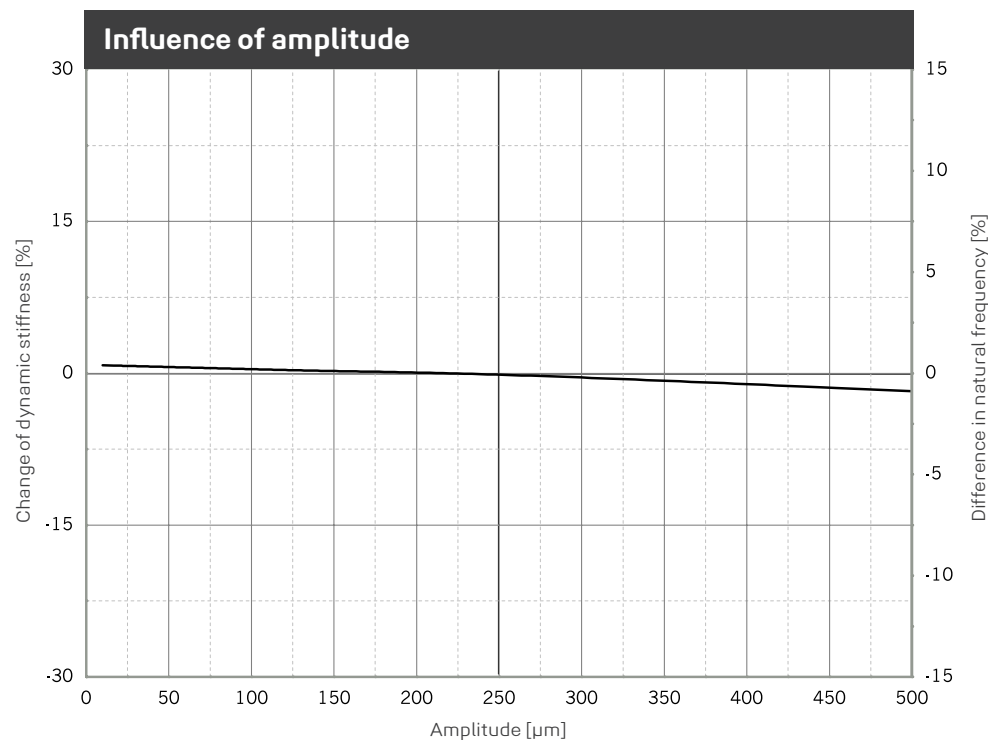


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 400plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

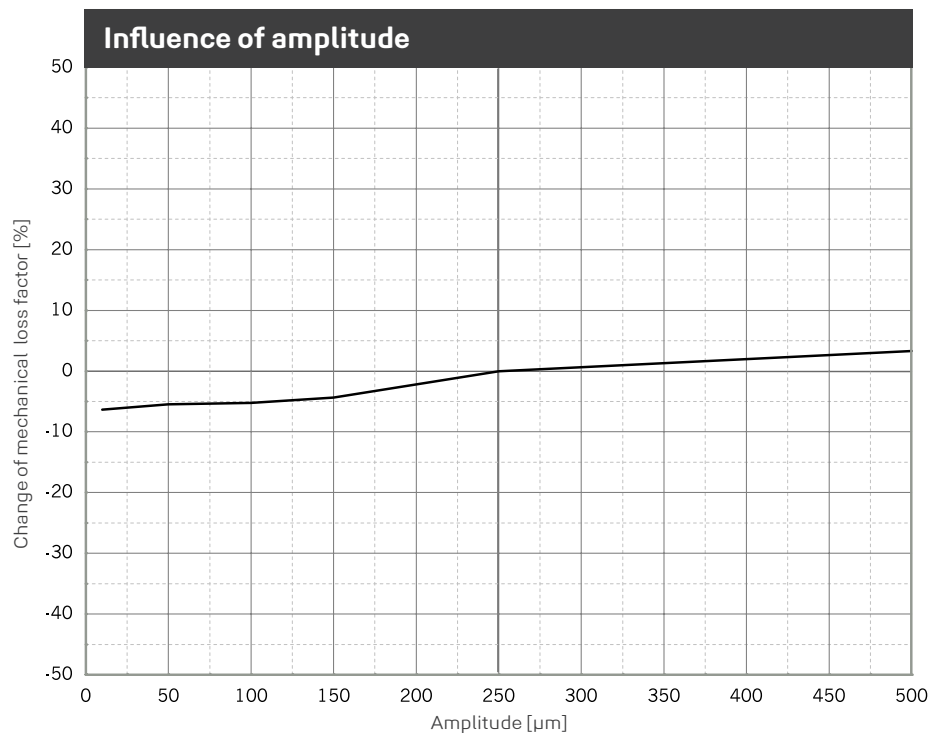


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 400plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.

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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 0.110 N/mm², dimensions of the specimens 300 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.110 N/mm², dimensions of the specimens 300 x 300 x 25 mm.

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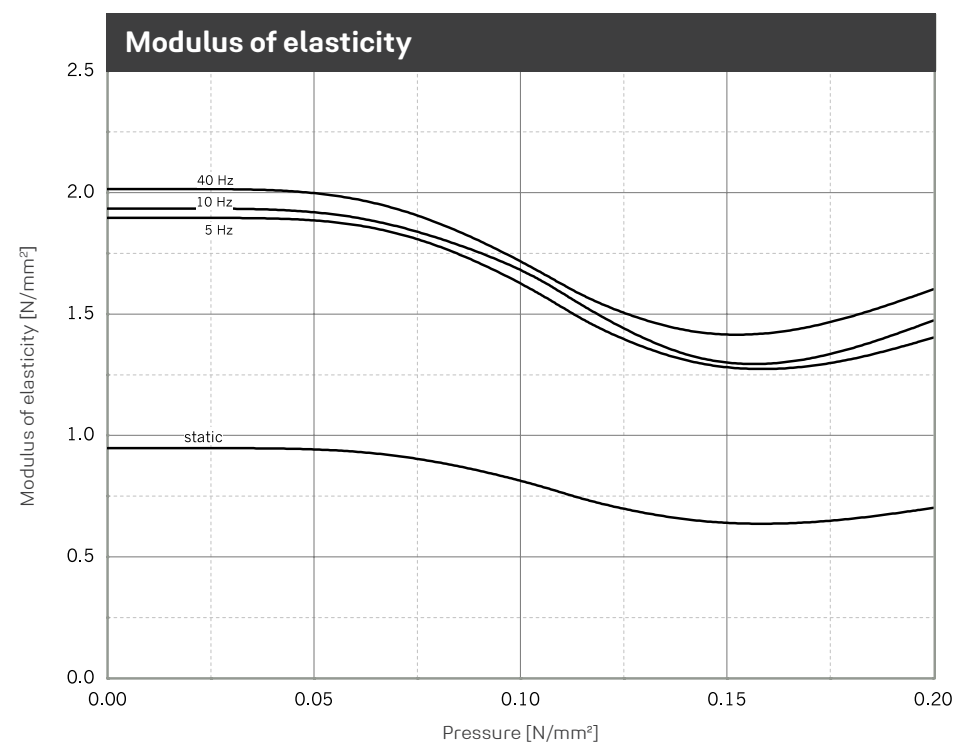


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

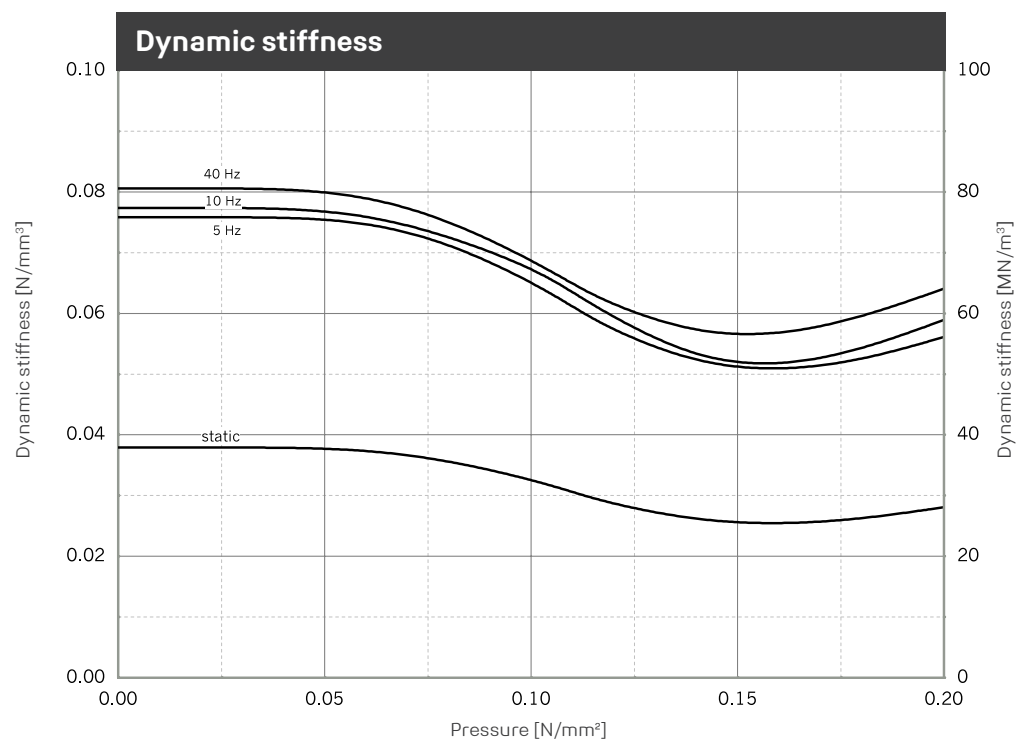
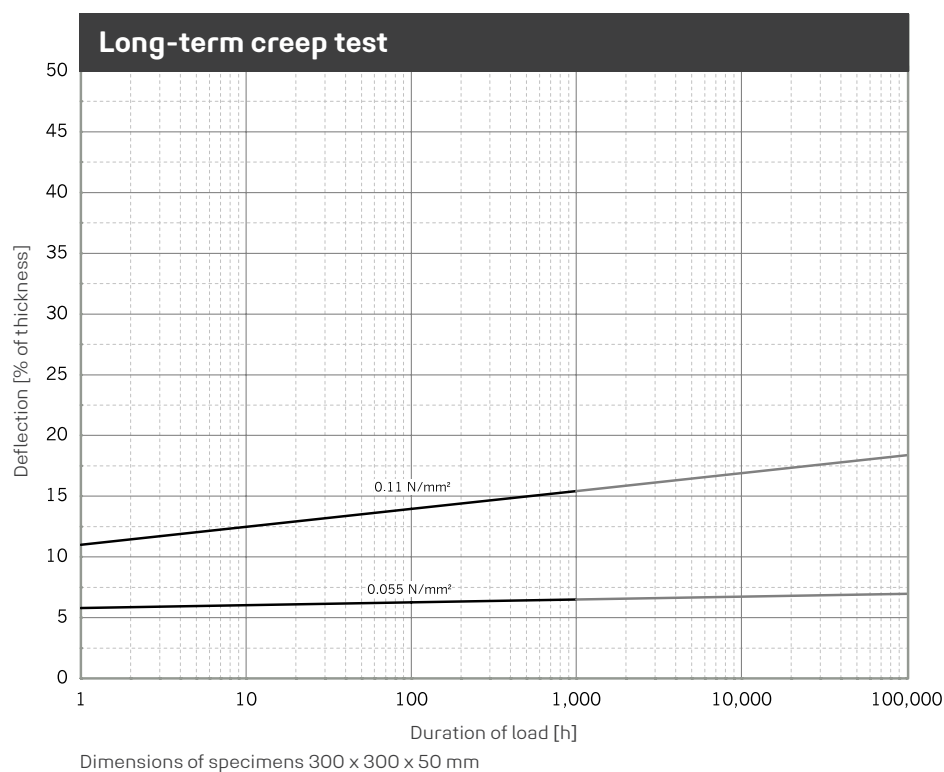


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

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