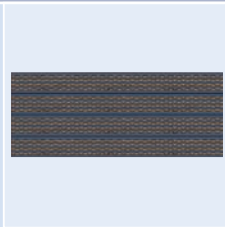
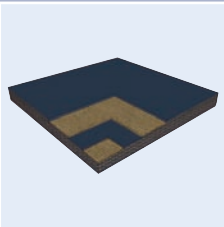
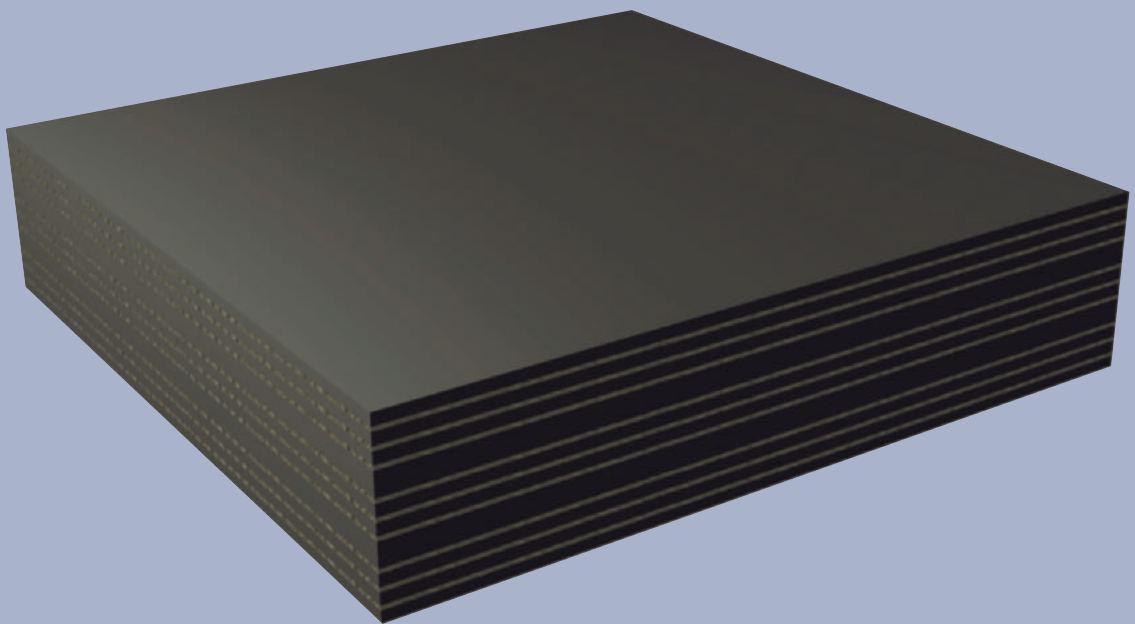


# CIDITAN<sup>®</sup>



*High-strength insulation board for  
impact insulation and vibration isolation*

# CIDITAN® Mode of Action

## General

Machines using impact and hammer action transmit large forces to the supporting structure, thereby causing considerable vibration in the vicinity. In order to reduce this type of vibration Calenberg Ingenieure developed the CIDITAN®-Impact-Insulation-Board. It consists of compressible textile damping layers and incompressible elastic layers.

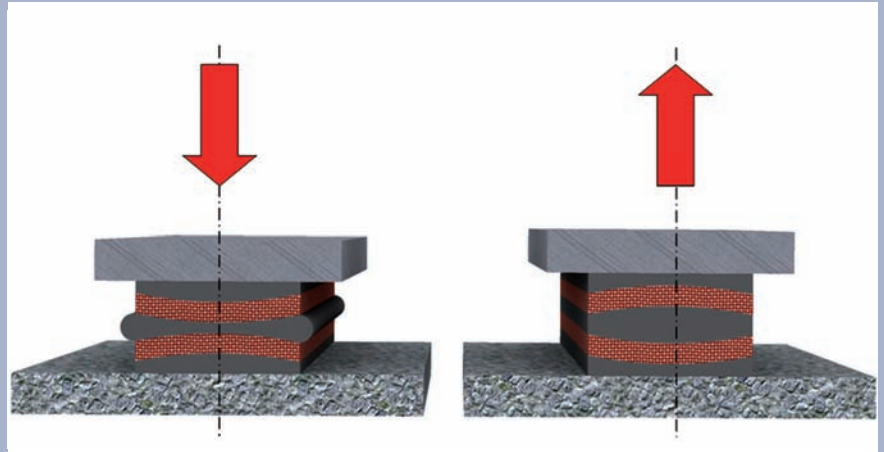
## Function

Any elastically supported system vibrates when being subjected to impact loading. The vibration decays as a function of time. The duration of the attenuation process is determined by the damping effect of the elastic support system. A high degree of damping results in a quick attenuation of the excited system.

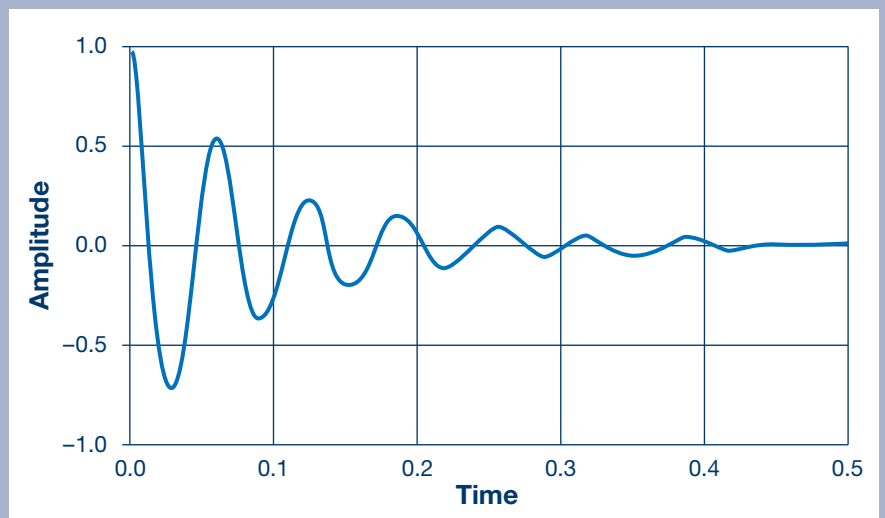
The particular composition of compressible and incompressible layers of the CIDITAN®-Impact-Insulation-Board leads in combination with the high damping properties of the material to energy attenuating flexural vibration. The attenuation process is shown in the diagram to the right.

## Design

Please contact Calenberg Ingenieure for an exact bearing design allowing for all relevant parameters.



*Damping layers in flexural vibration between incompressible elastic layers*



*Example of a CIDITAN® attenuation curve*

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