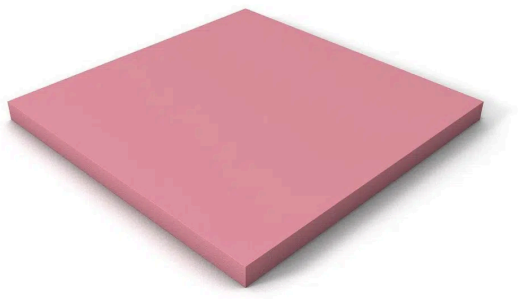


REGUFOAM Vibration Isolation

REGUFOAM vibration is an elastic polyurethane foam designed for optimal vibration isolation. It is available in twelve different densities and various thicknesses, now including thinner options, offering even more flexibility to suit diverse needs.

REGUFOAM vibration 570plus

Load range up to 0.30 N/mm². Depending on load and material thickness, natural frequencies of 10 Hz can be achieved.

Product Characteristics

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

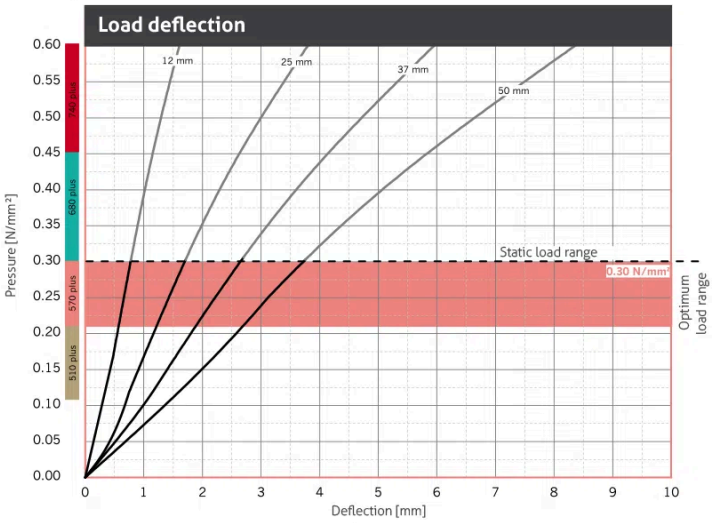
Standard forms of delivery, ex warehouse

Sheets
Thickness: 12.5 and 25 mm are standard, and regularly available off the shelf. Special thicknesses on request
Length: 1500 mm, special lengths available on request
Width: 1000 mm

Strips or pads
On request: Die-cutting, water-jet cutting, self-adhesive versions possible

On request we can tailer to your needs and produce 75, 50, 37.5, 25, 12.5, 6 mm all the way down to 2 mm thicknesses.

Technical Specifications



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.

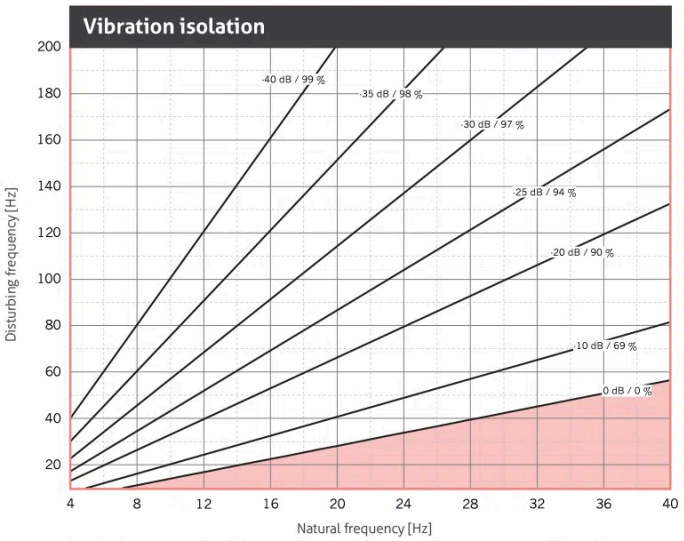
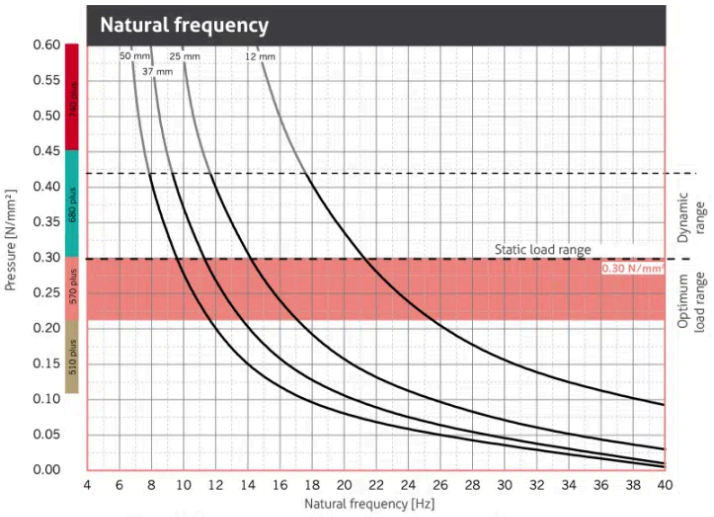
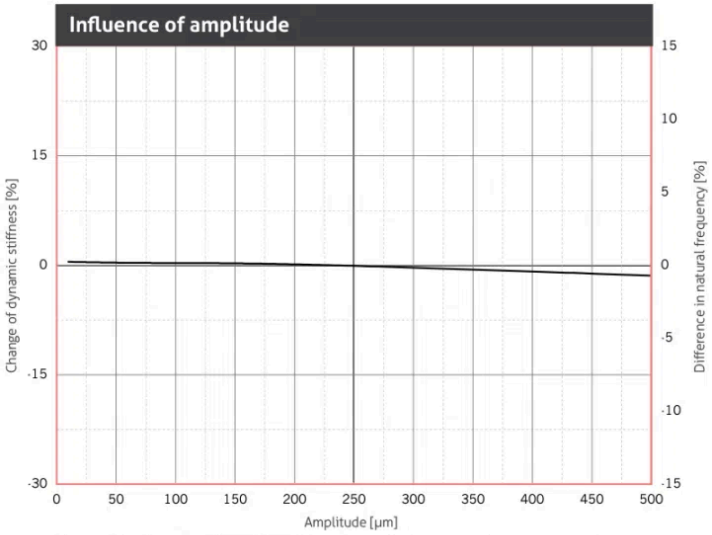


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 570plus.** Parameter: power transmission (insertion loss) in dB, isolation factor in %.



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.



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.

REGUFOAM vibration 570plus technical specifications

regufoam-570-specifications.xlsx

REGUFOAM vibration 570plus

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 fi gure “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	B2	
	DIN EN 13501-1	E	
Sliding friction	REGUPOL-laboratory	0.6	Steel (dry)
	REGUPOL-laboratory	0.7	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

VIBRATEC

Contact information

Sweden	Norway	Denmark	Estonia	Finland	India
+46 176207880 info@vibratec.se	+47 33070750 info@vibratec.no	+45 49132244 info@vibratec.dk	+372 56627990 info@vibratec.ee	+35 8402589117 palvelu@3di.fi	+91 7755996308 rc@vibratec.in

vibratec.org/linkedin vibratec.org/youtube vibratec.org/vimeo