
Audioflex
The efficient sound insulation
greiner
PURTEC

Greiner PURTEC

Greiner PURTEC sets and raises the standards of insulation for warm water tanks. We focus on the requirements of the customers. We still set great store by emphasizing Research and Development activities, testing and patenting new products with better insulation properties. In an era of high energy costs and worldwide issues such as global warming, insulation is becoming more and more important. In order to contribute, we always focus on our customer's needs and new innovative technologies.

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Audioflex

The Audioflex portfolio specializes on noise reduction. Our line of 6 products deals with sound absorption and sound insulation.

Sound insulation of the components is referred as the prevention of sound transmission from one room to the other. In the case of sound absorption, the sound is not thrown back, but is transmitted. The sound energy is converted into heat and the sound wave is thus deprived of its power.

In our customized solutions, both low and high frequency ranges can be covered. Flexible shapes, material combination and self-adhesive preparation is possible.

Why Audioflex

1. Amazing properties.

   Great acoustic values of the used materials.

2. Individual solutions.

   Every product is aligned to a specific need.

3. We love our planet, so we set an example.

   No harmful substances.

4. Top quality.

   Stable in endurance and insulation.

5. Technology of today, solution for tomorrow.

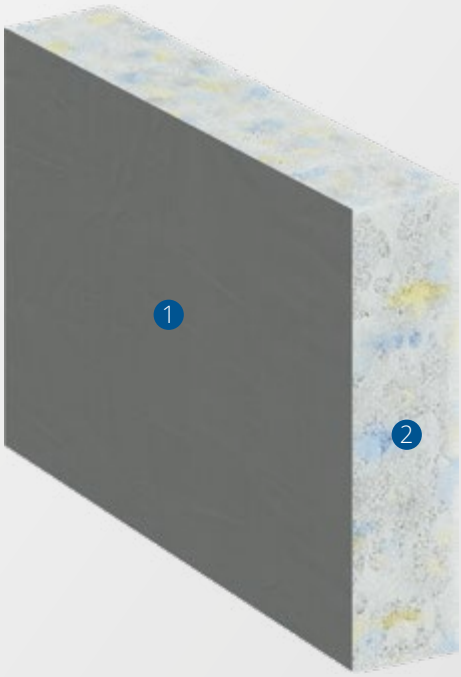
   We constantly innovate to meet the standards of the future.

Composite foam

The material is made from the waste cuttings of newly produced foam and complies with the strictest emission standards. It can be produced in a very high density and therefore it is a great sound insulation material.

Additional lamination

Lamination can increase the endurance of the material, its resistance to temperature and mechanical influences. Common materials are self-adhesive foils, nonwoven layers, PP foils, etc.



1. Lamination
2. PU soft foam

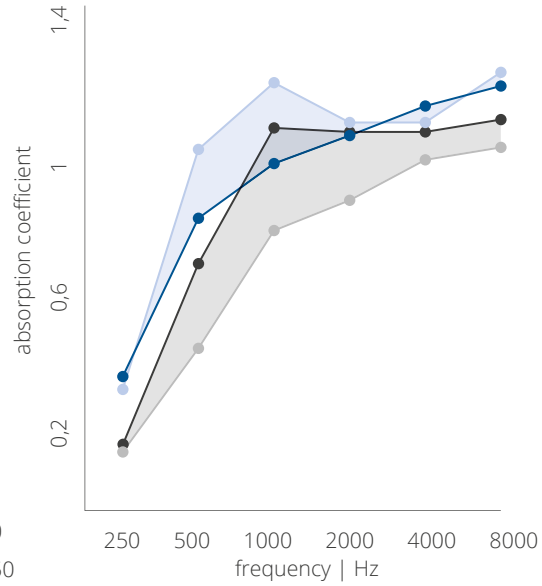
Noise insulation properties

Technical data

thickness	different thicknesses
density	different densities

GRAPH: Thermal conductivity

From many possible properties variations (table above) the graph shows absorption range for 2 thicknesses.



thickness 40 / density 80
thickness 40 / density 250
thickness 20 / density 80
thickness 20 / density 250

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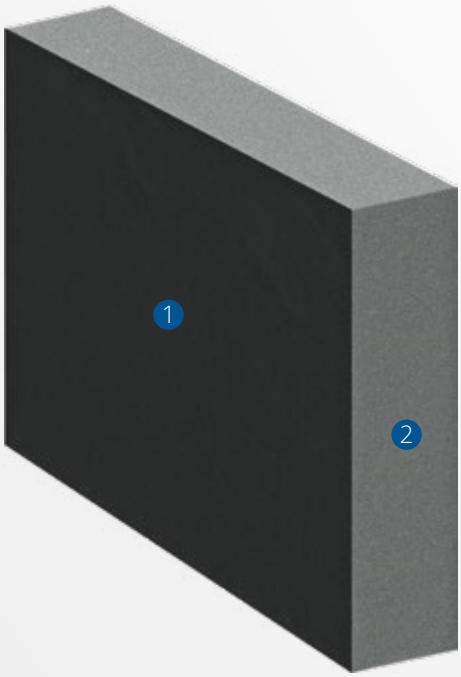
PU soft foam

This flexible foam can be used for various applications for sound insulation as well as sound absorption. The material is used for this purpose in many industries, like automotive, construction, and climate control.

Additional lamination

Lamination can increase the endurance of the material, its resistance to temperature and mechanical influences. Common materials are self-adhesive foils, nonwoven layers, PP foils, etc.



1. Lamination
2. PU soft foam

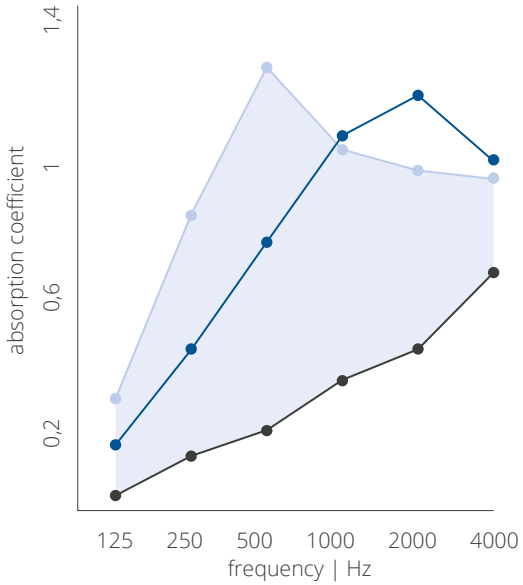
Noise insulation properties

Technical data

thickness	different thicknesses
density	different densities

GRAPH: Noise absorption comparison

From many different densities, the graph shows absorption range of 3 thicknesses with the density of 30 kg/m³.



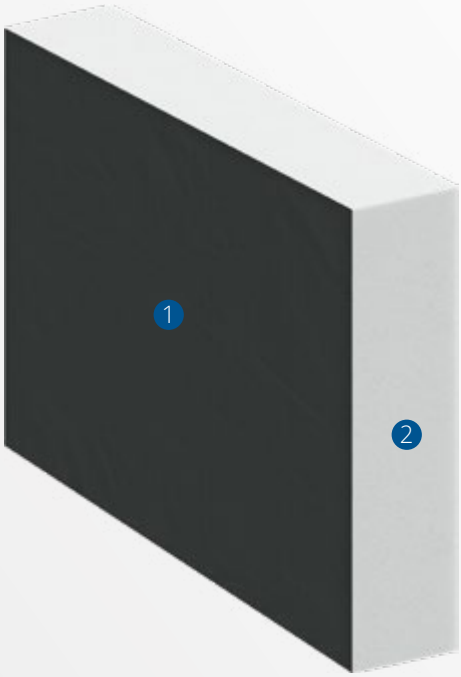
- thickness 50 mm / density 30 kg/m³
- thickness 30 mm / density 30 kg/m³
- thickness 10 mm / density 30 kg/m³

Melamine resin foam

A semi-soft foam material with high absorption capacity. Beside its good acoustic properties the material has also good characteristics in terms of fire resistance. Thanks to its low weight in combination with a good stability it can be used as absorbent element of noises.

Additional lamination

Lamination can increase the endurance of the material, its resistance to temperature and mechanical influences. Common materials are self-adhesive foils, nonwoven layers, PP foils, etc.



1 Lamination

2 Melamine resin foam

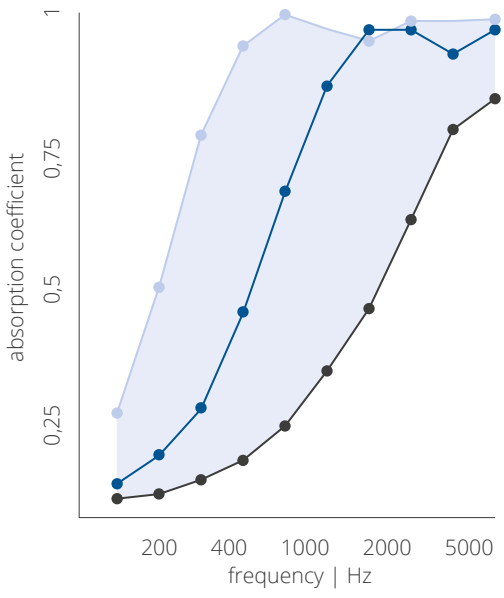
Noise insulation properties

Technical data

thickness	different thicknesses
density	10 kg/m³
hygiene certified	VDI 6022
fire class	B1

GRAPH: Noise absorption comparison

The absorption value is based on the material thickness.



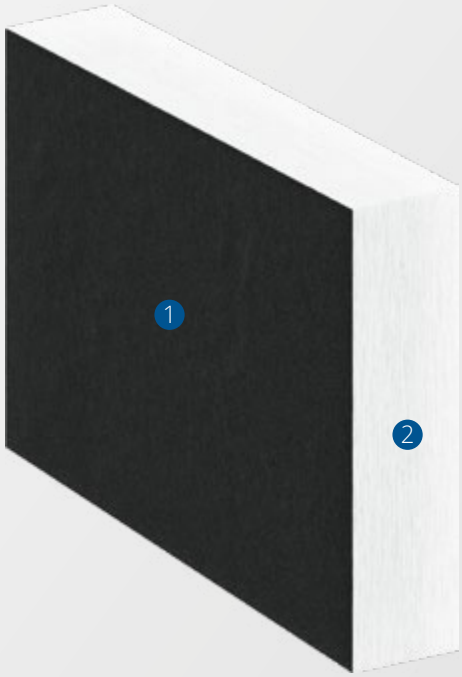
thickness 100 mm
thickness 50 mm
thickness 20 mm

Polyester nonwoven

The material can be adapted to you specific needs in terms of density and compression strength and therefore its acoustic properties. It can be used for sound absorption as well as sound insulation. Furthermore it is characterized by a good fire resistance.

Additional lamination

Lamination can increase the endurance of the material, its resistance to temperature and mechanical influences. Common materials are self-adhesive foils, nonwoven layers, PP foils, etc.



1. Lamination
2. Polyester nonwoven

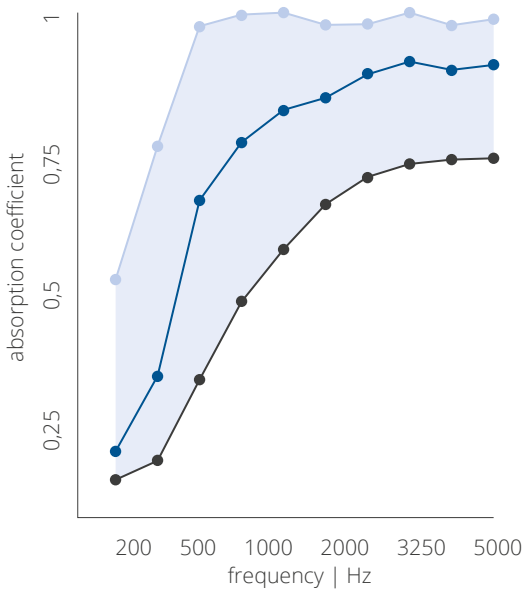
Noise insulation properties

Technical data

thickness	different thicknesses
density	different densities
fire class	B1

GRAPH: Noise absorption comparison

The graph shows absorption range of 3 thicknesses with the density of 20 kg/m³.



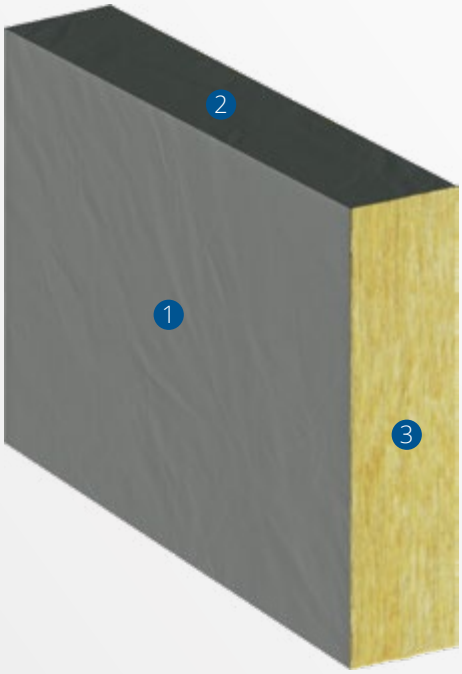
- thickness 100 mm / 20 kg/m³
- thickness 50 mm / 20 kg/m³
- thickness 20 mm / 20 kg/m³

Mineral wool

Non-combustible acoustic and thermal insulation made of inorganic mineral wool. The material consists of glass fibres and is characterized by a light weight, flexibility, and resilience. Long fibres are used for low dust formation.

Additional lamination

Lamination can increase the endurance of the material, its resistance to temperature and mechanical influences. Common materials are self-adhesive foils, nonwoven layers, PP foils, etc.



1. Lamination 1
2. Lamination 2
3. Mineral wool

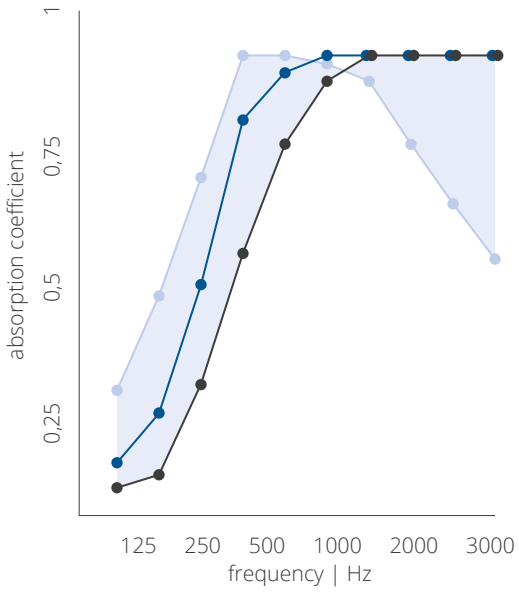
Noise insulation properties

Technical data

thickness	different thicknesses
density	different densities
fire class	A1

GRAPH: Noise absorption comparison

The graph shows absorption range of 3 thicknesses with the density of 20 kg/m³.



- thickness 100 mm / 20 kg/m³
- thickness 50 mm / 20 kg/m³
- thickness 20 mm / 20 kg/m³

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Notes

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