

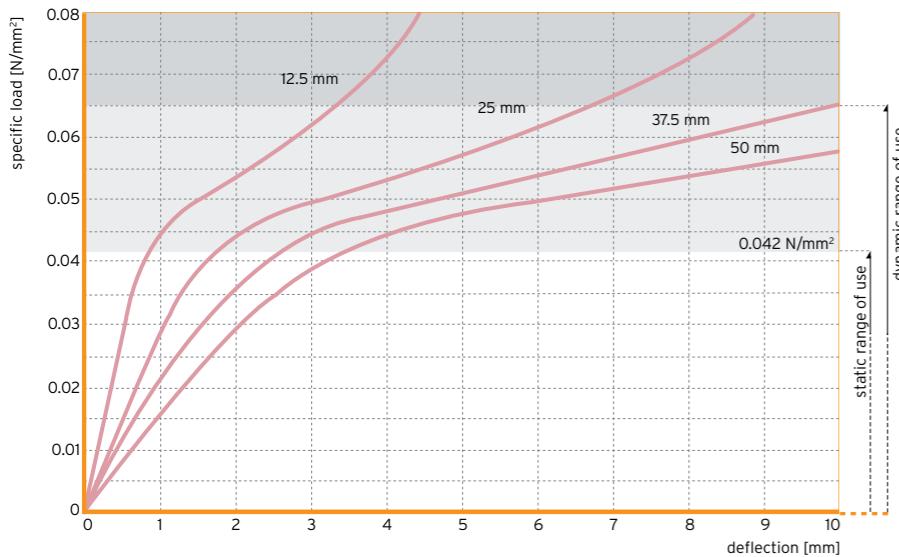
Load deflection curve

Figure 1: Quasistatic load deflection curve measured with a loading rate of 0.0042 N/mm²/s

Testing between flat steel-plates;
recording of the 3rd loading;
testing at room temperature

shape factor 3

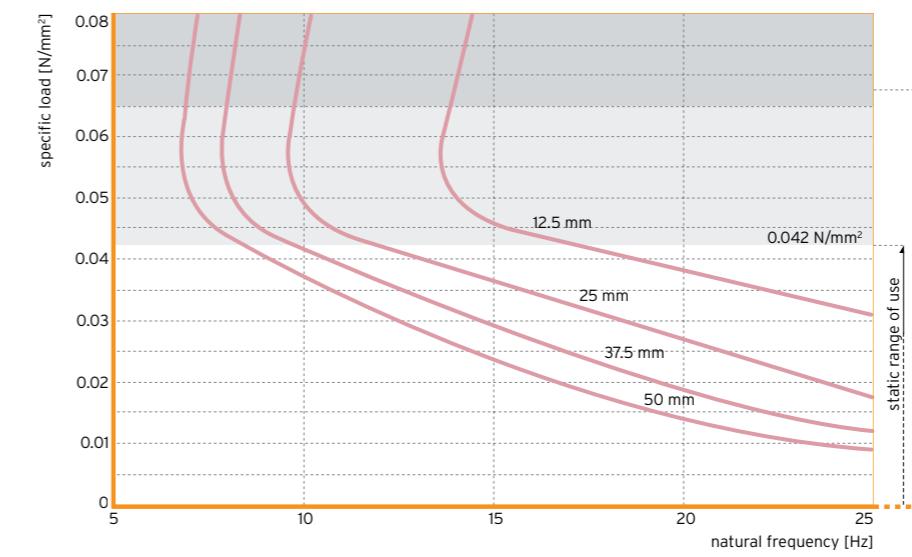
Natural frequency

Figure 3: natural frequency of a single-degree-of-freedom system (SDOF system) consisting of a fixed mass and an elastic bearing consisting of Sylomer SR 42 based on a stiff subgrade;

parameter: thickness of elastomeric bearing

shape factor 3

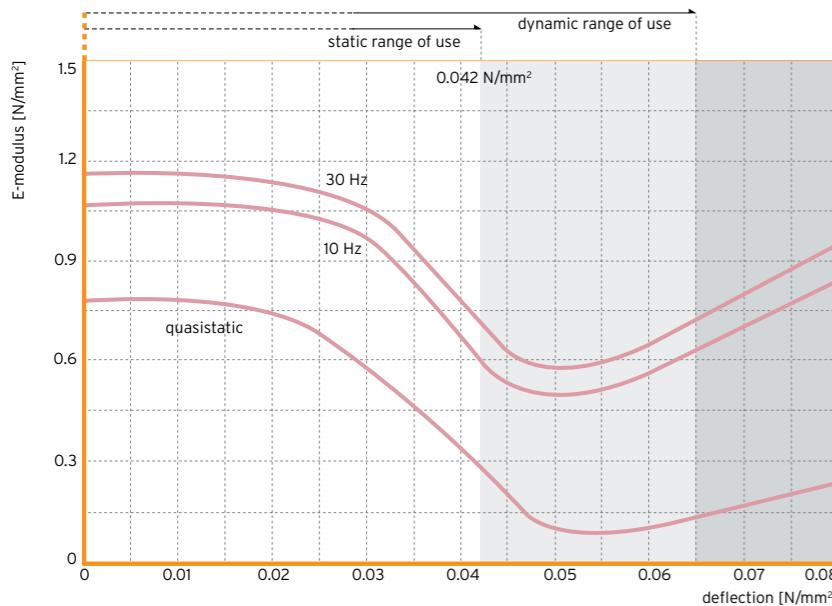
Modulus of elasticity

Figure 2: load dependency of the static and dynamic E-modulus

Quasistatic E-modulus as a tangent modulus taken from the load deflection curve; dynamic modulus of elasticity due to sinusoidal excitation with a velocity level of 100 dBv re. $5 \cdot 10^{-8}$ m/s (equal to an oscillating range of 0.22 mm at 10 Hz and 0.08 mm at 30 Hz, see also in the glossary)

test according to DIN 53513

shape factor 3

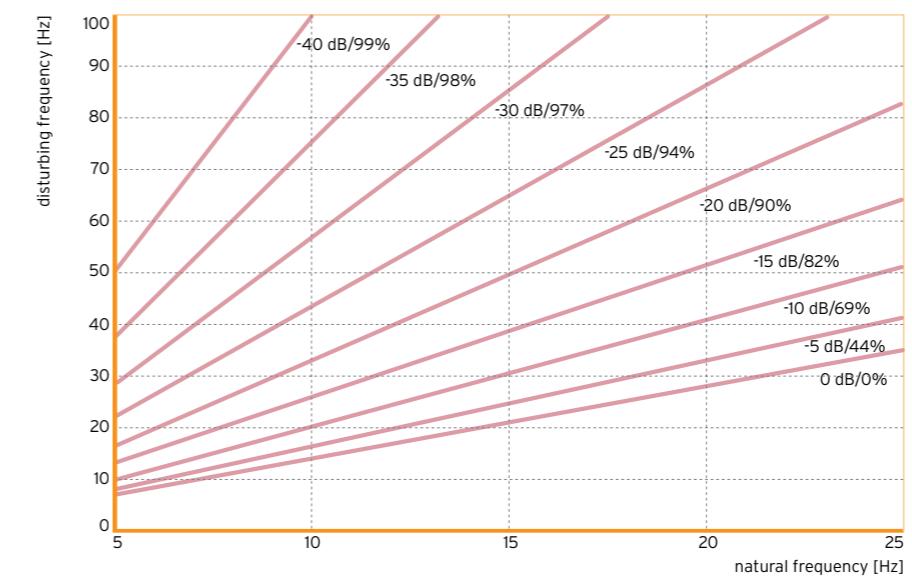
Vibration isolation efficiency

Figure 4: reduction of the transmitted mechanical vibrations by implementation of an elastic bearing consisting of Sylomer SR 42

parameter: factor of transmission in dB, isolation rate in %