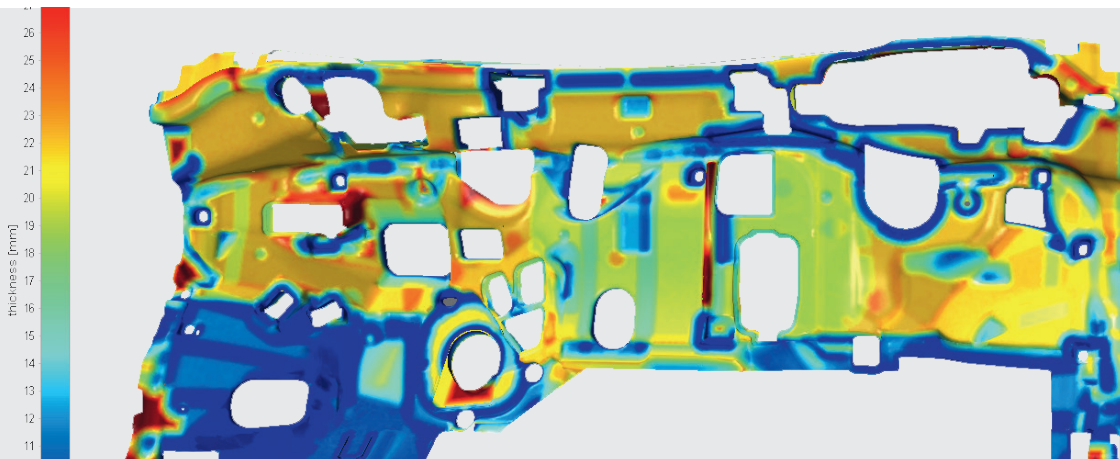


VisualSISAB – Transmission Loss and Absorption Directly from CAD Data



VisualSISAB calculates the absorption and insulation of sound package components with complex geometries and a wide range of different materials. It exploits the transfer matrix technique to represent the wave propagation through layers of porous materials, hard layers, foils or spacers.

VisualSISAB enables material compositions and thicknesses of press-molded components already to be reviewed with respect to NVH requirements and adjusted if necessary during the CAD stage by means of computer-controlled simulations. This is a prerequisite for the development and manufacture of effective, lightweight and cost-optimized noise protection components. VisualSISAB is used for components in the vehicle interior, engine bay as well as body-in-white.

VisualSISAB features specific visual and analysis tools that allow fast design modifications on parts. It is possible to:

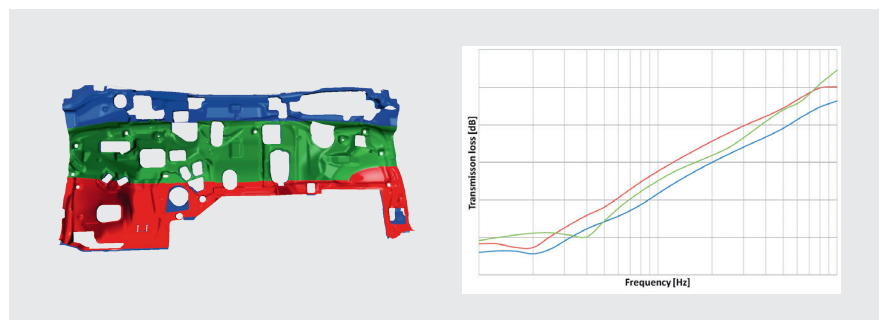
- compare performance result with target curves
- efficiently analyze design changes
- issue contribution charts to identify part leakages

Thanks to a new feature, the enhanced software enables virtual prototype development, whereby local material thicknesses are automatically adjusted to the available packaging space. With this, it is possible to suggest the optimal combination for meeting predefined acoustic and weight requirements with given press-molded or back-foamed technology.

A highly efficient graphical user interface allows for fast multi-layer 3D constructions from CAD data.

Example:

With VisualSISAB, it is possible to obtain a performance breakdown according to thickness ranges or geometrical area split

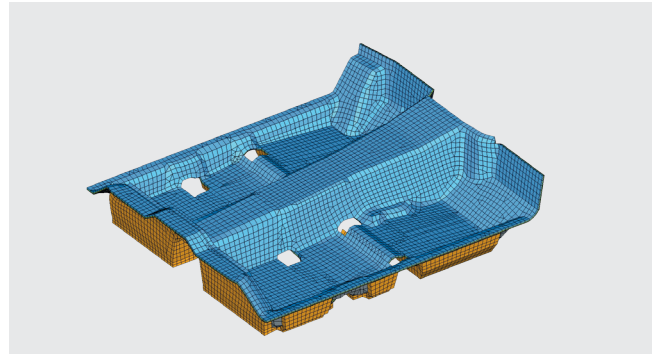


Autoneum. Mastering sound and heat.

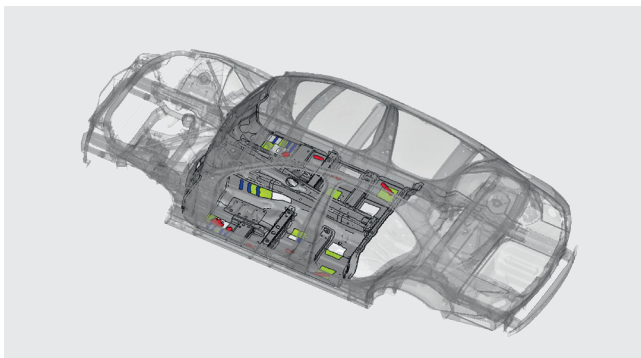
Autoneum's full range of Simulation Tools

Autoneum has designed a full range of Simulation Tools based on our long-standing expertise in vehicle acoustics and thermal management. Our tools predict and optimize NVH in the concept phase to provide our customers with cost-effective solutions and reduced lead times. We are able to thoroughly evaluate all required input data for this process thanks to our broad range of measurement systems.

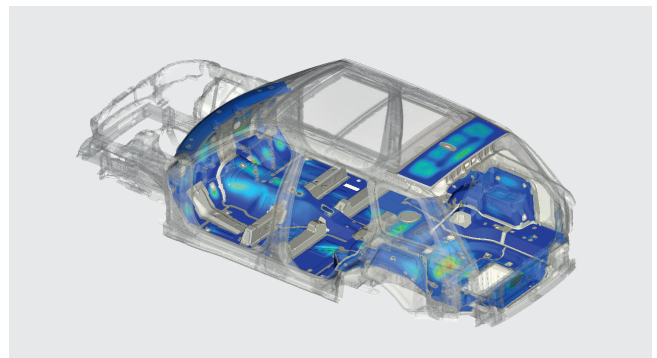
From simulation to validation, Autoneum offers the right solution.



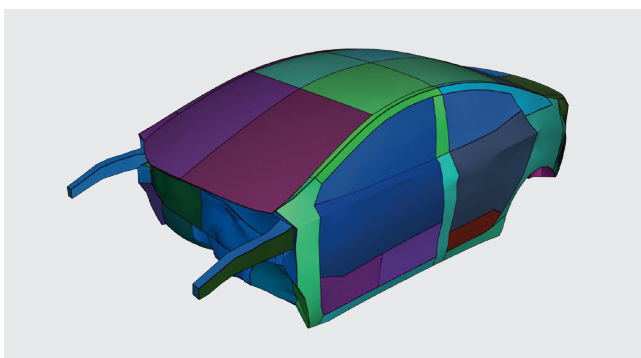
TREASURI2 is the Autoneum Finite Elements (FE) solution for trim simulation in a complete vehicle model.



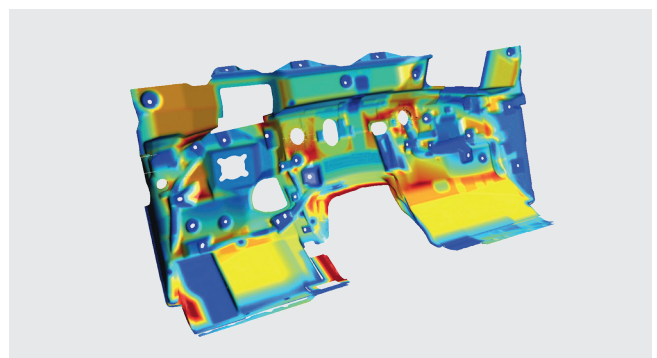
GOLD optimizes simultaneously the damping package and vehicle body panel shape, for weight reduction and full body mid-frequency vibration.



SILVER is the simulation tool that identifies the ideal location of dampers thanks to a single vibration FE simulation using NASTRAN.



REVAMP is the SEA tool for the design of airborne noise sound package in a complete vehicle model.



VisualSISAB calculates transmission loss and absorption performance for sound package parts directly from CAD data.

For further information, please contact: Autoneum Management AG | Théophile Courtois, Senior Manager Products and Systems Simulation |
P +41 52 244 82 61, theophile.courtois@autoneum.com www.autoneum.com

