Citrigon® 225

Elastomeric bearing for vibration isolation

Citrigon® 225 is a high-strength elastomeric bearing. It is suitable for vibration isolation of machines or for vibration protection of buildings. The **characteristic individual load** that can be permanently absorbed is **600 KN**.

If Citrigon® 225 is to be installed as vibration protection on pile heads or on the rising structural elements, prefabricated modules can be supplied. This is an easy way to support larger areas. The modules consist of several Citrigon® 225 bearings and a lost formwork. After the butt joints have been taped and the entire surface area of the bearings has been covered with a construction foil, concrete can be poured directly on top of it.

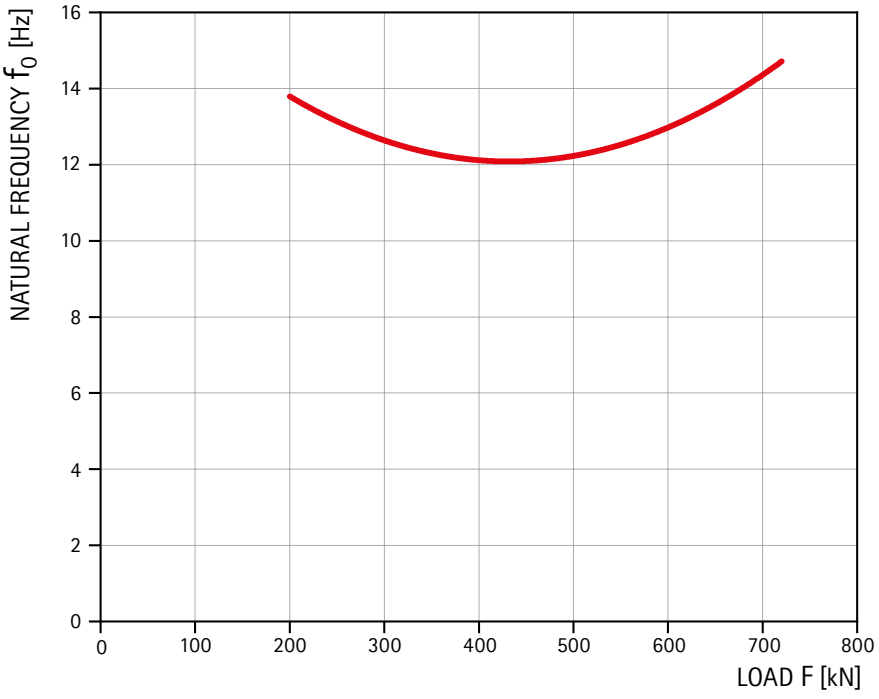
Our technical department will be happy to assist you in finding the right solution.

Product information

DIMENSIONS AND WEIGHTS	
Bearing size	200 mm x 200 mm
Thickness	50 mm
Weight	≈ 4.8 kg / m²

PROPERTIES	
Materials	NR rubber with reinforcement of weatherproof steel
Permanent load	600 kN
Permanent load + dynamic load	720 kN
Load peaks (occasional and short-term)	900 kN
Thermal stability	-40°C + 70°C
Flammability	B2 acc. to DIN 4102 (normally combustible)
Water absorption	No water absorption

Natural frequency



NATURAL FREQUENCY CURVE

The natural frequency f_0 of an ideal single-mass oscillator mounted on Citrigon® 225 is an essential characteristic for the evaluation of the vibration damping effect. The figure shows f_0 in dependence from the vertical load F.

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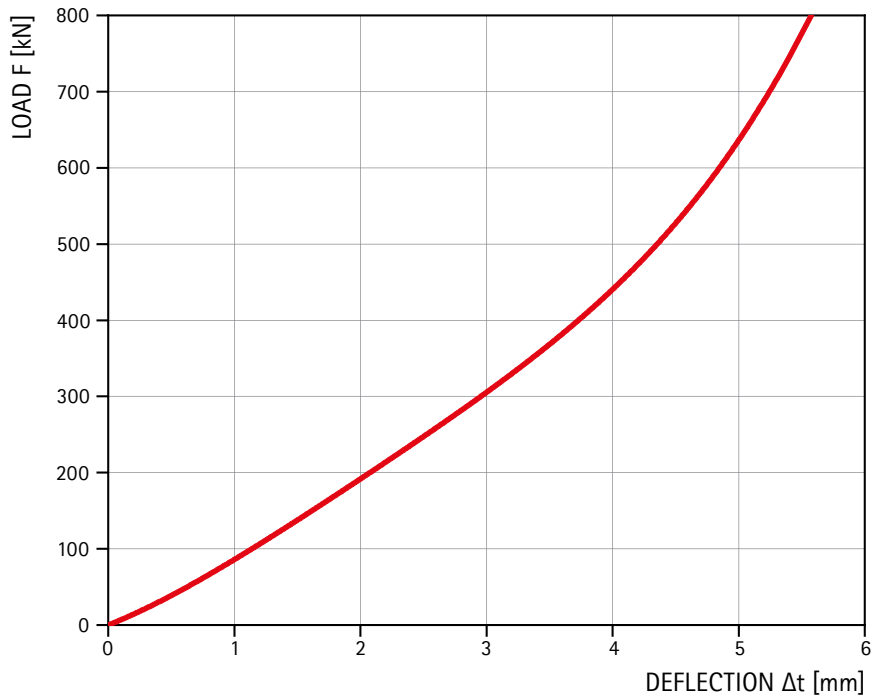
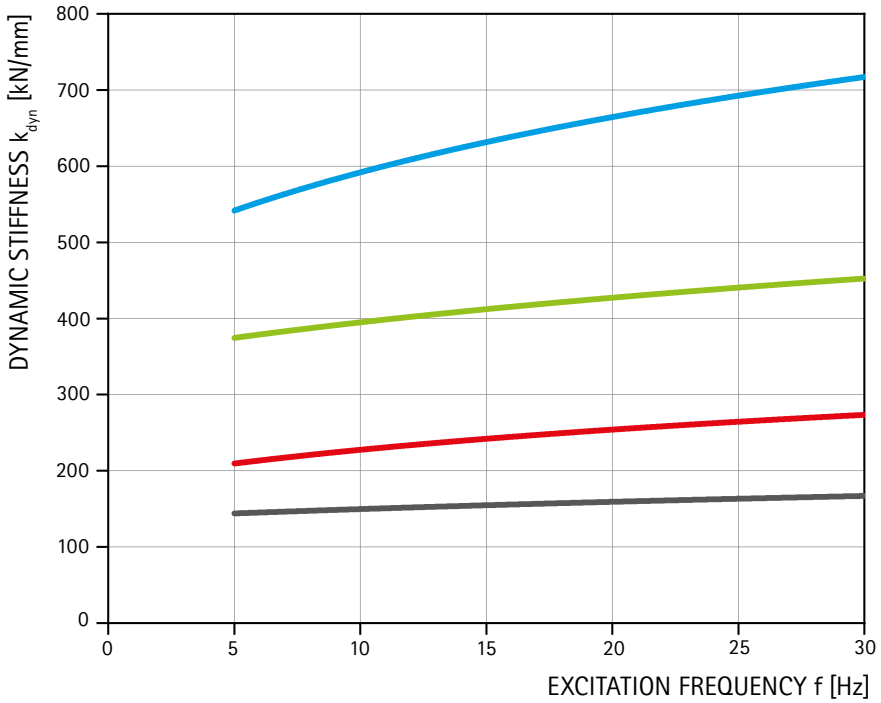
Load deflection



LOAD DEFLECTION CURVE

The figure shows the load deflection curve of Citrigon® 225

Dynamic stiffness



DYNAMIC STIFFNESS CURVE

The dynamic stiffness k_{dyn} of Citrigon® 225 depends on the load F and the excitation frequency f. The figure shows k_{dyn} in dependence from f for various loads. The values were determined by tests with a constant excitation amplitude of 1 mm/s.

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