



# Product Catalogue

# 2026

 <https://rebondex.pl/>

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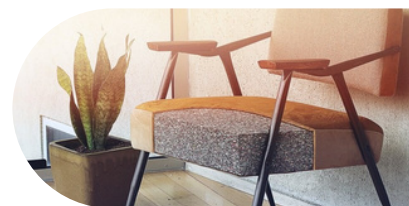
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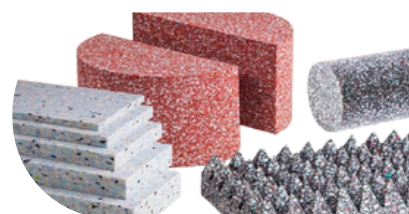
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# About Us

We are a manufacturer of rebonded polyurethane foam (Rebond) with a wide density range from 50 to 250 kg/m<sup>3</sup>. Our material is produced through the process of bonding PUR (polyurethane) granules, resulting in a product with technical specifications that far exceed those of standard foams.

We provide solutions for a variety of industries. Our foams offer effective acoustic insulation for residential and industrial buildings, durable expansion cushions, cores for upholstered furniture, reliable transport protection, and much more. All our products hold valid hygiene certificates.

Their technical and acoustic parameters have been confirmed by tests conducted by the Building Research Institute (ITB).

# CONSTRUCTION AND FINISHES



## Next-Generation Acoustic and Thermal Insulation

Rebondex rebonded foam panels are an advanced construction material with a density of up to  $250 \text{ kg/m}^3$ . They provide an effective barrier against noise and heat loss, replacing traditional, less efficient solutions. Perfect for floor, wall, and ceiling applications.



## Advantages of Rebonded Foam Panels

**Effective Acoustics:** The high material density perfectly dampens impact sounds (footsteps) and airborne noise (conversations, TV).

**Thermal Insulation:** Reduces heat loss in rooms (thermal conductivity coefficient  $\sim 0.041 \text{ W/mK}$ ), acting as a "warm floor" layer.

**Mechanical Durability:** Exceptional compression resistance with no "settling" effect under the weight of floor screeds or furniture.

**Eco-friendly & Safe:** A recycled product, odorless, and certified with the PZH National Institute of Public Health hygiene certificate.



# UNDERLAYS FOR LAMINATE FLOORING AND CARPETS



## Acoustic Underlays (STANDARD)

**Soundproofing:** Reduces floor drumming and impact noise by up to 19 dB.

**Thermal Insulation:** Protects against the chill of concrete floors.

**Thermal Conductivity:** 0.041 W/mK.

**Leveling:** Smooths out minor subfloor imperfections (up to 3 mm).



## The Perfect Choice for Home Relaxation Zones

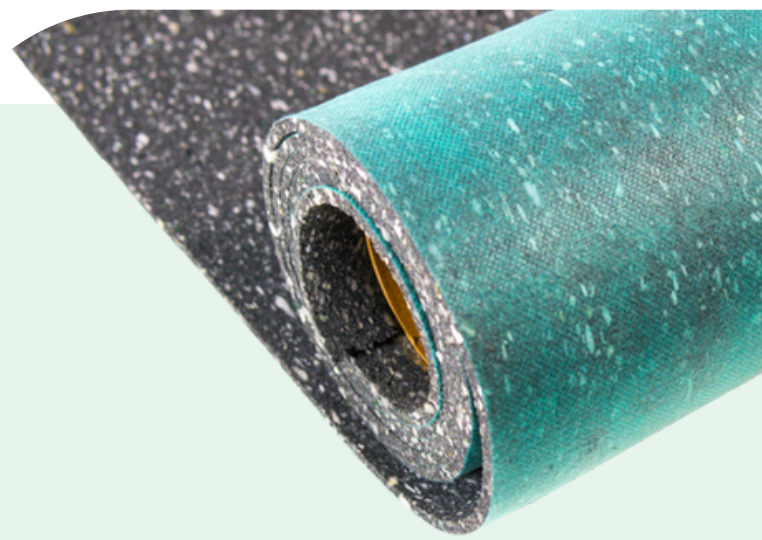
Living rooms, bedrooms, and children's playrooms.

Thanks to excellent thermal insulation, the floor becomes noticeably warmer and more pleasant to the touch—a feature appreciated by everyone who enjoys walking barefoot. It is also a guarantee of peace and quiet. The material effectively dampens the sounds of play and daily life, ensuring acoustic comfort throughout the entire home.

Also ideal for use under carpets.



# HEAVY-DUTY UNDERLAYS FOR LAMINATE FLOORING AND CARPETS



## DUTY+ UNDERLAY (REINFORCED)

Locking System Protection (CS): High compressive strength prevents the floor joints from breaking or cracking.

Stability: The reinforced structure does not settle or deform under the weight of heavy furniture.

2-in-1 Design: An integrated reinforcing layer simplifies installation and significantly extends the floor's lifespan.



## Duty+ Applications

A specialized, high-durability underlay designed for high-traffic areas such as hallways, offices, and kitchens.

Thanks to its reinforcing layer, it creates a rigid and stable base, guaranteeing maximum floor durability and performance for years to come.



# WALL AND CEILING ACOUSTIC INSULATION



## A Noise Barrier for Drywall Systems (Gypsum Board)

In modern construction, the greatest challenge lies in thin partition walls that allow conversations and everyday noise to pass through. Rebondex acoustic panels (with a density of 80–140 kg/m<sup>3</sup>) are a specialized solution that adds essential "mass" to lightweight partitions.

Whether installed behind drywall (gypsum board) or within suspended ceilings, they act as a highly effective sound absorber, drastically reducing the transmission of airborne noise between rooms.



# APPLICATIONS AND BENEFITS



## Partition Walls and Lining Walls

Using Rebond panels as a filler in drywall (gypsum board) systems allows you to achieve sound insulation levels comparable to thick masonry walls, while maintaining a slim build-up. It is the ideal solution for soundproofing bedrooms, offices, and consultation rooms in modern developer-built properties.

## Suspended Ceilings

Installing panels in the plenum space (the gap between the floor and the ceiling) eliminates the "echo chamber" effect. The material absorbs sound waves, reducing reverberation and cutting off noise from neighbors upstairs (when used in combination with floor slab insulation).

## Technical Shafts and Risers

Rebond flexible panels easily adapt to the casing of sewage pipes and ventilation ducts. The high mass of the material prevents vibrations from being transmitted from the installation to the building structure, eliminating annoying humming noises.

As a result, the enclosure no longer acts as an "echo chamber," ensuring peace and quiet in bathrooms and kitchens.



## Technical Data

Density: 120 – 180 kg/m<sup>3</sup> (Acoustic Optimum)

Thickness: 20 – 50 mm (Compatible with C50/C75 profiles)

Installation: Adhesive bonding to the wall or installation within a stud frame

Safety: Non-dusting, odorless, and PZH-certified (National Institute of Public Health).

# MATERIALS FOR UPHOLSTERED FURNITURE



## Structural and Shaping Components

Rigid foam sheets designed for shaping side panels, armrests, and headrests ( $60\text{--}100\text{ kg/m}^3$ ). They serve as a cost-effective alternative to expensive molded foams, ensuring perfect shape retention and exceptional resistance to deformation.

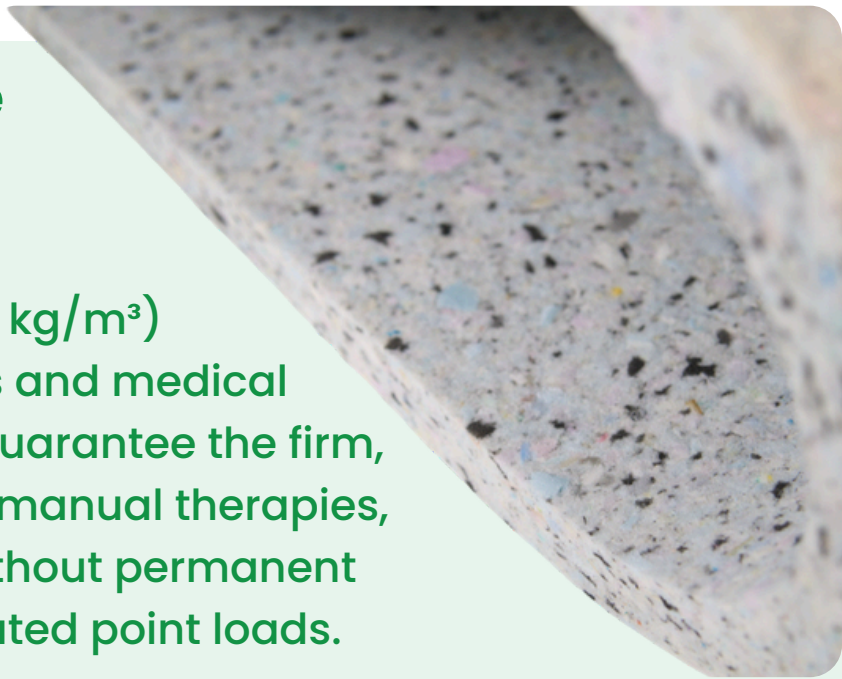
## Mattress Inserts and Seating

Durable mattress cores and underlays for spring insulation ( $50\text{--}90\text{ kg/m}^3$ ). They prevent the "sagging" effect (loss of firmness) in furniture, significantly extending its lifespan compared to standard PUR foams.



## Specialized Furniture and Rehabilitation:

High-density foams (120–140 kg/m<sup>3</sup>) dedicated to massage tables and medical examination couches. They guarantee the firm, stable support necessary for manual therapies, maintaining their integrity without permanent deformation under concentrated point loads.



## Technical Data & Categories:

Shaping Components (Side panels / Backrests):

Density: 60–100 kg/m<sup>3</sup>

Key Feature: High rigidity and ease of upholstery.

Mattress Inserts and Seating:

Density: 50–90 kg/m<sup>3</sup>

Key Feature: A perfect balance between comfort and durability; resistant to cyclic compression.

Specialized Furniture (Massage Tables):

Density: 120–140 kg/m<sup>3</sup>

Key Feature: Exceptionally high hardness, minimal point deflection (Heavy Duty).



# SOLUTIONS FOR SPORTS AND RECREATION



An advanced shock-absorbing material with progressive damping characteristics, manufactured from rebonded foam (Rebond). Unlike standard, lightweight foams, Rebondex offers significantly higher density and a compact structure.

As a result, the material does not suffer from sudden "bottoming out" under dynamic impact, making it a critical component for safety systems in sports facilities.



## Floor Protection (Heavy Duty)

In free weight and CrossFit zones, it acts as a protective shield for the floor. These high-density, heavy-duty mats prevent damage to the concrete subfloor when barbells are dropped, while simultaneously dampening noise and vibrations.



## Safety and Protection

Used as a core for landing mats (crash pads) under climbing walls and as spring covers in trampoline parks. It effectively absorbs impact energy, protecting users' joints and bones from contact with hard surfaces or structural elements.



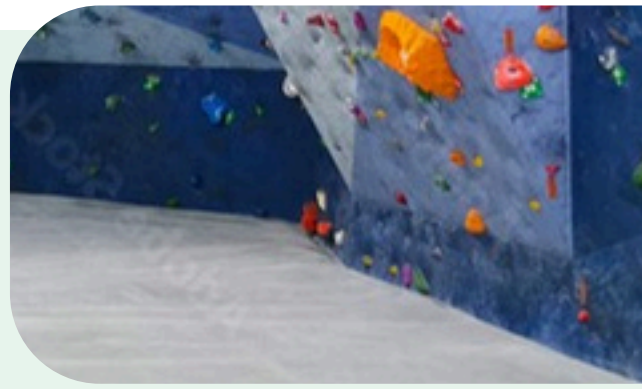
## Training Stability:

In gymnastics and rehabilitation mats, it provides the perfect balance between comfort and stable support. Users do not "sink" into the mat, allowing for confident and precise movement during exercises.

## Equipment Durability:

As an upholstery insert for strength training machines (benches, backrests), the foam withstands thousands of pressure cycles without permanent deformation—unlike standard sponges that quickly lose their elasticity.

## Technical Data & Categories:



### Trampoline Parks and Climbing Walls:

Density: 50 – 120 kg/m<sup>3</sup>

Application: Soft landing zones, safety mats, protection for metal structural elements.

### Gym Mats and Flooring:

Density: 50 – 220 kg/m<sup>3</sup>

Application: From exercise mats (lightweight) to subfloors for rubber tiles in heavy-lift zones (heavyweight).

## Sports Equipment (Components):

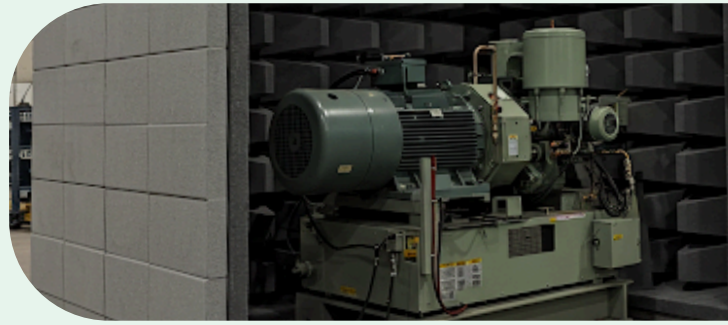
Density: 120 – 150 kg/m<sup>3</sup>

Application: Rigid upholstery fillings for strength equipment, resistant to concentrated point loads.

### Certification:

The product holds the PZH Hygiene Certificate (safe for skin contact).

# TRANSPORT AND INDUSTRIAL APPLICATIONS



## Load Safety and Precision Vibration Isolation

In transport and industry, there is no room for fragile solutions. We offer technical blocks and sheets of the highest density (from 140 to 250 kg/m<sup>3</sup>), designed to handle extreme loads. Our Rebond foams effectively protect heavy cargo, dampen machine vibrations, and serve as a critical element of technical equipment.

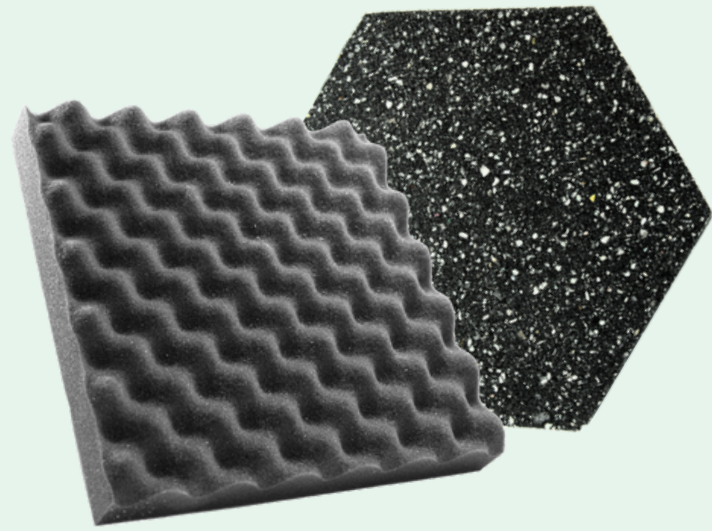
**Load Secure System:** A high friction coefficient and superior crush resistance make our underlays stabilize cargo more effectively than wood or rubber.

**Vibration Reduction (NVH):** Effective damping of noise, vibration, and harshness in machinery, vehicles, and steel structures.

**CNC Precision:** The ability to cut any shape – from simple spacers to complex 3D forms designed to secure specific goods.

**Durability:** The material is resistant to oils, greases, and varying weather conditions.

# PRECISION-CUT SHAPES AND DECORATIVE PANELS



## Hexagons

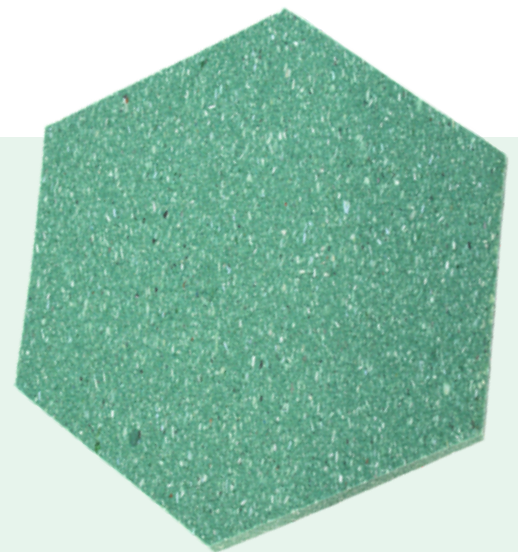
**Modern Design:** The geometric honeycomb shape aligns with the latest trends in office and commercial interior design, transforming an ordinary wall into a high-impact visual feature.

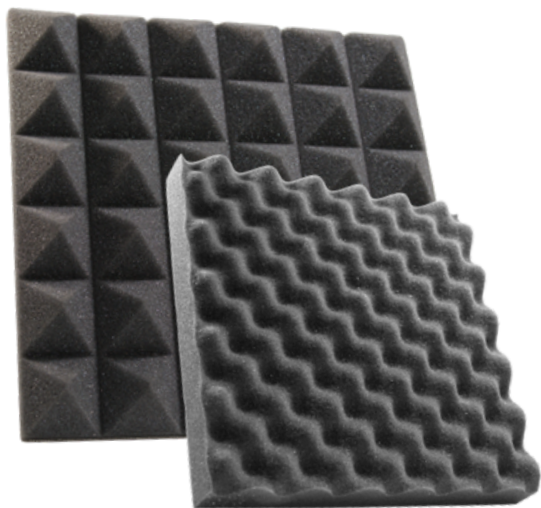
**Creative Freedom:** The modular form allows for the creation of unique compositions and patterns, giving architects the freedom to define the character of any space.



We offer decorative panels and professional acoustic treatments that effectively shorten reverberation time and eliminate echoes.

By profiling the surface, we increase the active sound-absorbing area of the material.





**Pyramids (Conical Profile):** A classic, sharp profile that not only absorbs but also partially diffuses sound waves. Ideal for recording studios and listening rooms.

**Sinusoid (Wave Profile):** A gentler, "egg-crate" structure. A popular choice for soundproofing transport crates, machinery, and voice-over booths.

**Applications:** Open-plan offices, conference rooms, music studios, as well as protective technical inserts for flight cases.

## Custom Solutions: Precision Without Limits

Need a custom-made component? Thanks to our advanced machinery, we can cut Rebond foam into any 2D or 3D shape with millimeter precision.

**Prototyping:** Rapid production of single units and samples.

**Machine Parts:** Gaskets, spacers, and technical fillings.

**Custom Packaging:** Inserts perfectly tailored to your product's dimensions.



## Technical Data

**Technology:** CNC contour cutting, milling.

**Materials:** Rebonded foam (multicolor) and technical PU foams.

**Industries:** Interior design, automotive, packaging.



As a manufacturer, we offer full flexibility. We cut foam to size, select technical parameters specifically for your project, and provide material samples.

Whether you are developing a housing estate, manufacturing furniture, or securing cargo – we will find a solution tailored precisely to your needs.

**Just get in touch – we'll take care of the rest!**

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