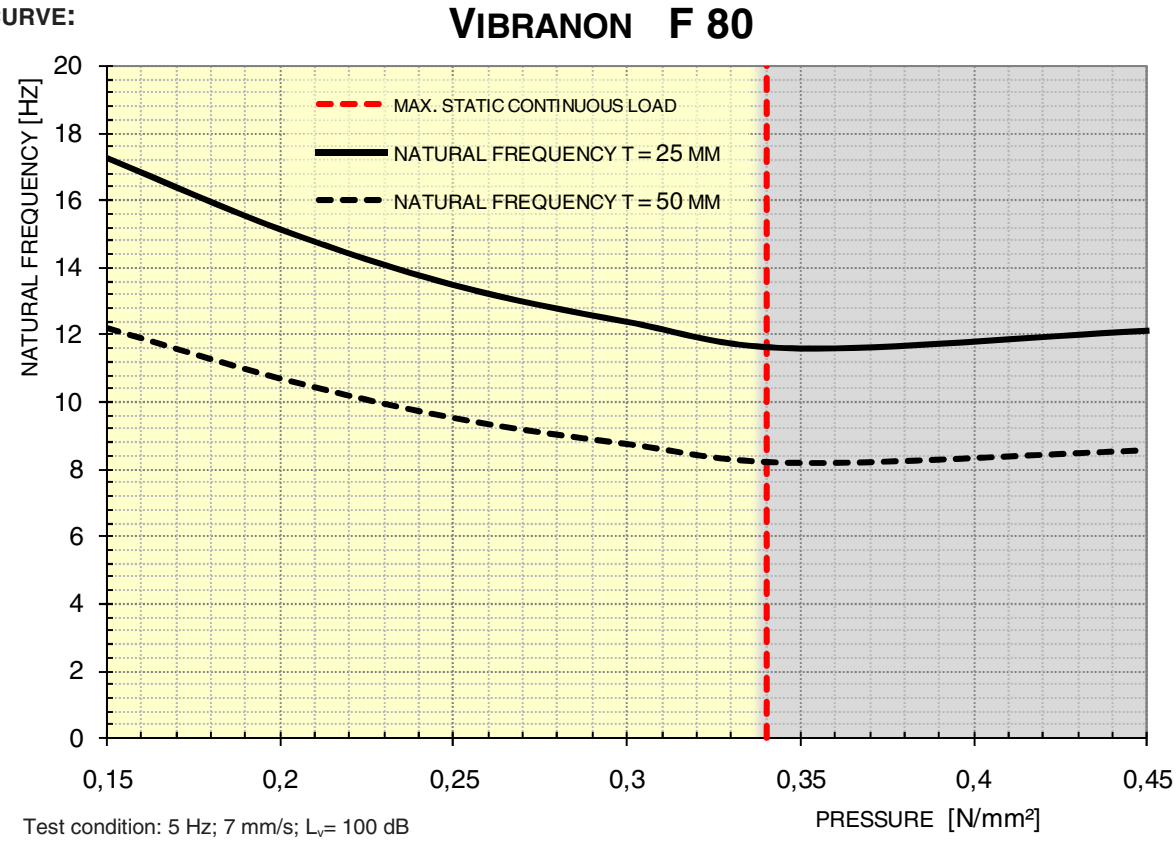
ESZ W. Becker GmbH | Weilerhöfe 1 | D-41564 Kaarst-Büttgen | Tel.: 02131 - 75 81 00 | Fax: 02131 - 75 81 11
E-Mail: info@esz-becker.de | Internet: www.vibranon.de

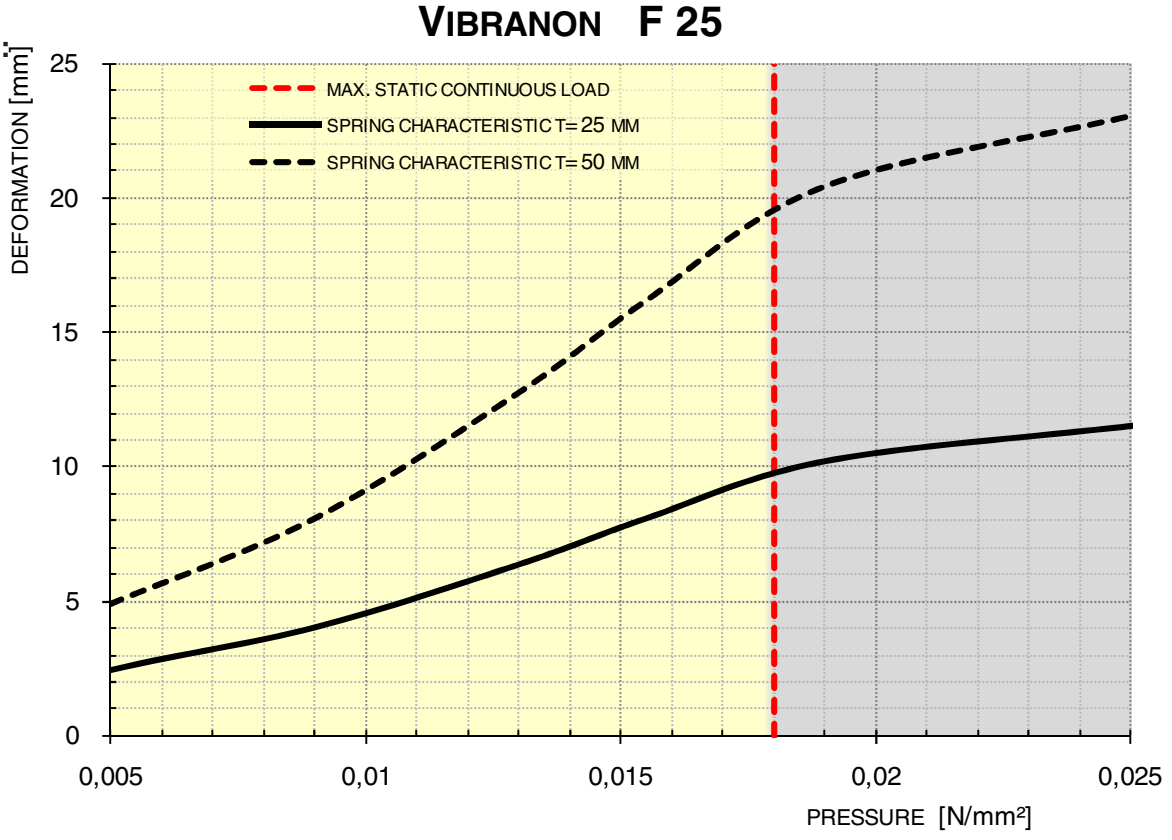
DATA FOR NATURAL FREQUENCY AND SPRING CHARACTERISTIC

1. FREQUENCY CURVE:



Test condition: 5 Hz; 7 mm/s; L_v= 100 dB

2. SPRING CHARACTERISTIC:



All data correspond to extensive research results and practical findings. Unless expressly agreed upon, however, they do not represent a guarantee in a legal sense.

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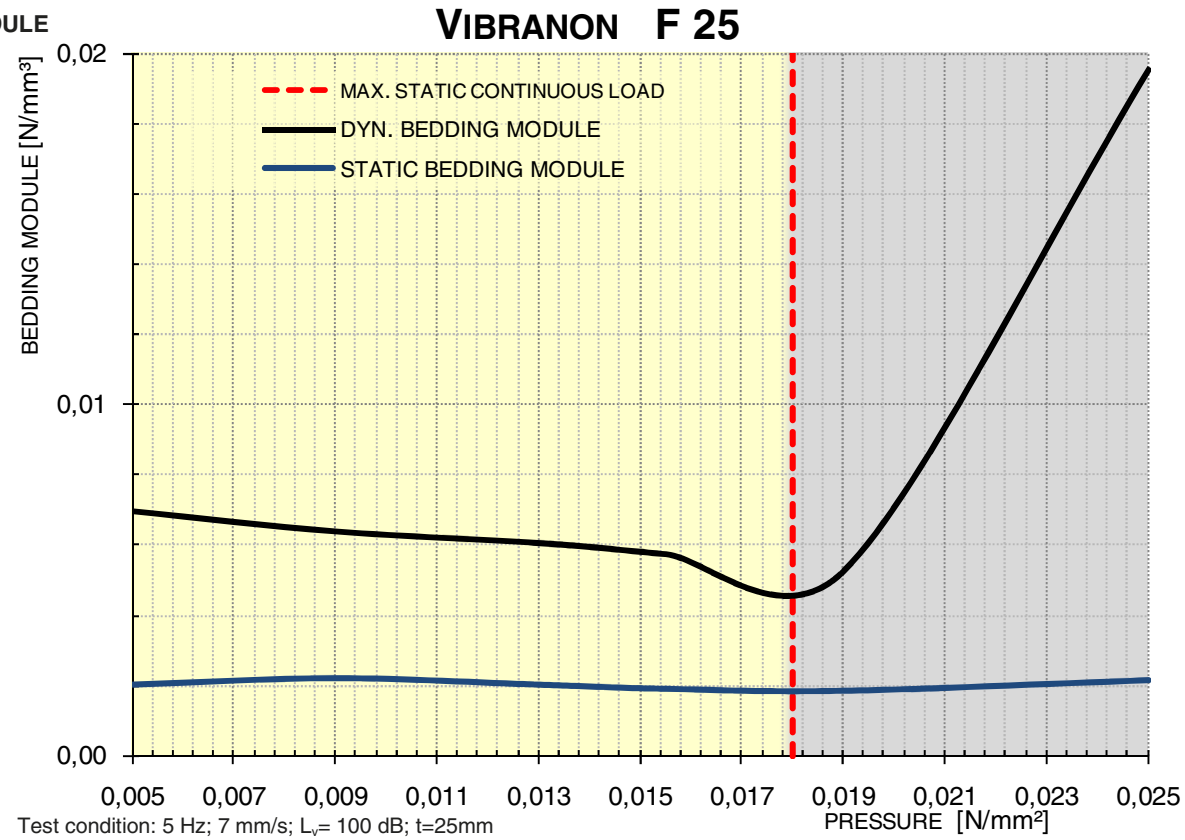
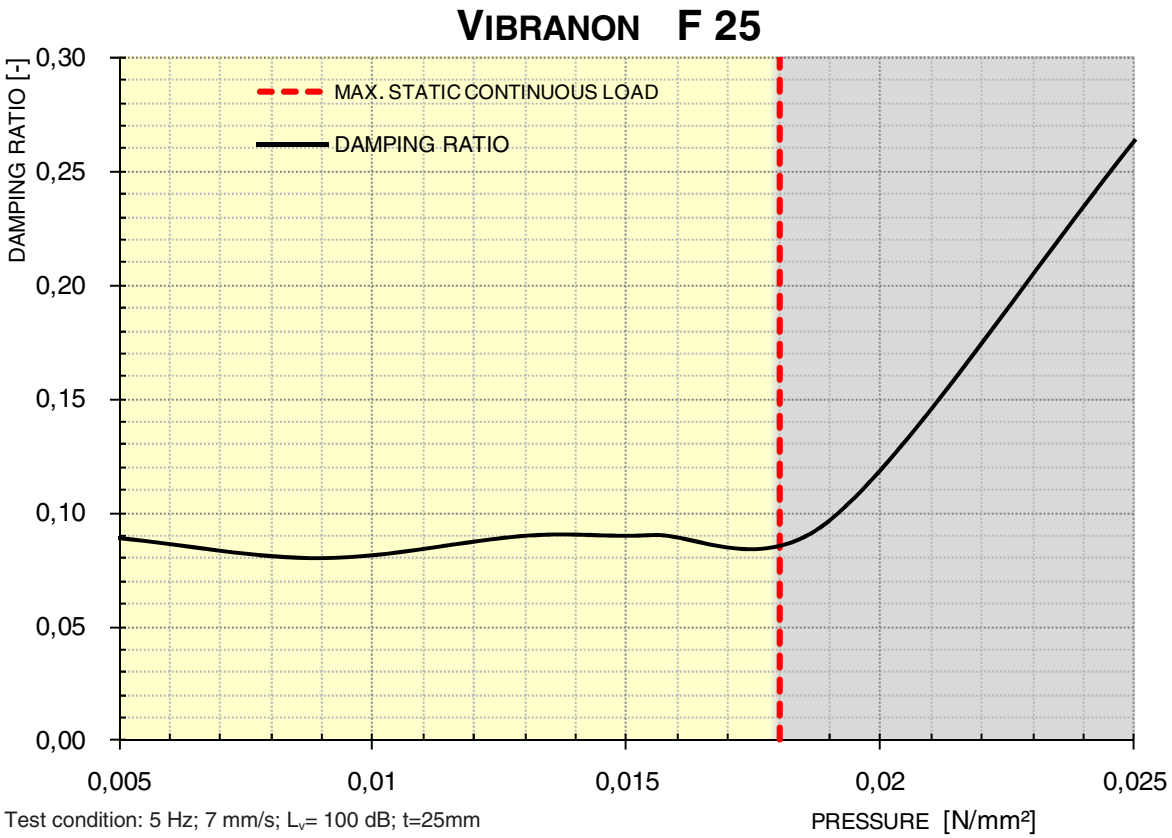
DATA FOR BEDDING MODULE AND DAMPING

3. BEDDING MODULE



Test condition: 5 Hz; 7 mm/s; L_v= 100 dB; t=25mm

4. DAMPING



Test condition: 5 Hz; 7 mm/s; L_v= 100 dB; t=25mm

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DATA FOR RESONANCE BEHAVIOUR AND INSULATION EFFECT

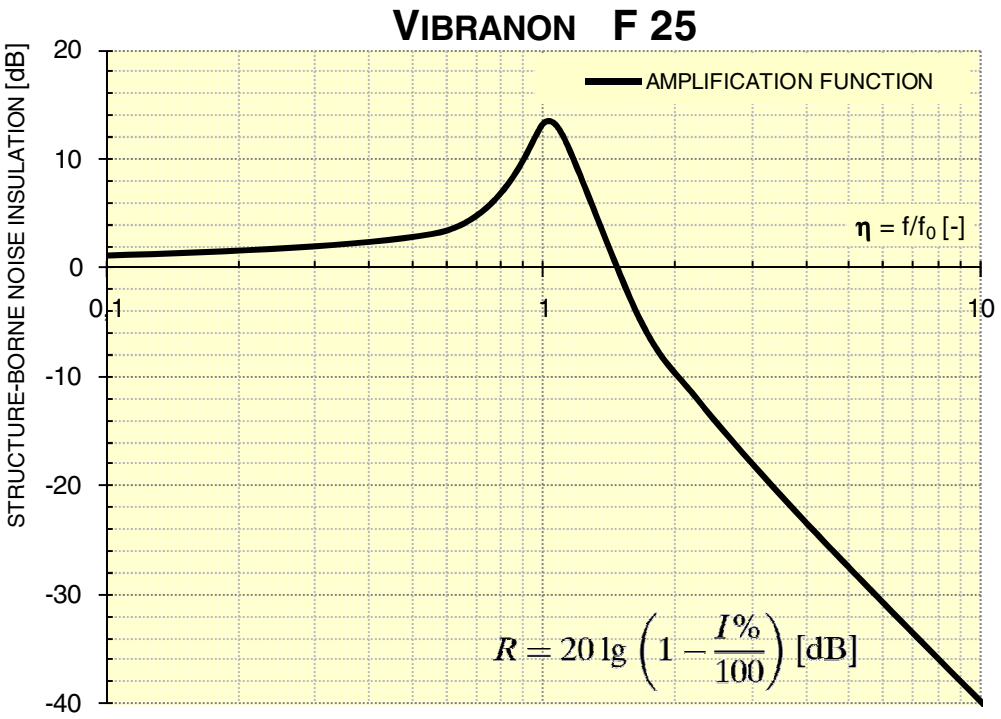
5. STRUCTURE-BORNE NOISE INSULATION:

R is the level of the amplification function (the structure-borne noise insulation) in [dB] Where *R*>0 the vibration amplitude increases; where *R*<0 the vibration amplitude decreases. The limit value between amplitude reinforcement and amplitude reduction is

$$\eta = \sqrt{2}$$

At resonance η =1 the level assumes the following value:

$$R = 20 \log \frac{1}{2D} [dB]$$

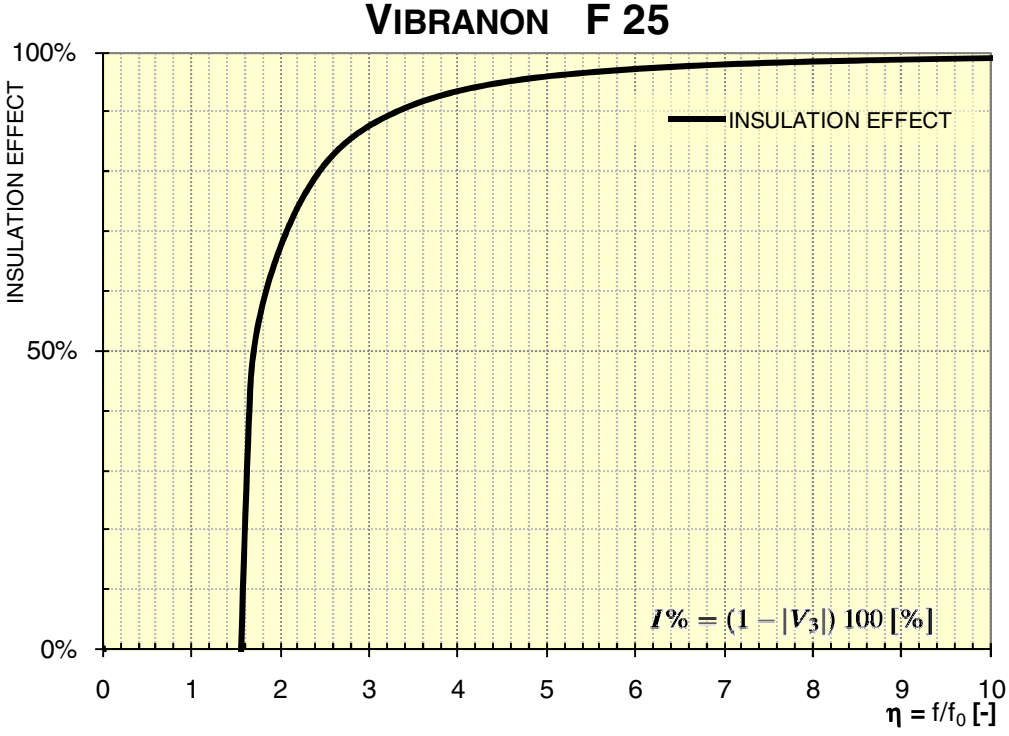


6. INSULATION EFFECT:

The amplification function V3 applies to constant and square excitation for both active and passive vibration insulation. The quality of an elastic bearing is expressed by the insulation efficiency, which is defined as:

$$I\% = \frac{\hat{s}_0 - \hat{s}_F}{\hat{s}_0} \cdot 100$$

The difference between the amplitude introduced at the foot and that at the foundation is placed in relation to the amplitude introduced.



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