stravifloor
by CDM Stravitec



HIGH-PERFORMANCE FLOATING FLOORS

ACOUSTIC SOLUTIONS FOR EFFICIENT IMPACT & AIRBORNE NOISE ISOLATION

Why CDM Stravitec?

We take pride in our heritage of noise and vibration expertise and our ability to integrate acoustics with modern construction methods. Our holistic design approach and extensive knowledge of materials set us apart. Using this approach, we deliver high-performing acoustic isolation solutions to the world's largest and most discerning clients.

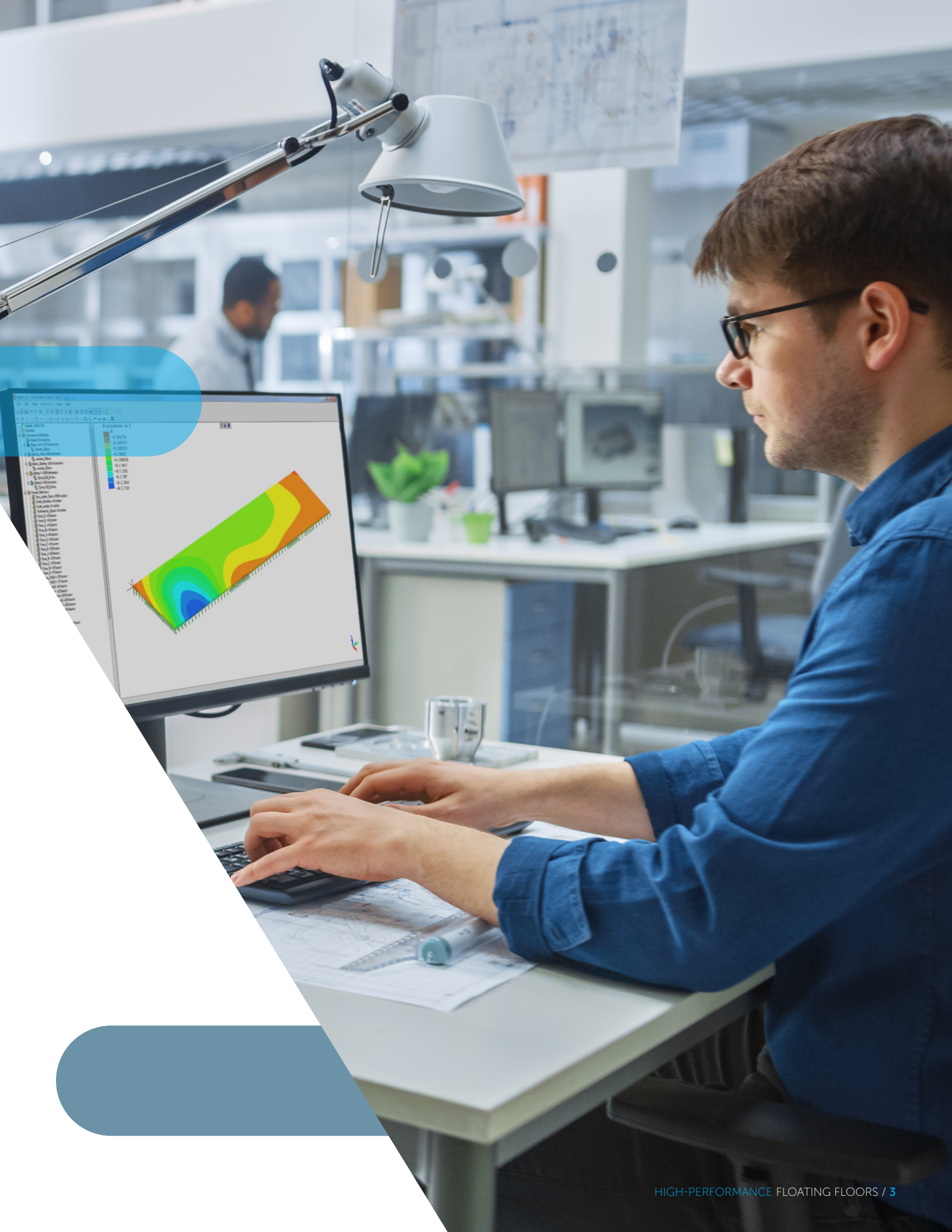
When you work with the team at CDM Stravitec, you are working with some of the most knowledgeable and experienced staff in the industry. Our commitment to effectively manage noise levels shines through in everything we do. From conception to completion, we are a client-focused and full-service solution provider that designs, manufactures, delivers, and installs market-leading noise and vibration isolation solutions - making your world a quieter place.

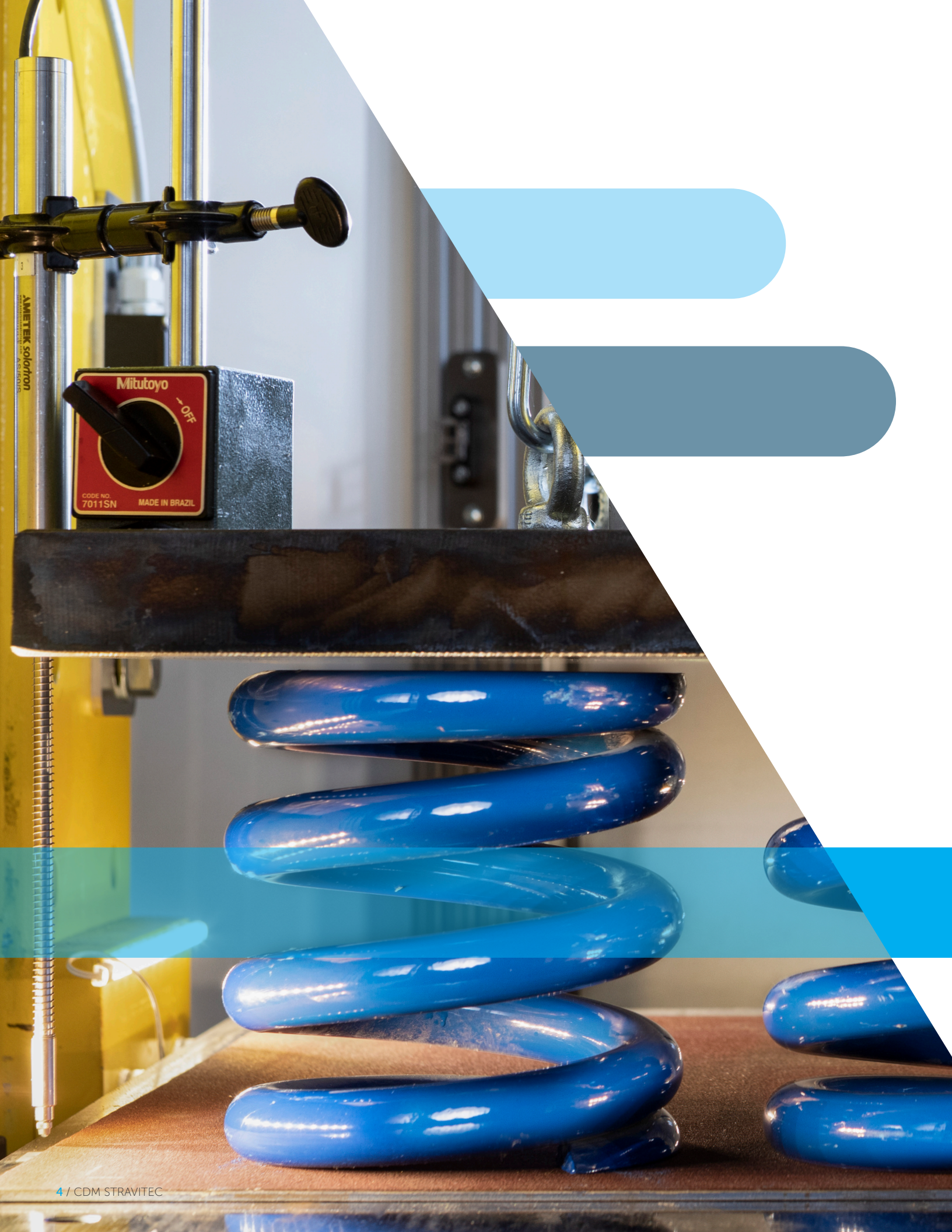
stravidB by CDM Stravitec

DISCOVER OUR NEW TEST DATA PLATFORM

Register to Stravi-dB to find the acoustic test reports of many different Stravifloor and Stravigym floating floor assemblies.






Mitutoyo
OFF
CODE NO.
7011SN
MADE IN BRAZIL
AMETEK solartron

EXPERIENCE

Established in 1951, CDM Stravitec's reputation is built on a passion for solving noise and vibration problems, a professional approach, technical excellence, customer service, and, most of all, our people. Our clients rely on decades of experience and trust us to bring the right solution to every project we undertake.

INTERNATIONAL PRESENCE

With locations in North America, Europe, and Asia, CDM Stravitec is well-positioned to handle projects globally. No matter where you are, CDM Stravitec provides great customer service, engineered solutions, and on-site performance. The diversity of our multilingual staff provides an ideal creative source for understanding technical, practical, local, and cultural considerations. Hundreds of completed projects in more than 50 countries are testimony of our customer satisfaction.

ENGINEERING & CUSTOMIZATION CAPABILITIES

Our highly qualified team of engineers has a thorough understanding of the properties of sound generation, propagation, and its effect, it uses sophisticated calculation software (FEM, SOLIDS, BIM, etc.) to predict system performance, and provide detailed drawings and installation plans for each project. Because of this, clients welcome us working closely with them and their project teams.

RESEARCH AND DEVELOPMENT

CDM Stravitec's ongoing R&D program continuously expands the understanding of raw materials. Continuous investment into acoustical and mechanical property testing (in-house testing) allows us to provide material science and test reports for many applications. Collaboration with leading international universities and testing institutes enables us to develop high-performing acoustical solutions for tomorrow.

INSTALLATION ASSISTANCE

How well an acoustic floating floor performs largely depends on the quality and care taken during installation (eliminating possible mechanical bridging and noise flanking). By overseeing installation and addressing any issues that may occur, we can provide the necessary warranties, giving you complete peace of mind. CDM Stravitec is registered and insured to provide installation in many regions of the United States and Canada.



Why
High-Performance Floating Floors?

Increasing populations density and urbanization is making the standard for low noise and vibration ever more stringent. This is causing an increase in demand for high-quality and efficient noise and vibration isolation systems following the need to build faster, lighter, and with bigger spans.

These trends pose new challenges to the design of high-performance floating floor systems aimed at mitigating vibration, and reducing impact and airborne noise. Stiffening the structure to change its dynamic performance is a suitable but costly measure.

Today, floating floor systems are part of state-of-the-art building technology. They are a cost-effective and efficient option to improve the acoustical performance of our buildings and are commonly part of box-in-box systems installed in high-performance spaces. Floating floors are usually made of poured-in-place concrete or of lightweight panel systems, supported by resilient elements that transfer the loads from the floating floor to the subfloor.

A floating floor system can have three functions, or a combination thereof, depending on the final objective in the building design:

AIRBORNE NOISE ISOLATION

An increase of the airborne isolation properties of the floor structure. E.g.: floors of mechanical equipment rooms, musical/ rehearsal spaces, recording studios, bowling alleys, etc.

VIBRATION ISOLATION

An increase of vibration isolation properties of the structural floor, supporting vibration generating machines. E.g.: floors underneath generators, air-handling units, transformers, pumps, and other building service equipment.

IMPACT NOISE ISOLATION

An increase of the impact noise isolation properties of the floor structure. E.g.: floors of rooftop bars, ballrooms, classrooms, hallways, etc.

STRAVIFLOOR SOLUTIONS ...

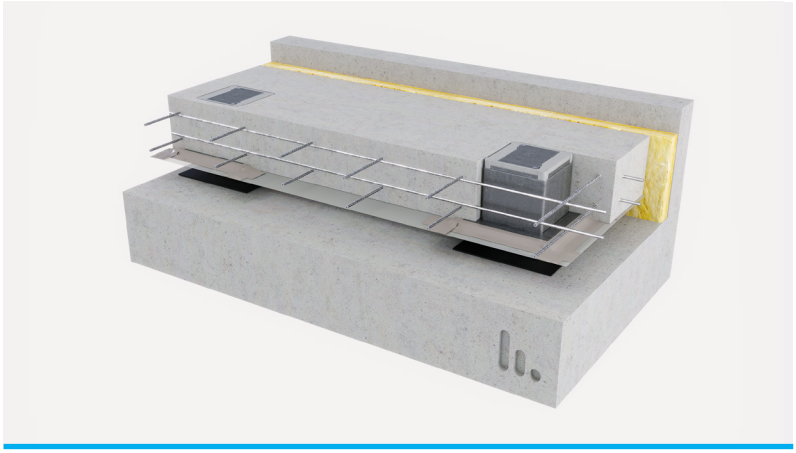
- have an outstanding dynamic to static stiffness (K_{dyn}/K_{stat}) ratio, allowing a low resonant frequency at minimal deflection;
- use elastomeric isolators with low stiffness and high resilience, achieving a natural frequency of ≥ 6 Hz or springs achieving a natural frequency of ≥ 2.5 Hz;
- use resilient elements that offer extremely low and constant resonant frequency over a wide load range;
- are durable and have an exceptionally low creep rate;
- use mold and water-resistant isolators;
- incorporate an air void to maximize airborne noise isolation (excl. Stravifloor Mat);
- allow for an extremely low-profile floating floor system;
- use isolators that remain accessible and replaceable even after installation and concrete pour (jack-up systems);
- provide the least amount of contact points reducing the potential for acoustical bridging.

Note: to limit the floating floor system deformations in the load window without jeopardizing the noise and vibration integrity, it is important that the ratio of dynamic to static stiffness, the so-called r-factor, is limited to < 2. Having a lower r-factor, CDM Stravitec elastomers have a high performance with a low deformation.

Where to Use
Stravifloor Solutions?

Application	Stravifloor Jackup-R	Stravifloor Jackup-E	Stravifloor Mount	Stravifloor Channel	Stravifloor Deck	Stravifloor Mat
Main Benefit	Few Contact Points; Guaranteed Separation from Subfloor	Guaranteed Separation from Subfloor	Discrete Solution	Discrete Solution with Enhanced Stability	Low-Profile Floating; Concrete Deck System	Roll-Out Solution
Natural Frequency (f_n)	Elast. ≥ 6 Hz Springs ≥ 2.5 Hz	Elast. ≈ 9 Hz	≥ 6 Hz	≥ 6 Hz	Elast. ≥ 6 Hz Springs ≥ 2.5 Hz	≥ 9 Hz
Cinema & Theater	●●	●●	●●●	●	●●	NR**
Recording Studio & Radio Station	●●●	●●	●●	●●	●	NR
Music Practice & Rehearsal Room	●●	●●	●●	●●●	●●●	NR
Mechanical Equipment Rooms	●●●	●●	●●●	●●●	●●	NR
Event Space	●●	●●	●●	●●	●●●	●●
Swimming Pool	●	●	●●●	●●	●●	●●●
Basketball Court & Sports	●●●	●●	●●	●●	●	NR
Bowling Alley	●●●	●●	●●	●●	●●●	●
Residential	●	●●	●●	●●●	●●	●●●
Parking Garage	●	●●	●●	●●	●●●	●●●
Medical Laboratory	●●●	●●	●●	●●	●●●	NR
Rooftop Heliports	●●●	●●	●●	●●	●	●
Mass Timber	●	●	●●	●●●	●●●	●
Fitness Floating Floor (concrete)*	●●●	●●●	●	●●	●●	●

* For more information about lightweight fitness floating floors please refer to our brochure Fitness & Gym Isolated Floating Floors.
** NR: Not Recommended.



Extreme Performance

Jack-Up System

Replaceable Isolators

Low Risk of Acoustical Bridging

Stravifloor Jackup-R

Jack-Up System

Stravifloor Jackup-R is a jack-up floating floor system with reinforced steel boxes cast into concrete. Once the concrete has cured, the isolated slab is raised off the structure to the required void depth. Stravifloor Jackup-R boxes allow for easy adjustment of the final floor height as well as replacement of isolators, should the use of the room or load conditions change in the future.

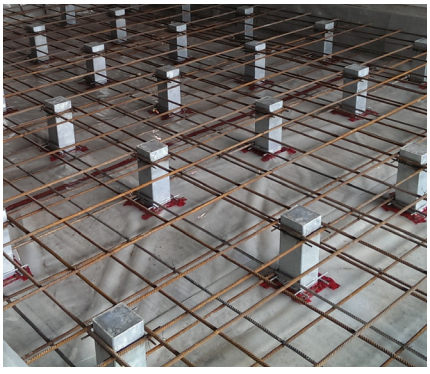
Special, resilient batt insulation can be installed in the void to avoid a standing wave in the air void (which may cause noise breakthrough at high frequencies).

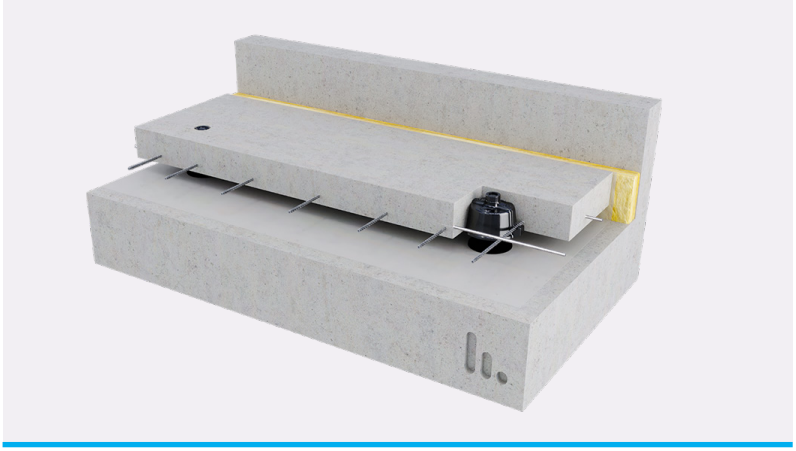
Stravifloor Jackup-R boxes have an extremely high load capacity and, therefore, allow for larger spans and fewer support points than traditional jack-up system. CDM Stravitec leads the industry with a typical 2 m (6.5-ft) o.c. spacing, reducing the quantity of supports and the time to install and jack the floor up by up to 55%. Those savings in both material and labor make jack-up systems affordable, even for the projects with a tighter budget.

This system is available with either spring bearings or natural rubber pads.

Natural Frequency	Elastomeric Pads	≥ 6 Hz
	Springs	≥ 2.5 Hz [50 mm (2") deflection]
Standard Product Height	Box	100 mm (4") 150 mm (6") 200 mm (8")
Minimum System Height	Elastomeric Pads	4-3/4" (120 mm)
	Springs	
Minimum Air Gap	Elastomeric Pads	20 mm (3/4")
	Springs	

Solution datasheet available upon request.





High Performance

Jack-Up System

Low Risk of Acoustical Bridging

Easy & Quick Installation

Stravifloor Jackup-E

Jack-Up System

Stravifloor Jackup-E is a jack-up isolated floating floor system using moulded natural rubber within bell-shaped cast iron housings cast into concrete and jacked up after the concrete has cured, to provide the required void depth.

Once the concrete has cured, the isolated slab is raised off the structure to the required void depth. Stravifloor Jackup-E boxes allow for easy adjustment of the final floor height.

Stravifloor Jackup-E is a cost-effective solution with minimal risk of acoustic bridging between the floating floor slab and the subfloor.

Natural Frequency	Elastomeric Pads	≈ 9 Hz
Standard Product Height	Housing	85 mm (3-3/8″)
Minimum System Height		105 mm (4-1/8″)
Minimum Air Gap		20 mm (3/4″)



Solution datasheet available upon request.





High Performance | Discrete System | Cost-Effective | Easy Installation

Stravifloor Mount
Discrete Pad System

Stravifloor Mount is a discrete pad floating floor system and is designed for fast and easy installation.

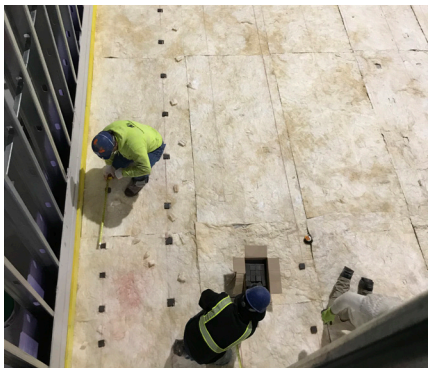
CDM Stravitec elastomeric bearings ensure a high-performance floating floor, providing exceptional structure-borne and airborne noise isolation. The system can be installed with normal-weight concrete, lightweight concrete, or panelized floor systems using plywood or cement board.

This system is available with natural rubber pads.

This system is also available as a pre-manufactured modular floating floor solution, with the pads pre-assembled to the boards, that is delivered on site with detailed installation drawings making it exceptionally easy to install whilst minimizing the risk of installation errors.

Natural Frequency	Elastomeric Pads	≥ 6 Hz
Standard Product Height	Elastomeric Pads	30 mm (1-3/16″) 50 mm (2″)
Minimum Build-up Height	Panelized	60 mm (2-3/8″)
	Concrete	128 mm (5-1/16″)
Minimum Air Gap		36 mm (1-7/16″)

Solution datasheet available upon request.





High Performance | Discrete System | Enhanced Stiffness | Lightweight

Stravifloor Channel

Channel System

Stravifloor Channel is an isolated steel batten system for the support of lightweight, panelized floating floors applications, using strong, galvanized steel channels over the isolation pads.

Stravifloor Channel improves the structural stability of the floating floor and provides lower differential deflection resulting from live load or concentrated loads. It also allows for larger isolation pad spacing, which reduces material and installation costs, and increases acoustical performance through optimization of pad loading and fewer contact points (transmission paths) to the subfloor.

This system is available with natural rubber pads.

Solution datasheet available upon request.

Natural Frequency	Elastomeric Pads	≥ 6 Hz
Standard Product Height	Elastomeric Pads	30 mm (1-3/16″) 50 mm (2″)
Minimum Build-up Height	Wet (Concrete/Screed)	134″ (5-1/4″)
	Dry (Timber/Cement Boards)	66″ (2-5/8″)
Minimum Air Gap		36 mm (1-7/16″)

ECO PLATFORM EPD VERIFIED

Type III Environmental Product Declaration No. 865/2025
EPD Program Operator: Instytut Techniki Budowlanej (ITB)
Validity date: 12.18.2030





High Performance | Discrete System | Low-Profile Concrete | Lightweight

Stravifloor Deck
Floating Deck System

Stravifloor Deck is a low-profile floating floor system using a proprietary dovetailed metal deck for thin concrete pours. The system's high bending stiffness allows for concrete toppings as thin as 50 mm (2 inches), making this system a great solution for projects that require a low-profile or lightweight concrete floating floor. It is also suitable for areas with high live loads.

Using CDM Stravitec elastomeric pads, this system provides a high-performance floating floor system for excellent structure-borne and airborne noise isolation, while minimizing any impact on the available floor-ceiling height.

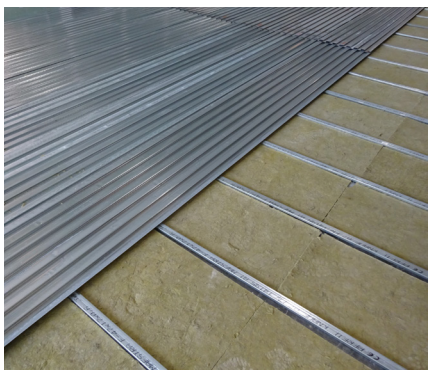
This system is available with natural rubber pads.

! Solution datasheet available upon request.

Natural Frequency	Elastomeric Pads	≥ 6 Hz
	Springs	≥ 2.5 Hz
Standard Product Height	Elastomeric Pads	30 mm (1-3/16″) 50 mm (2″)
	Springs	64 mm (2-33/64″)
	Strips	5 mm (3/16″) 15 mm (5/8″)
Minimum Build-up Height	Elastomeric Pads	86 mm (3-3/8″)
	Springs	120 mm (4-3/4″)
	Strips	61 mm (2-3/8″)
Minimum Air Gap	Elastomeric Pads	36 mm (1-7/16″)
	Springs	70 mm (2-3/4″)

ECO PLATFORM EPD VERIFIED

Type III Environmental Product Declaration No. 866/2025
EPD Program Operator: Instytut Techniki Budowlanej (ITB)
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Medium Performance | Roll-Out System | Cost-Effective | Low-Profile

Stravifloor Mat
Roll-Out System

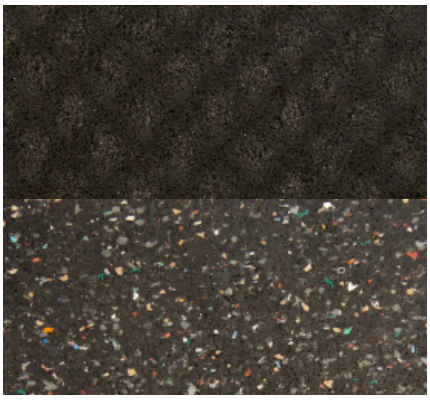
Stravifloor Mat products are a low-profile roll-out isolation solutions made of recycled materials, providing economic structure-borne noise protection. Stravifloor Mat can be used with gypsum, lightweight, or normal weight concrete without the need for formwork, and can also be installed with panelized plywood and cement board panelized systems.

Available in various thicknesses, Stravifloor Mat provides a great level of impact noise reduction with minimal system thickness and is a cost-effective solution to achieve building code requirements for floor-ceiling assemblies. Stravifloor Mat line has flat underlayments (F) and wavy underscreeds (W). The wavy form on the underside of the mat reduces the contact area to the subfloor and reduces the dynamic stiffness of the material to maximize its performance.

Natural Frequency	Mat	≥ 9 Hz
Standard Product Thickness	Mat (Wavy)	25 mm (1") 50 mm (2") 75 mm (3")
	Mat (flat)	4.5 mm (3/16")
Minimum Build-Up Height*	Panelized	55 mm (2-1/8")
	Concrete	95 mm (3-3/4")

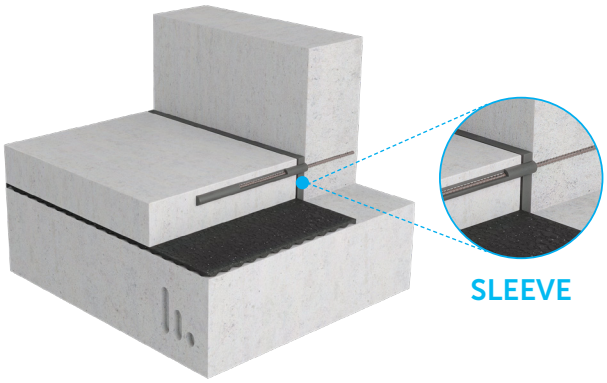
*This applies exclusively to the wavy mat. For the flat mat, the build-up height will depend on the type and thickness of the finishing floor.

! Solution datasheet available upon request.

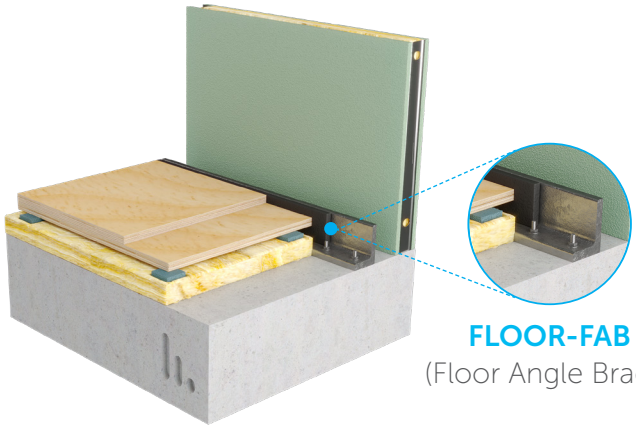


Complementary Restraint Elements

CDM Stravitec provides restraining solutions for floating floors to ensure structural integrity and acoustical performance during and after sesmic events or other external impacts. Additional solutions for uplift protection are available upon request.



SLEEVE



FLOOR-FAB
(Floor Angle Brace)

Accreditations & Memberships

CDM Stravitec is Sponsor of the National Council of the Acoustical Consultants.

NCAC 2026 Silver Sponsor — NATIONAL COUNCIL of ACOUSTICAL CONSULTANTS

CDM Stravitec is a Sustaining Member of the Institute of Noise Control Engineering of the USA.

INCE USA

Q&E Management
CDM Stravitec nv operates ISO 9001:2015 approved quality management system.

CERTIFIED BY ISO 9001 QUALITY MANAGEMENT VINÇOTTE

Please visit our website or contact your local CDM Stravitec representative for more information.

References

At CDM Stravitec, we take pride in the quality of work that we produce. Our extensive resume is comprised of over 10,000 projects completed since 1951. Our diverse project list includes commercial and residential buildings, manufacturing plants, medical facilities, schools, hotels, gyms, and more.

During that time, we have made many contributions to the intelligent design and noise mitigation of buildings with our engineered products. Take a look at some of our latest projects carried out with well-known brands and reputable acoustical consultants.

Museum of Modern Art
New York City (NY)

Stravifloor Mount
Stravibase FacadeFix
Stravilink WallFix



Google HQ
New York City (NY)

Stravifloor Mount



Golding Centre for High-performance Sport
University of Toronto (ON)

Stravifloor Jackup-R

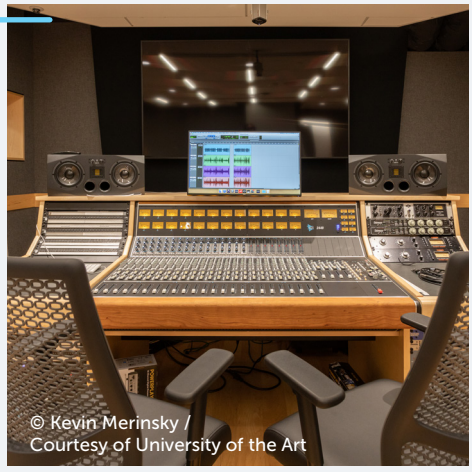


> **We are very pleased with CDM Stravitec's assistance throughout this project. CDM Stravitec provided the pre-construction engineering and shop drawings in collaboration with the acoustical consultant and assisted during installation on site. The process from the shop drawing approval to materials being delivered was extremely fast and better than anticipated. The color-coding of the isolation pads made the installation fast and easy. CDM Stravitec really helped out here.**

C. SMITH - PROJECT MANAGER
RECORDING STUDIO, BROOKLYN (NY)

The University of the Arts
Philadelphia (PA)

Stravifloor Deck
Stravilink PHR
Stravilink WallFix
Housekeeping Pads


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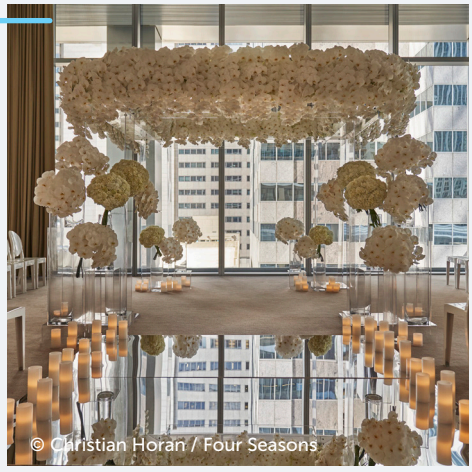

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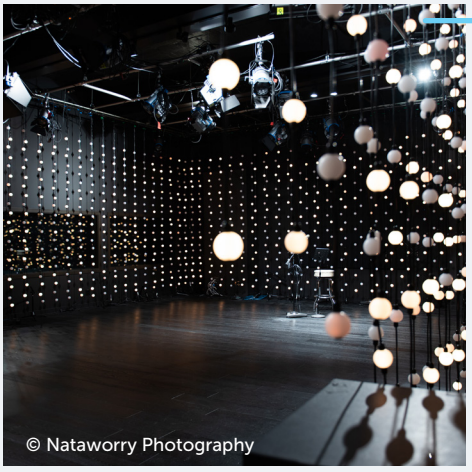
Gimlet Media
Brooklyn (NY)

Stravifloor Mount

Four Seasons Hotel Philadelphia at Comcast Center
Philadelphia (PA)

Stravifloor Deck
Stravilink WallFix


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KEXP Radio Station
Seattle (WA)

Stravifloor Channel


“ WE ARE WHAT WE REPEATEDLY DO. EXCELLENCE THEN IS NOT AN ACT BUT A HABIT.
— ARISTOTLE



Making your world a quieter place

We have qualified engineers in noise and vibration based at different locations around the world – they are only a phone call away.

For general enquiries please contact our head office or visit our website.

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