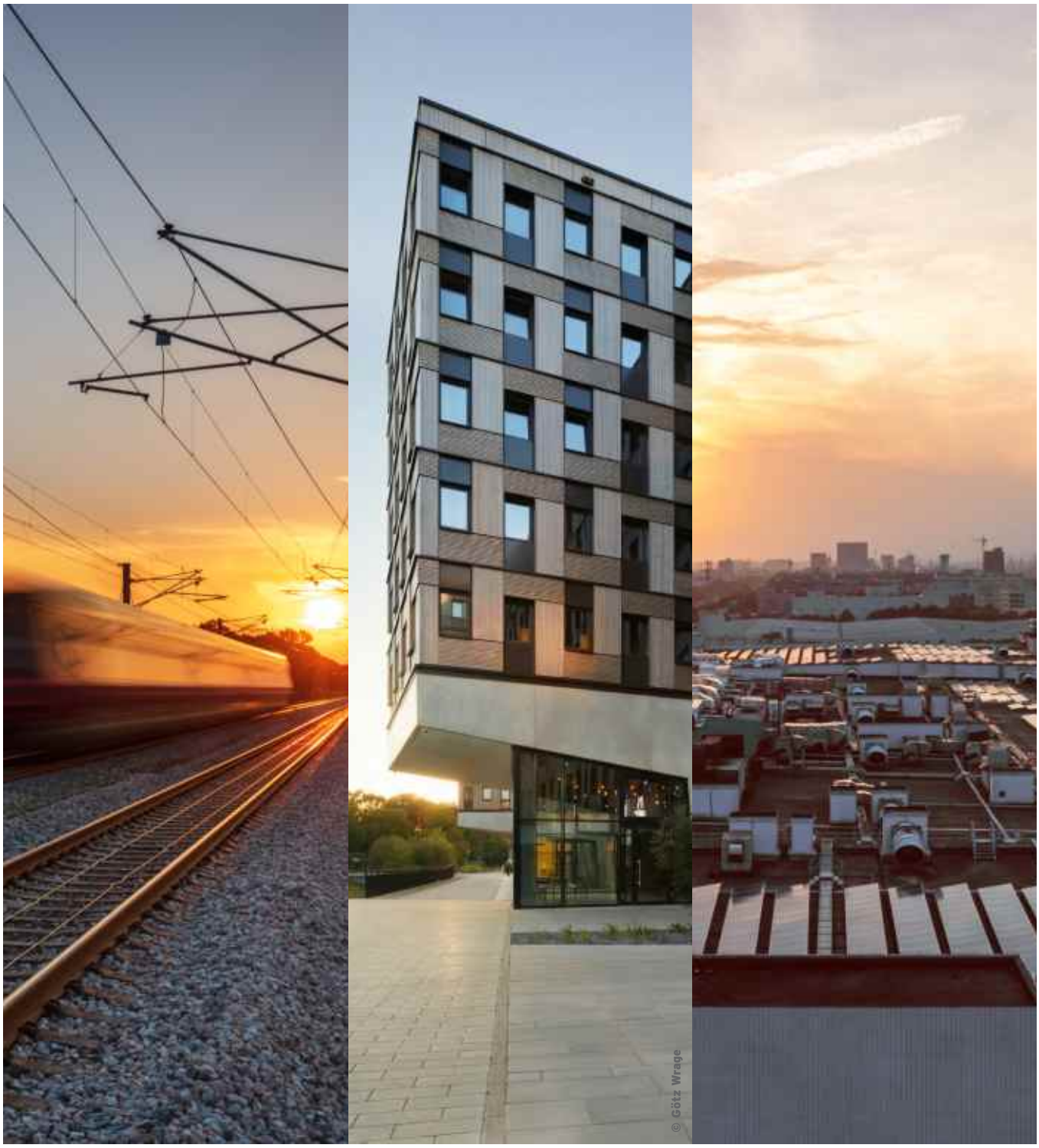
ENGINEERING A QUIET FUTURE



getzner

GETZNER WERKSTOFFE

We are proud to be the leading global specialist in vibration isolation in the railway, construction and industrial sectors. Our sophisticated elastic solutions minimise vibrations and noise while helping to protect structures, make systems more efficient and improve comfort.

Getzner Werkstoffe was founded in 1969 as a subsidiary of the long-established Getzner, Mutter & Cie. and has its headquarters in Bürs, Austria.

Alongside several locations in Europe, the company has offices in Asia, Australia, North and South America. A team of global sales partners supports its international network. Today, more than 500 employees worldwide are working on solutions for a better future: quieter, more resilient and more sustainable.

Getzner Circular Technologies is a Getzner Werkstoffe Group company that develops and produces recycled elastomers based entirely on polyurethane. Our investments in Italian rubber processing company Isolgomma SpA and Austrian recycling specialist TecInn back up our commitment to a sustainable circular economy.

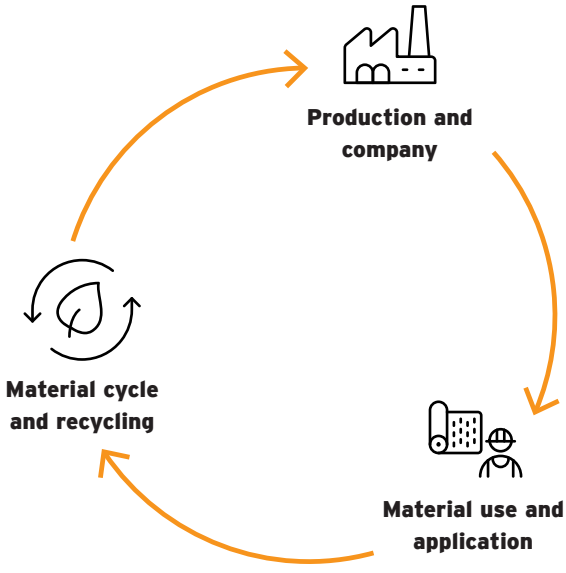
VIBRATION PROTECTION AND SUSTAINABILITY

Vibrations and noise have a significant impact on people and the environment. That's why we have made it our mission to develop innovative solutions for sustainable vibration protection.

Climate-friendly production and looping our materials back into the material cycle are one aspect of this. But our solutions also bring sustainability to the customer side – by increasing the service life of systems, reducing maintenance costs and maintaining their performance for decades.

Our 360° sustainability approach lets us consider the entire life cycle of our materials and zero in on production, use and recycling.

We focus on conserving resources during production and do not emit any harmful emissions into the environment. 100 % of our electricity comes from renewable sources, thanks to our company-owned hydroelectric power plants and photovoltaic system. We use waste heat from our manufacturing processes for our own needs along with the local district heating system.



Our elastic solutions are used for vibration isolation and protection. They extend the service life of systems, reduce maintenance costs and increase availability and reliability – to permanently cut overall system emissions.

Due to its durability and exceptionally stable material characteristics, we focus on recycling polyurethane and have founded our subsidiary Getzner Circular Technologies to this end. We have also taken this commitment a step further by investing in Isolgomma, whose rubber solutions contain over 90 % recycled material and feature in our portfolio.

Our commitment to sustainability is verified and certified by the EcoVadis rating. An Environmental Product Declaration (EPD) is also available for our Sylomer® and Sylodyn® materials.

More information on the topic of sustainability:

getzner.com/sustainability

THE WORLD NEVER STOPS MOVING

Vibration and noise are among the central challenges of modern life today. Dense urban areas, increasing railway traffic and a high degree of mechanisation generating dynamic loads have significant impact on people, buildings and systems in equal measure.

Noise has a negative effect on our health and is a recognised form of environmental pollution. Vibrations not only impair human well-being, dynamic loads also lead to malfunctions, accelerated wear and shortened life cycles.

We respond to these challenges by developing elastic solutions that deliver targeted vibration control and effectively decouple systems. They reduce structure-borne noise, minimise dynamic loads and extend the service life of technical systems and buildings. Trains run more quietly, machine performance becomes more stable and people enjoy significantly more peace and quiet in indoor areas.

Resolving typical conflicts of interest:

- The global expansion of railway networks improves the carbon footprint – elastic system solutions also keep the surrounding area quiet and the railway infrastructure reliable at all times.
- An efficient public transport network reduces emissions – we make sure people don't feel the resulting vibrations in buildings.
- Mixed-use buildings create valuable living space in city centres – elastic bearings ensure acoustic comfort and open up additional planning freedom.
- Even efficient heat pumps cause structure-borne noise – our bearings prevent irritating humming noise and protect technology and buildings.

WE PROVIDE PEACE AND QUIET

Getzner is the answer wherever rigid systems reach their limits. Our expertise lies in providing the necessary elasticity – with the right dimensions, the right process and the right material.

Vibrations are a physical quantity that occurs in all technical systems. They propagate as structure-borne noise and are perceived as secondary airborne noise at distant locations. What is often barely noticeable at the source can be clearly perceptible elsewhere in the form of vibrations, droning or noise. However, the transmission of these effects can be specifically controlled through suitable vibration isolation.

This is precisely our area of expertise, because Getzner develops solutions with precision-engineered elasticity to reduce vibration energy, interrupt transmission paths and protect systems over the long term. Based on extensive research, in-house development and decades of project experience, we are one of the world's leading specialists in the field of vibration isolation.

The results are convincing:

- Our solutions permanently reduce vibrations, minimise structure-borne noise transmission and lower airborne noise levels.
- Maintenance and servicing costs decrease due to lower wear and more stable operating conditions.
- Our materials offer exceptional durability and extend the service life of bedded components.
- Comfort and quality of life see a measurable improvement – in buildings, on railway lines and in urban areas.

ELASTIC SOLUTIONS WITH UNIQUE PROPERTIES

Our materials create a wide-ranging portfolio with carefully tailored product lines – from foamed polyurethane materials to high-performance materials made from recycled polyurethane and recovered rubber to hybrid spring components.

Each material has clearly defined physical characteristics and enables precision-engineered vibration isolation for demanding technical applications.

Developed in house, our polyurethane materials Sylomer®, Sylodyn® and Sylodamp® are the core of our product portfolio. Their different cell structures give them precisely defined spring, damping and creep characteristics, which they retain for decades – without plasticisers, without losing their effectiveness and completely maintenance-free.

Boasting a high degree of long-term stability, Relomer® offers a resource-efficient alternative that impresses from both an environmental and functional perspective, as it is composed entirely of recycled PU. The range also includes Isolgomma products made from recycled rubber that boast particularly strong acoustic performance.

The Isotop® product line combines the advantages of our elastomers with the robustness of metal components to form compact, stable machine bearings.

All of our materials put in their best performance when precisely matched to the respective requirements. Their performance is based on the fundamental principles of vibration isolation:

- Reducing dynamic stiffness
- Shifting natural frequencies of the system
- Damping structure-borne noise
- Limiting load peaks
- Minimising energy transfer along transmission paths

Thanks to this approach, we deliver the right degree of elasticity in rigid systems – from track infrastructure, to building structures, to equipment technology.

THE RIGHT MATERIAL FOR EVERY REQUIREMENT

SYLOMER®

Sylomer® is a sophisticated PU material with a mixed cell structure that combines spring and damping properties. The standard types cover a wide static application range from 0.011 N/mm² to 1.2 N/mm² and set the stage for precision engineering.

SYLODYN®

Sylodyn® is a closed-cell PU material that does not allow water absorption and boasts distinctive spring characteristics. It is designed for very high static and dynamic loads. The standard types cover a wide static application range from 0.075 N/mm² to 12 N/mm².

SYLODAMP®

Sylodamp® is a high-damping PU material with a viscoelastic structure. This enables particularly high energy absorption and converts shock and impact loads into damped movements. The static application range is between 0.005 N/mm² and 0.5 N/mm².

ISOTOP®

Vibration dampers from the Isotop® range serve as compact, easy-to-install machine bearings. They combine the high vibration-isolation performance of our elastomers with the advantages of metal springs and components.

RELOMER®

Relomer® is a specially developed PU material based on recycled content. Its characteristic properties – such as high long-term stability, low creep tendency and long-term effectiveness – are fully retained. This makes Relomer® ideal for sustainable elastic applications.

RUBBER-GRANULATE

Isolgomma is a Getzner Werkstoffe Group company that processes fibres and granules made from recycled rubber into high-quality elastomers. They combine high-performance noise insulation and vibration damping with an excellent carbon footprint and a high degree of sustainability.

OUR SOLUTIONS FOR RAILWAY SUPERSTRUCTURES

Railway networks around the world are being expanded and existing routes modernised to ensure efficient and sustainable transport for passengers and freight. By providing targeted protection for the superstructure and extending maintenance intervals, the availability of railway infrastructure can be significantly increased. High-performance elastic system solutions play a crucial role in this by reducing load peaks, stabilising the superstructure and protecting the ballast. At the same time, these solutions reduce vibration and noise emissions, thereby improving quality of life where railway lines run close to residential areas.

YOUR BENEFITS

- Lower maintenance costs and longer service life
- Increased track availability and reliable operation
- Less noise and better quality of life along the line
- Sustainable improvement of carbon footprint

We have been working together with our customers and partners for decades to make technical optimisations to railway superstructures. As system experts in the railway sector, we research, develop and test elastic solutions to significantly reduce dynamic loads on the track.

Putting elasticity to targeted use reduces load peaks, limits the transmission of vibrations to the subsoil and stabilises the track geometry. This minimises wear to rails, sleepers and ballast, reduces structure-borne noise and related emissions and increases the operational safety and availability of railway lines in the long term.

Our areas of focus

Standard-gauge railway, high-speed
Our solutions protect and optimise the track superstructure, minimise dynamic loads and reduce wear and noise for reliable and economical railway operations.

Heavy freight
Under extreme axle loads, our elastic solutions protect the track structure, reduce maintenance costs and extend the service life of the entire system. Limiting dynamic forces in a targeted manner keeps the superstructure stable in the long term – even under the highest loads.

Urban transport
Our solutions reliably reduce vibrations, shocks and track noise in urban areas. Targeted dynamic decoupling effectively minimises the transmission of structure-borne noise. Based on this approach, we protect residents and buildings, improve passenger comfort and create the conditions for quiet, high-performance and sustainable urban infrastructure.

Functional areas

Vibration isolation
Suitable vibration protection systems decouple dynamic loads exactly where needed and limit their transmission into the subsoil. This prevents structural damage and protects residents, buildings and sensitive areas in the long term.

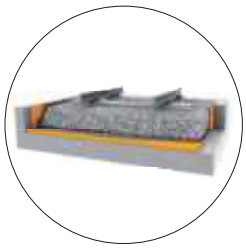
Superstructure protection
Protecting the superstructure reduces life cycle costs and increases operational safety. Reducing wear on rails, sleepers and ballast stabilises the track structure – and sustainably improves the carbon footprint by lowering material consumption.

Noise reduction
A defined degree of elasticity in the superstructure effectively reduces airborne and structure-borne noise. This inhibits noise right where it occurs and improves acoustic comfort along the line – reliably, sustainably and permanently.

OUR RAILWAY PORTFOLIO

Mass-Spring Systems

Sleeper Pads



Under Ballast Mats

Rail Pads

Sleeper Boots Pads

Baseplate Pads

getzner.com/railway

OUR APPLICATIONS FOR THE CONSTRUCTION SECTOR

More and more people around the world are living in urban areas. Living, working and leisure activities increasingly take place in close proximity within densely built-up cities. This concentration presents growing challenges, as traffic, technical facilities and mixed-use buildings generate noise, vibrations and structure-borne sound, which are increasingly causing problems.

YOUR BENEFITS

- Vibration protection for the supporting structure
- Less structure-borne and impact noise
- High acoustic comfort in the building
- Flexible planning in terms of location and use
- Long-lasting solutions for sustainable management

Our sophisticated materials are the starting point for the elastic bearing of buildings and high-performance building acoustic systems. We put them to targeted use to decouple buildings from external vibrations. This reduces the transmission of structure-borne noise from traffic, track infrastructure and building services equipment and effectively protects load-bearing structures from dynamic loads. Used in acoustic floor systems and component decoupling systems, our materials improve room acoustics by minimising impact noise, dampening resonances and reliably cutting off sound bridges. Our solutions create quiet and comfortable interior spaces – even in densely built-up urban areas and mixed-purpose buildings that see intensive use.

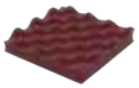
Our areas of focus

Building base isolation
We use custom-designed elastic bearings to decouple buildings from traffic-induced vibrations and structure-borne noise – exactly where needed. This protects load-bearing structures while creating interiors with high-quality acoustics.

Building acoustics
We make sure that key structural components are decoupled to minimise sound transmission. This enables consistently high acoustic performance – even in lightweight construction, mixed-use buildings and renovation projects.

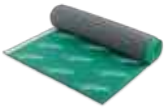
Fitness sector
Floor systems equipped with our materials effectively reduce impact noise and minimise the transmission of vibrations to adjacent rooms and building components. Gym Shock Absorb plays a key role in the reliable absorption of high impact loads – even under intensive use.

Product lines for the construction sector



Acoustic Floor Mats
Effectively reduce impact noise and are suitable for demanding applications in commercial and industrial buildings, as well as in mixed-use buildings and those with high acoustic requirements.

Acoustic Floor Blocks
Used as point bearings for floor systems requiring the highest acoustic performance, for example in recording studios, cinemas, equipment rooms or gyms.

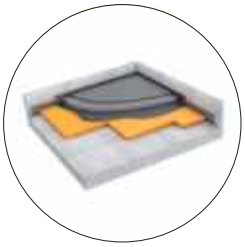


ROLL, GREI, UPGREI
Ensure consistently high acoustic performance and sustainable impact noise protection. The granulated rubber mats are optimised for quick, efficient installation.

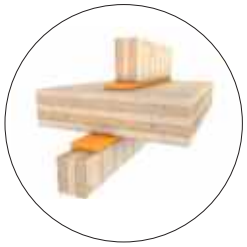
Gym Shock Absorb
Effectively reduces impact noise and provides reliable shock absorption in the fitness sector.

OUR CONSTRUCTION PORTFOLIO

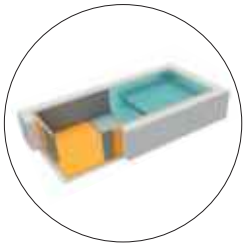
Building base isolation



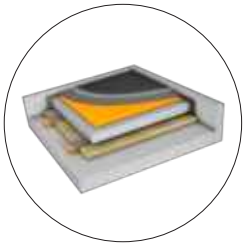
Impact sound insulation



Bearing of flanking components in timber construction



Pool bearings



Fitness flooring

getzner.com/construction

VIBRATION ISOLATION IN THE INDUSTRIAL SECTOR

Enhanced comfort thanks to quieter equipment, more stable operation, greater precision and lower maintenance requirements – our vibration isolation solutions for the industrial sector deliver it all.

YOUR BENEFITS

- Quieter equipment thanks to highly effective vibration isolation
- Less secondary airborne noise, even in installation locations where acoustic aspects are critical
- Lower maintenance and operating costs due to reduced wear
- Efficient planning and installation thanks to simple design and easy-to-install systems
- Stabilises operation for greater precision and functionality

Custom solutions are available for a wide range of applications. We offer a versatile product line for the elastic bearing of machines, equipment and technical systems with our Isotop® machine bearings. It all comes down to a unique combination of robust metal components or steel springs and a high-performance PU core, which enables particularly efficient vibration isolation.

Our areas of focus

Heat pumps
Elastic mounting of the compressor within the unit, as well as of the entire heat pump, ensures a lasting reduction of unwanted noise.

Air-handling units and refrigeration systems
Decoupling systems from the building is particularly important for roof-top installations and mezzanine floors.

Machine engineering
The right vibration dampers deliver greater productivity and faster running speeds for production machines.

Rolling stock manufacturing
The bedding of the floor or installation elements improves rail passengers' comfort.

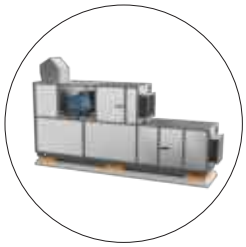
Customer-specific solutions
We support OEM customers with our expertise, offering project-specific consulting and system design tailored to individual requirements.

Shock impact insulation
Our Sylodamp® product line has been specifically designed for impact insulation, providing optimal protection for sensitive equipment such as electronic components. For the exceptional impulse-type loads occurring during earthquakes, Isotop® DZE 3D was developed as a machine mount specifically suitable for seismic applications.

OUR INDUSTRIAL APPLICATIONS

Bearing of heat pumps

Compressor bearings



Bearing of air-handling units

Floating floors in rail cars

Machine bearings

getzner.com/industry

FIRST-CLASS SERVICE

Working closely with our customers, we strive to develop bespoke solutions to vibration-related challenges, drawn from our extensive technical expertise.

We understand how elasticity performs within otherwise rigid systems. A comprehensive understanding of the overall system forms the basis for this approach.
Our experts come from the fields of physics, civil engineering, mechanical engineering, acoustics, polymer engineering, chemistry, as well as production and process engineering. In collaboration with our partner network, we offer a broad range of services.

Material selection
Your requirements form the basis for our specially tailored material selection process.

Efficiency forecast
We draw upon sound calculation models to simulate the effectiveness of the vibration protection before installation.

Installation plans
A detailed installation plan will be produced on request.

Supervision during installation
Our specialists attend your premises in person. From the briefing on the construction site, to installation, through to commissioning and acceptance of the elastic bearing, they are on site to support your project.

DISCOVER OUR ONLINE CALCULATION TOOLS

Our calculation and material selection tools are free to use at **apps.getzner.com** following a simple registration process. They offer a quick and easy way of finding the perfect solution for your project.

If you have any questions, please do not hesitate to get in touch with your Getzner contact partner.

getzner.com/calculation-tools

FreqCalc®
Calculates the effectiveness and behaviour of our elastic solutions.

EquipCalc
Finds the right machine bearing at the touch of a button.

TimberCalc
Determines the fitting material for your timber construction project.

FloorCalc®
Calculates the perfect impact noise protection.

WMUF.AT

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Our printing is **climate neutral.**

Effective protection thanks to precision-engineered vibration isolation

Proven effectiveness and decades of experience

Technical expertise, service and a comprehensive understanding of the system

Sustainable during production, use and through recycling

ENGINEERING A QUIET FUTURE

Getzner Werkstoffe is a leading global expert in vibration isolation for the railway, construction and industrial sectors. Advanced elastic solutions are designed to minimise vibration and noise, helping to safeguard structures, enhance system efficiency and improve comfort.

Datasheets, case studies and more – download here.

getzner.com/downloads

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