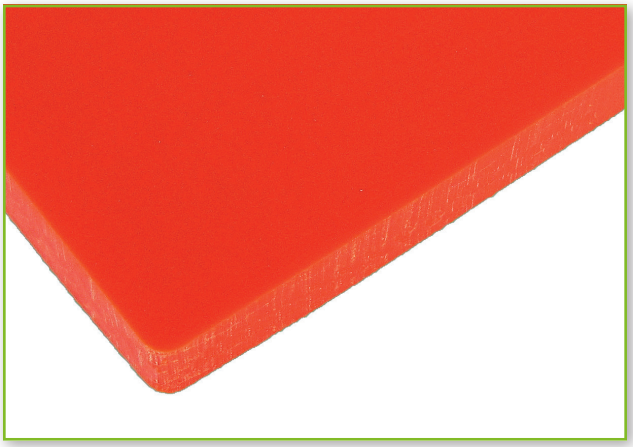
Regufoam® Vibration 990plus

Standard forms of delivery, ex Lebanon, PA

Sheets
Thickness: 25 mm and 12.5 mm
Custom thicknesses available on request
Length: 59" (1,500 mm)
Width: 3.3' (1,000 mm)

Max. static load
363.0 psi

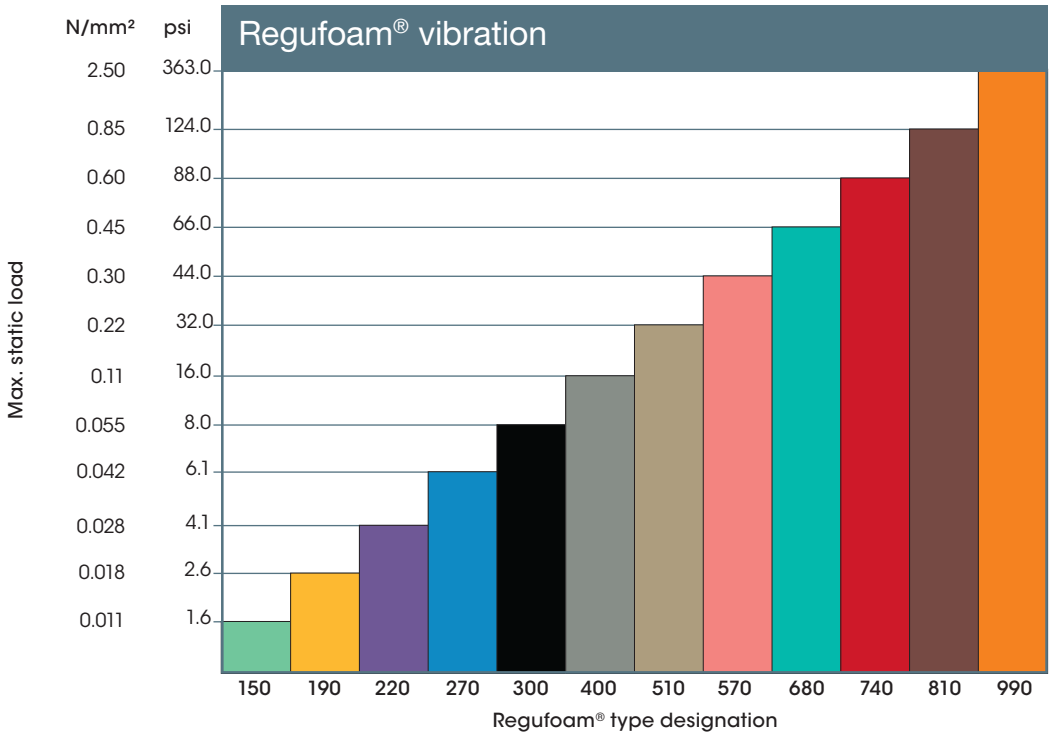
Peak loads (rare, short-term loads)
up to 1,160 psi



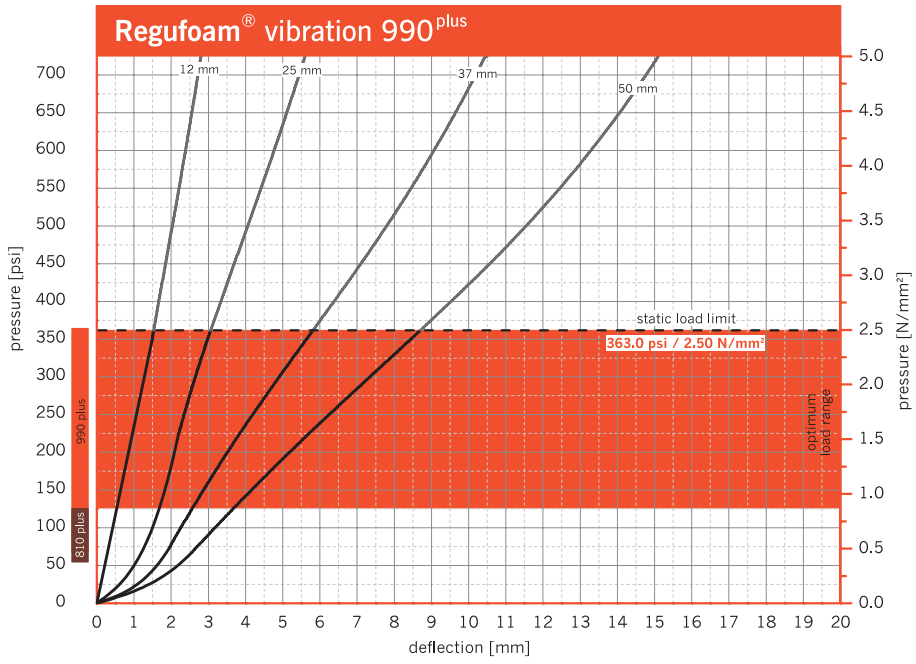
Color: Orange

Static modulus of elasticity	Based on EN 826	2,901 - 11,313 20.0 - 78.0	psi N/mm²	Tangential modulus, see figure "Modulus of elasticity"
Dynamic modulus of elasticity	Based on DIN 53513	5,947 - 23,206 41.0 - 160.0	psi 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	1,000.8 6.9	psi N/mm²	
Elongation at break	Based on DIN EN ISO 1798	190	%	
Tear resistance	Based on DIN ISO 34-1	197.0	lbs/in	
Sliding friction	In-house laboratory In-house 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	%	Depending on thickness, Test specimen h = 25 mm
Force reduction	DIN EN 14904	20	%	Depending on thickness, Test specimen h = 25 mm

Load Ranges

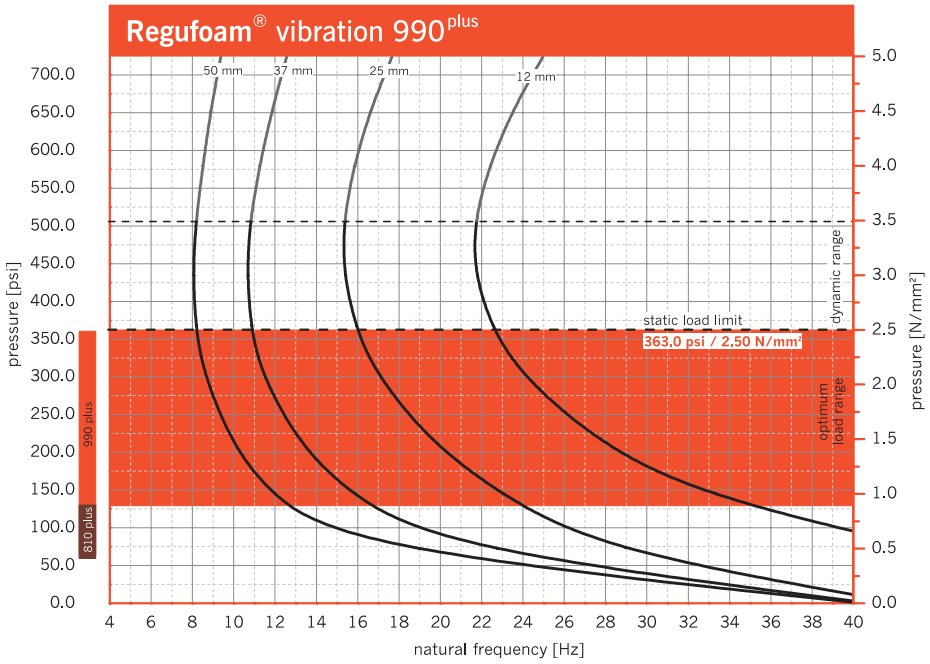


Load Deflection



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.

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.

Vibration Isolation

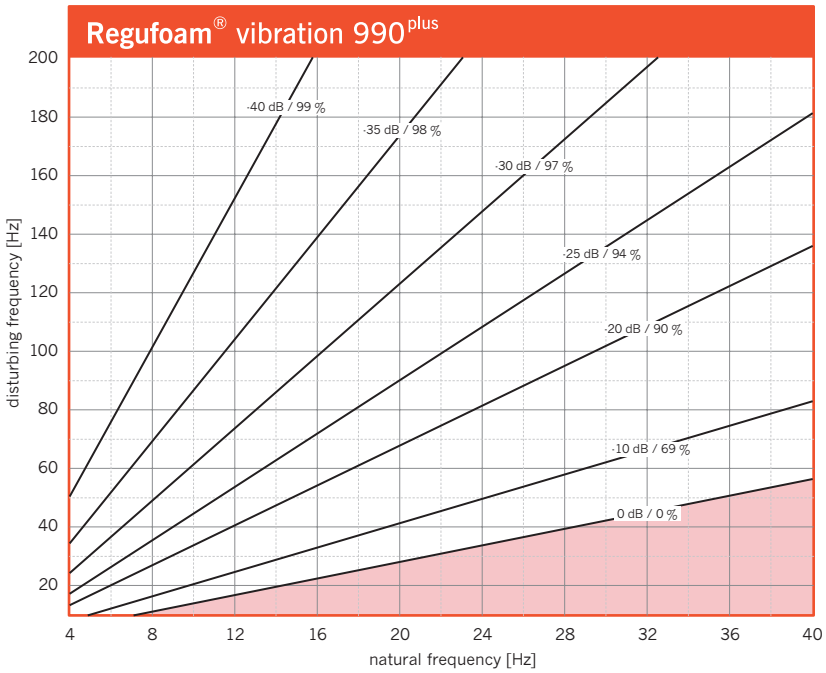


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 990 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Modulus of Elasticity

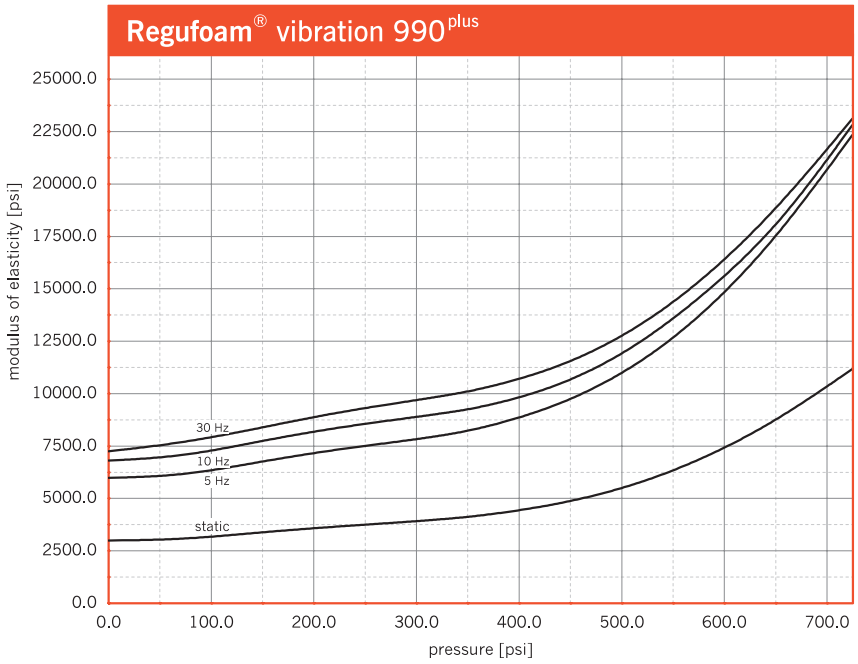


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0,10 mm. of +/- 0,25 mm. Dimensions of specimens 125 mm x 125 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

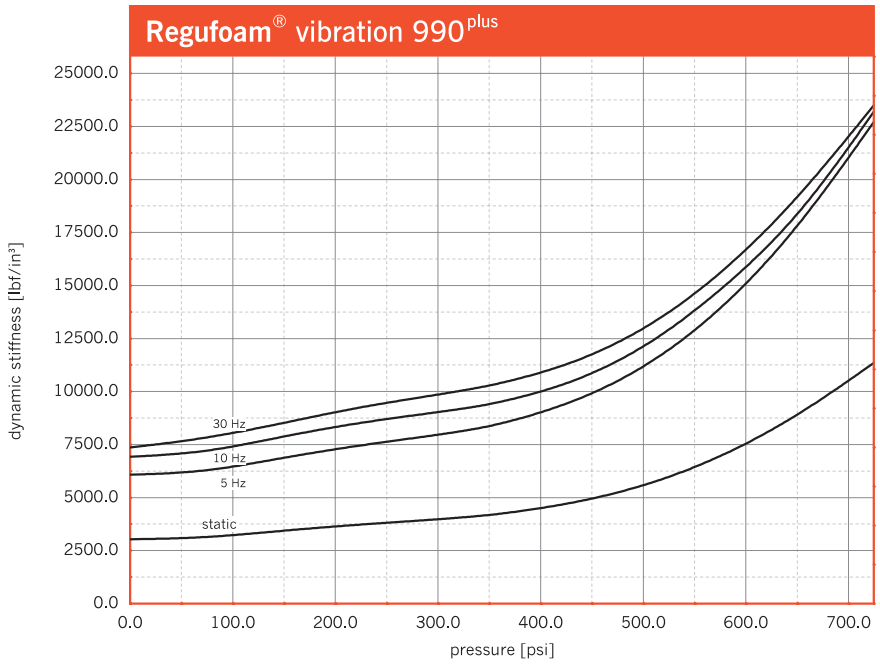
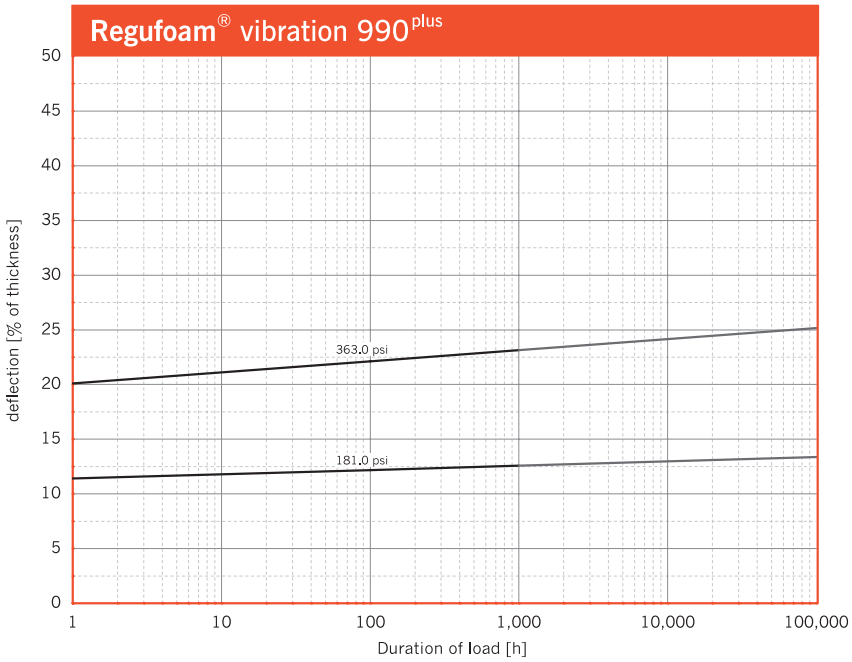


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0,10 mm. Dimension of specimens 125 x 125 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Long-Term Creep Test



Dimension of specimens 125 x 125 x 50 mm.

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