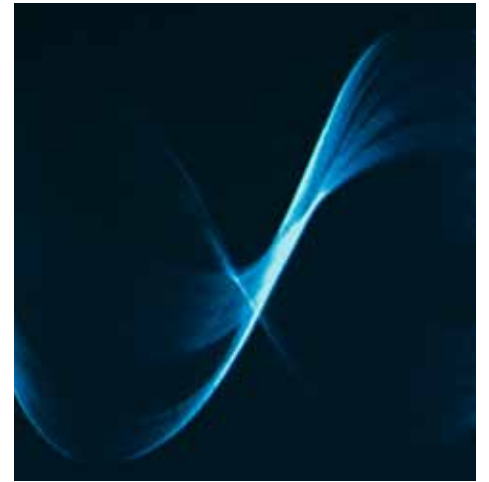


**K** KRAIBURG  
RELASTEC



# VIBRATION INSULATION

Made from Recycled Rubber

The "New Wave" in Vibration Insulation

**DAMTEC**<sup>®</sup> vibra

KRAIBURG RELASTEC and SPEBA-Baelemente GmbH are specialists with several decades of experience in the field of structural insulation. We are experts in ready-to-install, recycled rubber products which provide effective "Sound-deadening" solutions of building components.

Irritating noises coming from loud stairways, banging washing machines, annoying loudspeakers and vibrating machines next door have probably bothered everyone on occasions, robbing us of much-needed rest and relaxation. The answer to these disturbances: the "New Wave" in noise and vibration absorption, a completely new line of products and technology offered by KRAIBURG RELASTEC and SPEBA-Baelemente to reduce or eliminate bothersome noise transmission.

Acting like shock absorbers in automotive vehicles, these rubber insulation materials provide soft and resilient support of structural components of all types. The new wave of underlays provides ideal vibration absorption in all kinds of applications ranging from the smallest of staircases to heavy-duty machine foundations and insulation of entire buildings.

## Optimum vibration control ...

- highly effective
- application-adaptable
- very durable
- extremely cost-efficient

The materials are available in various densities, hardnesses, thicknesses and geometric shapes, allowing selection in accordance with the weights and types of the objects insulated. Choice of the correct product must focus on the core of the problem, i.e. the actual vibration mechanics of the application. A car, for instance, needs softer shock absorbers than a lorry does. To provide effective absorption, the solution must be tailored exactly to the situation at hand.

With its wide-ranging selection the new DAMTEC vibra product line provides the optimum "shock absorbers" for nearly every application. The engineers of KRAIBURG RELASTEC and SPEBA-Baelemente provide expert assistance with material and dimension selections in accordance with your needs. Taking into account the excitation frequencies and weights of the objects supported, they can propose a system with outstanding insulation performance. Proper design of the insulation and its natural vibration frequency in relation to the source frequency makes a difference that you can hear and feel.

The result: the peace and quiet that you rightfully deserve!



# **DAMTEC<sup>®</sup>** vibra Product Line

## **DAMTEC<sup>®</sup> vibra soft**

... is a lightweight and soft insulation material made from fine-grained recycled cellular rubber. Its upper and lower sides are smooth. DAMTEC vibra soft is used in applications supporting light weights, i.e. compressive stresses ranging from 0.05 N/mm<sup>2</sup> to 0.10 N/mm<sup>2</sup>.

## **DAMTEC<sup>®</sup> vibra medium**

... is a soft insulation material made from fine-grained recycled cellular rubber. Its upper and lower sides are smooth. DAMTEC vibra medium is used in applications supporting moderate weights, i.e. compressive stresses ranging from 0.10 N/mm<sup>2</sup> to 0.20 N/mm<sup>2</sup>.

## **DAMTEC<sup>®</sup> vibra hard**

... is a semi-hard insulation material made from a blend of fine-grained recycled cellular rubber and high-quality recycled rubber. Its upper and lower sides are smooth. DAMTEC vibra hard is used in applications supporting heavy weights, i.e. compressive stresses ranging from 0.20 N/mm<sup>2</sup> to 0.30 N/mm<sup>2</sup>.

## **DAMTEC<sup>®</sup> vibra ultra**

... is a hard insulation material made from high-quality recycled rubber. Its upper and lower sides are smooth. DAMTEC vibra ultra is used in applications supporting very heavy weights, i.e. compressive stresses greater than 0.30 N/mm<sup>2</sup>.

Additional information and data sheets are available upon request.

We would gladly assist you with selecting the correct product for your requirements which might include:

- weights supported
- available structural surfaces and heights
- vibration dynamics and specifications

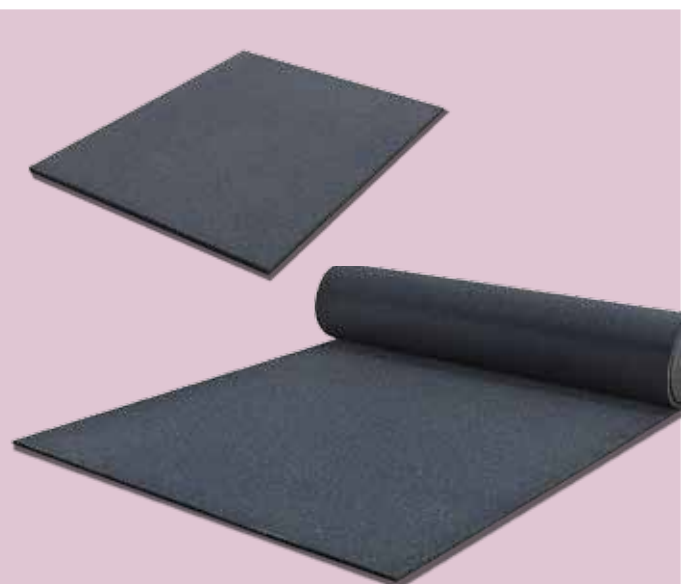
## **DAMTEC<sup>®</sup> vibra 3D**

... is an insulation material made from high-quality recycled rubber offered in several texturing and thickness options. Its upper side is smooth with light granular texturing; its lower side is available with different dimple patterns. DAMTEC vibra 3D is used in extremely sensitive applications, i.e. under compressive stresses ranging from 0.005 N/mm<sup>2</sup> to 0.050 N/mm<sup>2</sup>.



Additional information and data sheets are available upon request.

Evaluated by Technische Universität Dresden/Germany, see test reports 24/06, 12/09, 13/09, 14/09, 15/09





**1 DAMTEC® vibra 3D**

Single layer:  $f_0 \geq 18 \text{ Hz}^*$   
Average compressive stress  $\leq 0.05 \text{ N/mm}^2$



**DAMTEC® vibra 3D**

Two layers:  $f_0 \geq 14 \text{ Hz}^*$   
Average compressive stress  $\leq 0.05 \text{ N/mm}^2$



**DAMTEC® vibra 3D**

Three layers:  $f_0 \geq 10 \text{ Hz}^*$   
Average compressive stress  $\leq 0.05 \text{ N/mm}^2$

\*The natural frequency  $f_0$  is dependent on the product thickness and the weight supported.

**A DAMTEC® FOR ACOUSTIC INSULATION UNDER FLOORS OF ALL TYPES**

For further information please contact us at:  
email: [damtec@kraiburg-relastec.com](mailto:damtec@kraiburg-relastec.com) · Telephone: +49/8683-701-124

**2** **DAMTEC<sup>®</sup> vibra soft**

$f_0 \geq 12,5$  Hz  
Average compressive stress  $\leq 0.1$  N/mm<sup>2</sup>



**3** **DAMTEC<sup>®</sup> vibra medium**

$f_0 \geq 12,5$  Hz  
Average compressive stress  $\leq 0.2$  N/mm<sup>2</sup>



**4** **DAMTEC<sup>®</sup> vibra hard**

$f_0 \geq 10,5$  Hz  
Average compressive stress  $\leq 0.3$  N/mm<sup>2</sup>



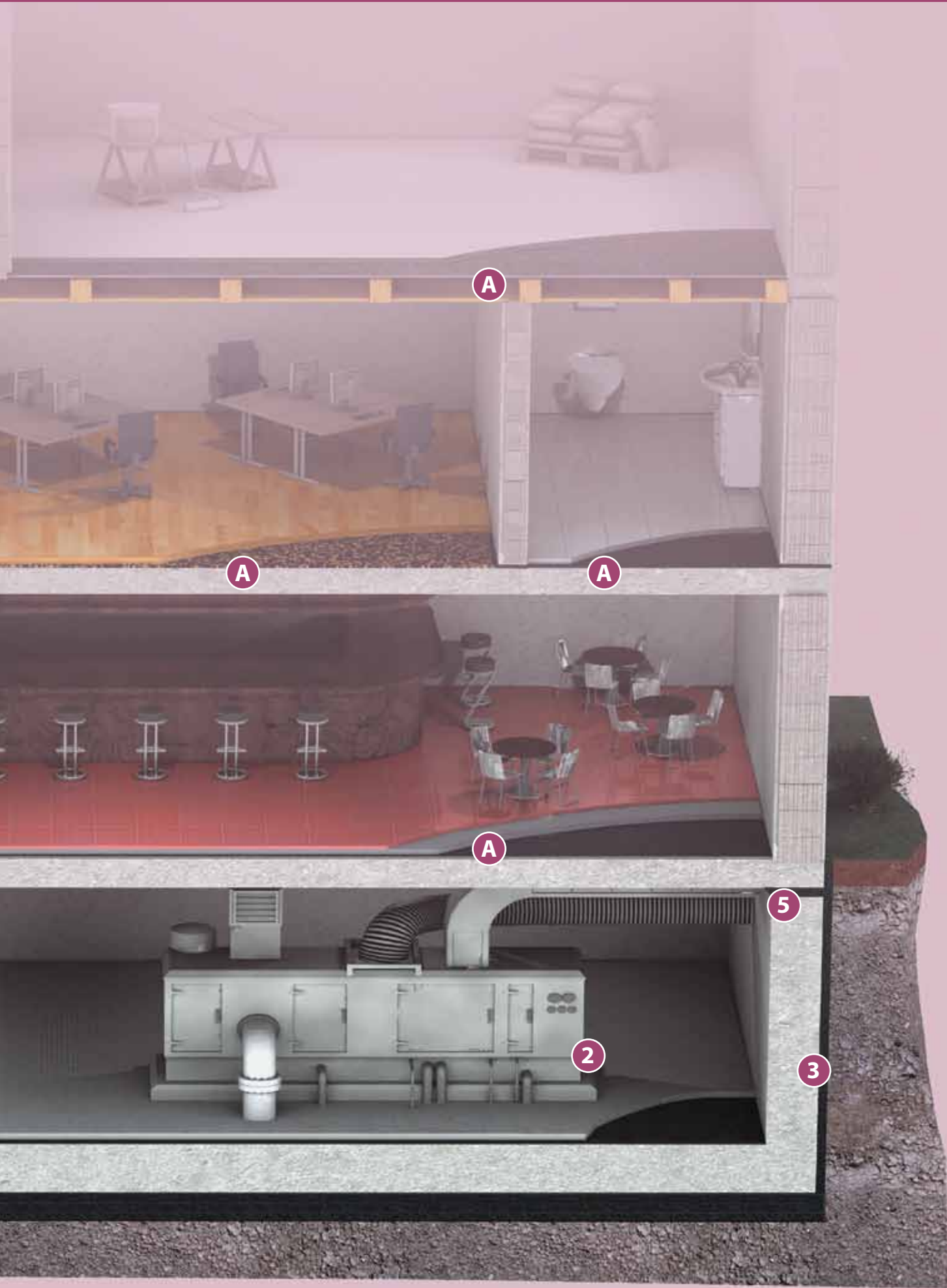
**5** **DAMTEC<sup>®</sup> vibra ultra**

$f_0 \geq 10,5$  Hz  
Average compressive stress  $\geq 0.3$  N/mm<sup>2</sup>



Standard material thicknesses: 5/10/12.5/15/20 mm  
The natural frequency  $f_0$  is dependent on the product thickness and the weight supported.  
Combined systems (e.g. single, two or even three layers) are possible.





***DAMTEC***<sup>®</sup> **vibra**

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 **Made in  
Germany**



No responsibility can be taken for the correctness of this information.

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