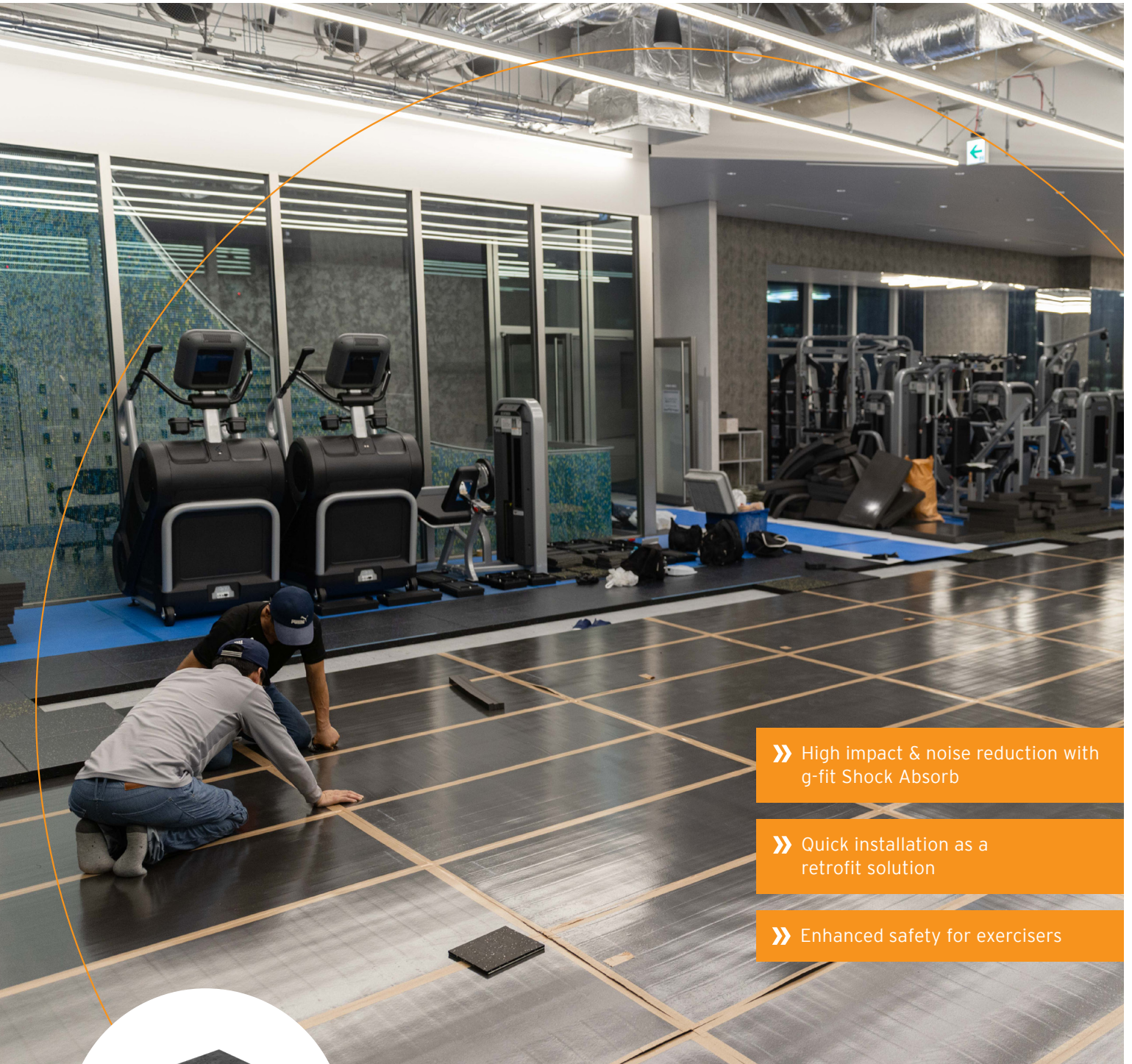


Case Study

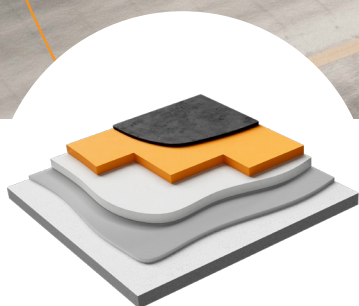
g-fit fitting for the &BIZ fitness centre in Tokyo (JP)



» High impact & noise reduction with g-fit Shock Absorb

» Quick installation as a retrofit solution

» Enhanced safety for exercisers



getzner
engineering a quiet future

Shock protection to prevent vibrating surfaces and noise

The project

The 'BIZ fitness' is an exclusive gym in the Yaesu Central Tower, the centerpiece of the Tokyo Midtown Yaesu business and office center. It's located in the Yaesu district of Chuo, Tokyo (Japan), close to the Imperial Palace and the bustling shopping districts of Nihonbashi and Ginza. This 240-meter-tall skyscraper was completed in 2022 as the tenth tallest building in Japan.

The view on the 24th floor is breathtaking for the athletes training there. In the "Fitness Club in the Clouds," as the operators charmingly call it, visitors can overlook the surrounding neighborhoods from their exercise machines. However, a challenge arose in carefully decoupling the equipment from the building's structure: treadmills, cardio trainers, leg presses, and dropped weights produce vibrations and disruptive noise. After the floating screed was installed, the original

vibration insulation specifications were met. However, the requirements for protection against noise and vibrations were subsequently increased. In order to verify their fulfilment, the general contractor initiated an architectural acoustic investigation before the opening.

Independent measurements by the owner, the manufacturer of the fitness equipment, and the appointed specialist, 'AGK Acoustic Engineering', ultimately highlighted insufficient vibration insulation – at a time when the building was already occupied and just before its official opening. Faced with the challenge of isolating the spaces beneath the fitness center from the disruptive effects of the gym operations in a short period, AGK Acoustic Engineering approached Getzner Japan.

The Getzner solution

Extensive test series

With the support of Getzner, numerous tests under varying conditions of the gym operation were subsequently carried out. The comprehensive studies showed that using Getzner's g-fit Shock Absorb achieves efficient shock absorption and the desired noise reduction.

Quickly delivered

In just a few weeks, Getzner delivered and installed around 200 square meters of the high-tech elastomer, which impressed the clients with a construction height of only 75 mm, thus presenting the ideal retrofit solution for the already completed floor area. The free-weight area and the surroundings of the leg presses were the most critical sections because shocks are inevitable when setting down weights.

Within a few weeks, the gym's floor was retrofitted with the g-fit high-tech elastomers, reducing the transmission of vibrations and noise to the floor below.



»The unique damping properties of g-fit Shock Absorb convinced us.

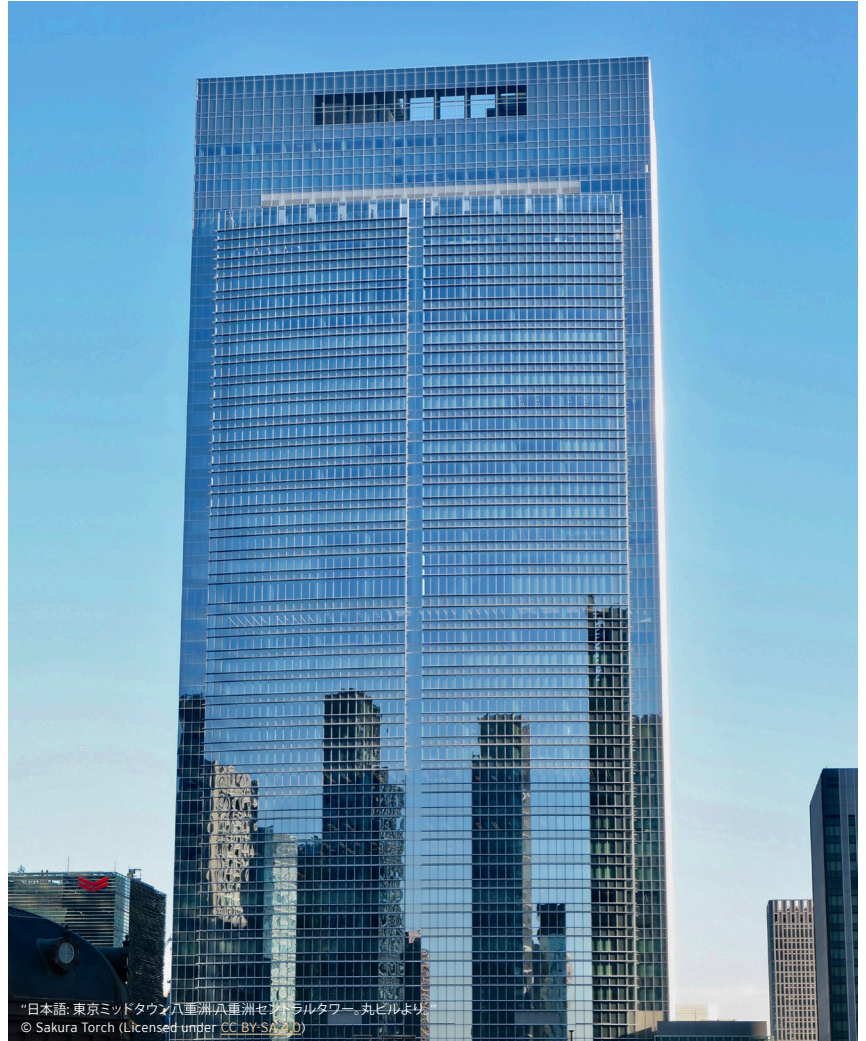
Mr. Yoshinori INOUE,
AGK Acoustic Engineering Co., Ltd.

Here, the g-fit Shock Absorb Extreme product was used, achieving an acoustic damping of over 22 percent compared to the initial state.

Convincing results

“The unique damping properties of g-fit Shock Absorb convinced us,” confirms Mr. Inoue from the acoustic engineering office AGK Acoustic Engineering Co., Ltd., adding, “With the building’s opening imminent, Getzner also greatly assisted us with their very short delivery time.”

Mr. Inoue was also impressed by the durability of g-fit: Thanks to the consistent material properties, the vibration isolation layer provides reliable performance over decades.



日本語: 東京ミッドタウン八重洲丸ビルセントラルタワー。丸ビルより
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Benefits



Shock reduction
for reduced force
transmission to the
building structure



Increased safety
for exercisers due
to damped rebound
of weights



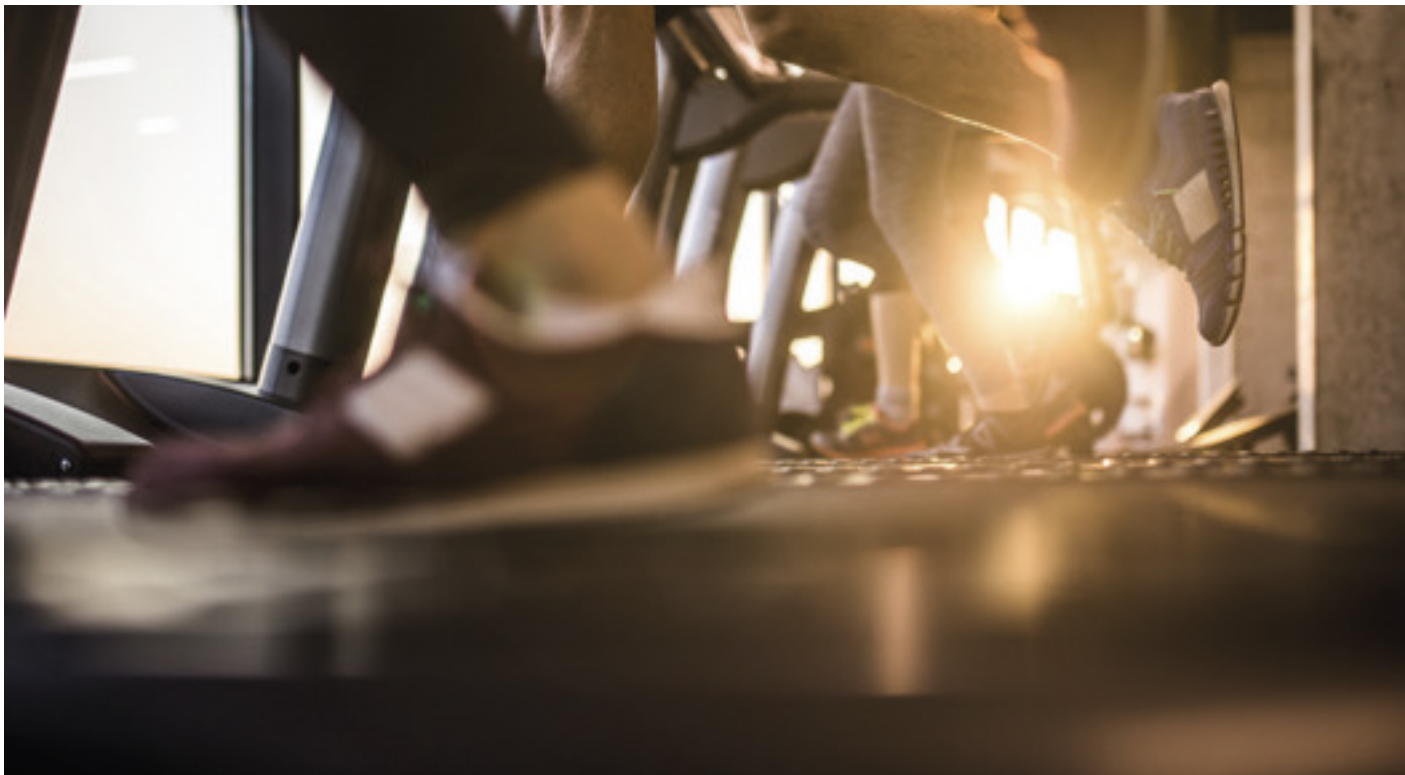
High noise reduction



**Easy-to-retrofit
solution**



No maintenance costs
due to constant
material properties
over decades



Facts

Project: Fitness center in mixed-use high-rise building
Location: Yaesu, Chuo-ku, Tokyo Japan
Client: Takenaka Corporation, Osaka (Japan)
Solution: g-fit Shock Absorb Extreme
Implementation: 2023

About Getzner

We are proud to be the leading global expert in vibration isolation and protection for the railway, construction and industry sectors. Our innovative products are based on our proprietary materials, such as Sylomer®, Sylodyn® and Sylodamp®, and are complemented by spring elements like Isotop. Our applications effectively reduce vibrations and noise. They also reduce wear, extend the service life of the bedded components and help to improve usability, quality and comfort. We specialise in offering integrated solutions and targeted services for sustainable vibration isolation, based on intensive research, climate-friendly production and decades of experience.

We look forward to hearing from you.

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www.getzner.com/contact

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