

.insulation

siro ACOUSTIC INSULATION

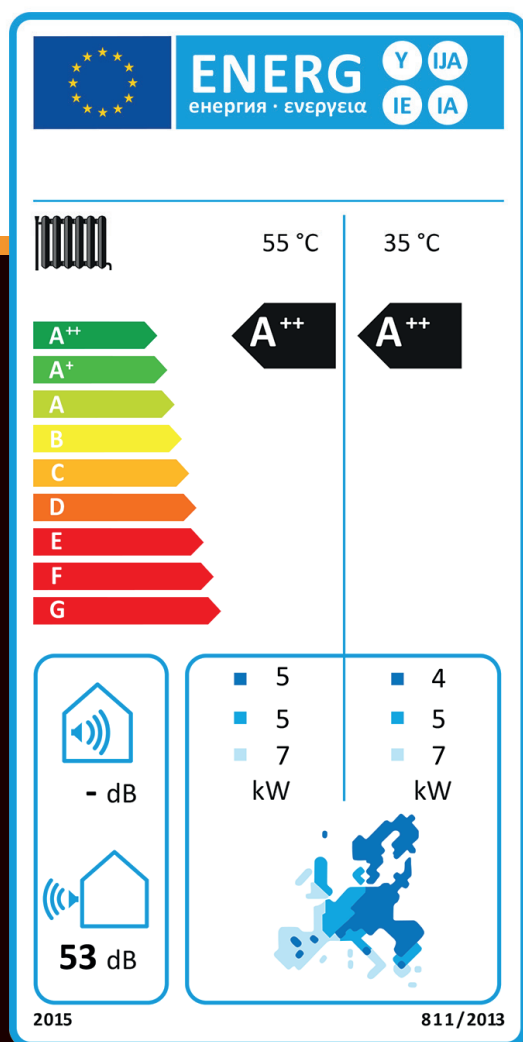
**ACOUSTIC
INSULATION
FOR WHISPER-
QUIET HEATING AND
COOLING SYSTEMS**

NEVEON

The Future of Foam

ENJOY PEACE AND QUIET WITH SMART SOUNDPROOFING

Heat pumps, boilers, combined heat and power units, ventilation systems, or air conditioners – they all ensure a comfortable indoor climate. But like many technical devices, they also generate disruptive operating noise. Acoustic insulation systems provide the solution: they are the invisible heroes that make heating, cooling, and ventilation units whisper-quiet. They help meet legal noise protection requirements and increase acceptance of the devices – a benefit for both owners and their neighbors.



BENEFITS OF ACOUSTIC INSULATION:

- **Powerful and quiet:** Noise reduction without compromising device performance.
- **Durable and protective:** Robust materials protect devices and extend their service life.
- **Maximum flexibility:** Combination of various materials for customized products.

EVERYTHING FROM A SINGLE SOURCE: **FOR GREATER EFFICIENCY AND LESS EFFORT**



As a specialist in innovative foams, NEVEON develops and produces customized thermal and acoustic insulation solutions that meet the highest quality standards. At the same time, we always keep our customers' workflows in mind. Through close partnerships, we ensure that our insulation solutions are flexibly adapted to the specific requirements of heating and cooling systems. Additionally, we emphasize easy installation to enable fast and seamless assembly processes.

SIRO CASING INSULATION

Our **siro** casing insulation insulates the frame or housing of heating and cooling systems. It prevents sound from passing through the housing panels and reduces noise caused by vibrations and internal sound sources. Customized adaptations for different device types allow for noise reduction of up to 16 dB(A).



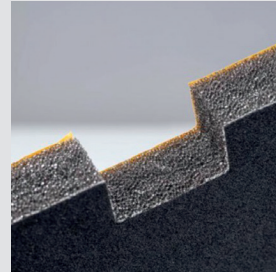
BENEFITS OF **siro** CASING INSULATION:

- **Quick and easy installation** on the device's surface.
- **Versatile application** for devices where the primary noise travels from the inside out.
- **Thermal and acoustic insulation** – a solution for two challenges.
- **Available in self-adhesive versions** and various laminations or material combinations.

VARIANTS OF SIRO CASING INSULATION

siro.F polyurethane foam

This elastic polyurethane soft foam provides an ideal balance between acoustic and thermal insulation, featuring a high-quality look and feel. Its foam structure absorbs sound waves, lowers noise levels, and reduces heat loss due to its low thermal conductivity, improving energy efficiency.



APPLICATION EXAMPLES:

- Soundproofing for heat pumps, for example, with a thickness of 20 or 30 mm.
- Compressed sealing foam (air or gas) in boilers.

siro.RF composite foam

Made from recycled foam cuttings, this composite foam is characterized by its high density and open-cell structure. It provides excellent sound absorption, is temperature-resistant, durable, and permanently elastic.



APPLICATION EXAMPLES:

- Soundproofing for air conditioning units, for example, with a thickness of 10 mm.
- Soundproofing for biomass boilers, for example, with a thickness of 20 mm.

siro.M melamine foam

This lightweight, open-cell foam is flexible and highly resistant to compression. It features outstanding acoustic and thermal properties as well as high temperature and fire resistance.

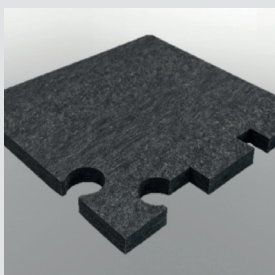


APPLICATION EXAMPLES:

- Soundproofing for ventilation ducts, for example, with a thickness of 20 mm.
- Soundproofing for a boiler exhaust system, for example, as a molded part.

siro.PES polyester fiber fleece

This OEKO-TEX® and REACH-compliant material is made from 100% thermally and mechanically bonded polyester fibers—completely free of chemical binders. It delivers excellent thermal and acoustic properties.



APPLICATION EXAMPLE:

- Soundproofing for heat pumps, for example, with a thickness of 25 mm.

siro.RPES composite fleece

This compact polyester fleece consists of 100% recycled fibers and offers outstanding acoustic and airtight properties. It is available in a self-adhesive version and can be optionally laminated.



APPLICATION EXAMPLE:

- Soundproofing for a heat pump, for example, with a thickness of 15 mm in combination with siro.RF.

SIRO COMPONENT INSULATION

Our **siro** component insulation solutions provide targeted insulation for parts such as compressors, fans, pipes, and ventilation ducts, reducing noise directly at the source. They consist of either monomaterials or highly efficient combinations, such as sound-absorbing polyester fleece (siro.PES) paired with a soundproofing film (siro.HF). Customized adaptations to different compressor types allow for noise reduction of up to 6 dB.



BENEFITS OF **siro** COMPONENT INSULATION:

- **Targeted and precise** noise reduction directly at the source.
- **High effectiveness**
- **Minimizes both noise** and vibrations.

VARIANTS OF SIRO COMPONENT INSULATION

APPLICATION EXAMPLES

COMBINATION OF **siro.PES** & **siro.HF-EVA**

- Soundproofing for a heat pump compressor, for example, with a thickness of 20 mm.
- Soundproofing for an air conditioning compressor, for example, with a thickness of 10 mm.

siro.E synthetic rubber

Elastomer insulation with a closed-cell structure, high water vapor diffusion resistance, and excellent insulating properties – especially at low temperatures – making it ideal for pipe insulation.

Technical specification	
Thickness	3–25 mm
Dimensions	max. 1000 x 2000 mm
Density	~ 50 kg/m ³
Thermal conductivity at +20°C	≤ 0.035 W/mK
Thermal conductivity at -20°C	≤ 0.031 W/mK
Water vapor diffusion resistance	μ ≥ 10000
Fire behavior (DIN 4102)	B1
Temperature resistance	-200 to +105°C

APPLICATION EXAMPLES:

- Acoustic and thermal insulation of a heat pump heat exchanger, for example, with a thickness of 10 mm.
- Acoustic and thermal insulation of pipelines, for example, with a thickness of 20 mm.

siro.HF-EVA heavy film

This mass-loaded sheet effectively reduces airborne noise, creating a noticeably quieter environment. It is optionally available with a self-adhesive backing and can be ideally combined with other insulation materials.

Technical specification	
Thickness	1, 2, 3, 4, 5 mm
Dimensions	max. 1000 x 1500 mm
Density	~ 2 kg/m ² /mm
Temperature resistance	-30 to +80°C
Tensile strength	1–3 mm: > 1.0 N/mm ² 4–5 mm: > 0.7 N/mm ²
Elongation	20%
Hardness (Shore A)	~ 80

siro.PES polyester fiber fleece

This REACH-compliant material is made from 100% thermally and mechanically bonded polyester fibers – entirely free of chemical binders. It offers outstanding thermal and acoustic properties.

Technical specification	
Thickness	10–15 mm
Dimensions	max. 2500 x 1300 mm
Density	15, 30, 50 kg/m ³
Fire class (EN 13501-1)	B
Temperature resistance	> 150°C
Thermal conductivity	~ 0.038 W/mK



We are **NEVEON** and foam is our world.

As a strong partner of both trade and industry we offer foam solutions for a huge range of applications, from the comfort segment through the transportation sector to a limitless variety of specialty applications. However, irrespective of how dissimilar our products and their areas of employment are, they constantly have one common goal. They offer added value and make life more comfortable, safer and sustainable.

Or, in other words, simply better!



CONTACT

We would be happy to send you further product information.

Just get in touch!

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