

28.02.2023

## Station Hill Reading (Phase 1)

Document Reference: CDM-121052-100-A, SHR-MDS-BE-GF-DR-A-04-1002-C03, Extracted pages from Vol 5 - C04, Stravifloor Brochure (EU) (combination) & Stravifloor Channel (EU) Station Hill - Planning Condition 60 for Block E.

*The document referenced above is submitted to Reading Borough Council for approval to*

*Discharge planning condition Block E OPP 60 (Gym Use) prior to Prior to Commercial/Gym Occupation*

*Planning condition 60 requires the following:*

### Block E.

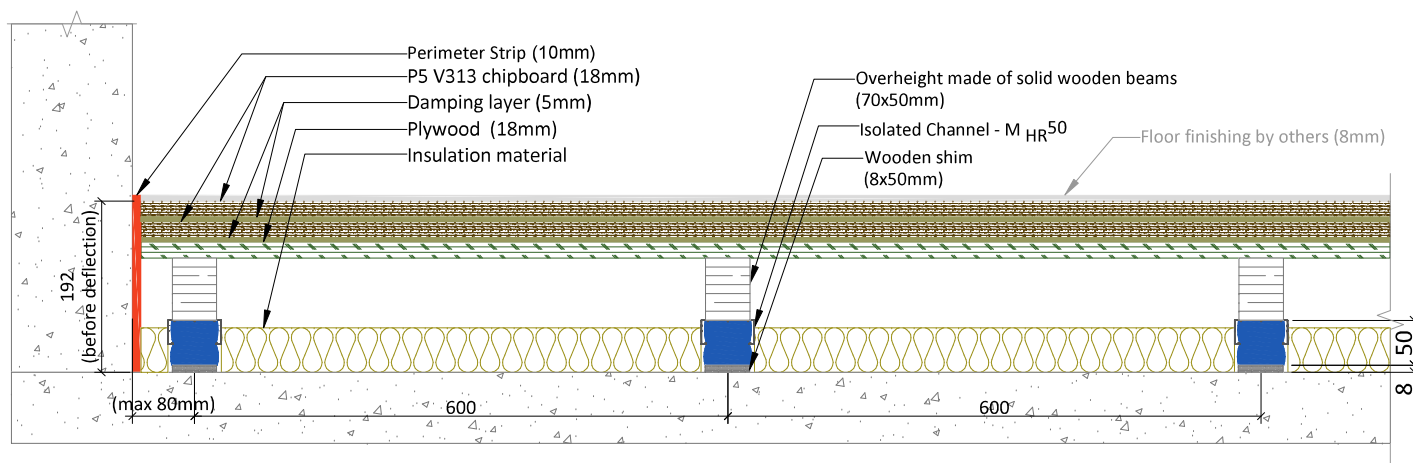
No gym use (Class E, or ancillary to other use) shall be commenced until a detailed Scheme to control airborne and structure borne noise resulting from the gym use, to include a floating floor, or such other mitigation as may be deemed necessary by the Local Planning Authority, has been submitted to and approved in writing by the Local Planning Authority. The Scheme shall be implemented as approved before the gym use is commenced and retained and maintained as such at all times thereafter.

*The following report has been prepared to satisfy Plot E Condition 60.*

CDM-121052-100-A, SHR-MDS-BE-GF-DR-A-04-1002-C03, Extracted pages from Vol 5 - C04, Stravifloor Brochure (EU) (combination) & Stravifloor Channel (EU)

*This document outlines the assessment has been carried out in accordance with the requirements of Phase 1 Development.*





## Notes

Note that the wooden shims should not be glued onto the channels, but screwed.

## Legend

System Stravigym (EN)

1. The structural floor should comply with the required tolerances regarding gradient (0,1% or 1 mm/m) and smoothness (max. 2 mm). It should be dry and free of obstacles, discontinuities, dust, etc.
2. A rigid connection should be avoided between the floating slab and all vertical elements (as walls, columns, ...) by adding a void or a layer of lateral isolation between the isolated slab and the vertical element.

For more detailed information ask for the related Stravigym Installation Manual.

This drawing

- ☐ IS APPROVED  
☐ IS APPROVED WITH CORRECTIONS MADE AS NOTED  
☐ MUST BE RESUBMITTED FOR APPROVAL

BY

DATE \_\_-\_\_-23

|                      |            |       |      |
|----------------------|------------|-------|------|
| First submission     | 17/02/2023 | ATS   | A    |
| Revision Description | Date       | Drawn | Rev. |

Load table

Drawing based on

**cdm**  
**stravitec**

Reutenbeek 9-11  
 B-3090 Overijse Belgium  
 PH: +32 2 687 79 07  
 FX: +32 2 687 35 52  
 info@cdm-stravitec.com  
 www.cdm-stravitec.com

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121052 Station Hill, Reading  
 Gym Floating Floor  
 Section floor build-up

CDM-121052-100-A-01

Drawn:  
 ATS 17/02/2023

Design:  
 IGO

Check:  
 MRO

Scale:

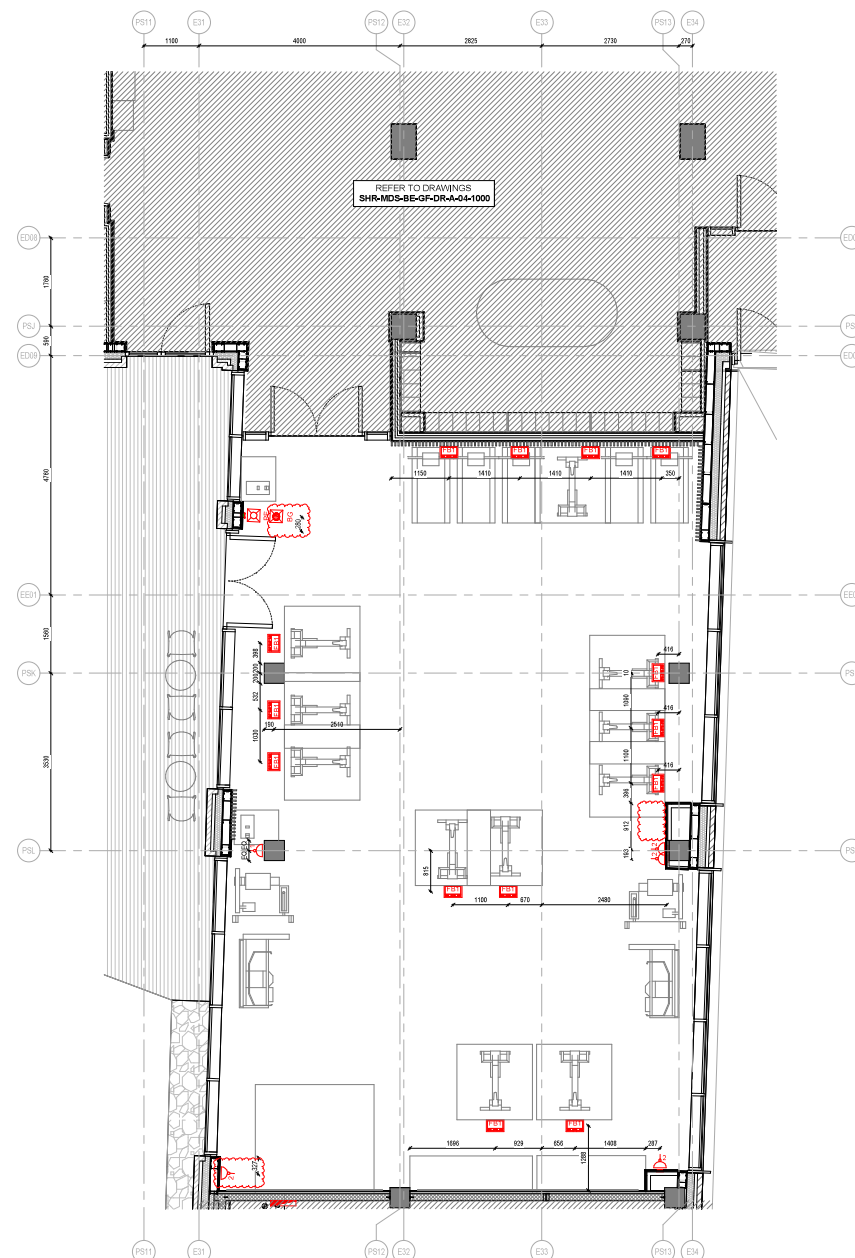
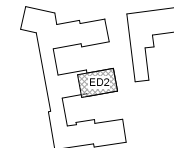
1:8

Format:

A4



DO NOT SCALE DIMENSIONS OF THIS DRAWING.  
CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATION.  
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#### KEY PRINCIPLES:

DIMENSIONS ARE SHOWN TO THE CENTER OF THE SERVICE CONTROL, UNLESS OTHERWISE NOTED.

SERVICE CONTROLS TO BE SPACED 10mm APART WHEN LOCATED NEXT TO EACH OTHER.

REGULARLY USED & EMERGENCY SERVICE CONTROLS TO BE LOCATED WITHIN A HEIGHT BAND OF:

- 450-1200mm FROM FFL & AT LEAST 350mm FROM ANY INTERNAL ROOM CORNER OR

- 700-1000mm FROM FFL & AT LEAST 700mm FROM ANY INTERNAL ROOM CORNER FOR UNITS THAT ARE NOTED AS SUCH

NOTE: FOR ELECTRICAL CIRCUIT INFORMATION PLEASE REFER TO MEP DRAWINGS

KITCHEN SPSO TO BE CONFIRMED BY SUBCONTRACTOR

NOTE: FOR FACADE INFORMATION PLEASE REFER TO FACADE DRAWINGS.

#### GENERAL NOTES:

WATER VALVES ARE NOT SHOWN ON THIS DRAWING.

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE HEATING, DOMESTIC WATER & SMALL POWER SERVICES DESIGN BY THE M&E CONSULTANTS.

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH MDS NO. 05 INTERNAL SETTING OUT PLANS SERIES.

FOR CEILING & WALL MOUNTED LIGHTS, FITTINGS & KITCHEN WORKTOP LIGHTS W&A REF. TO MDS NO. 07 REFLECTED CEILING PLANS SERIES.

SMALL POWER OF KITCHEN AREAS SHOULD BE READ IN CONJUNCTION WITH THE KITCHEN MANUFACTURER'S DRAWINGS TO ENSURE COORDINATION WITH THE LATEST DESIGN UPDATES.

FOR VERTICAL SETTING OUT & KEY REF. TO DRAWING NUMBER SHR-MDS-BE-GF-DR-A-04-1000

ALL MEP SERVICES TO M&E CONSULTANTS SPECIFICATION & DESIGN, ONLY THE SETTING OUT BY MDS.

Note: Equipment layout indicative only. Drawing to show Gym extent/size only.

|     |    |          |    |                                            |
|-----|----|----------|----|--------------------------------------------|
| C03 | GP | 20.02.23 | IM | ELECTRICAL FIXTURES UPDATED/LEGEND UPDATED |
| C02 | CO | 05.12.22 | RW | ELECTRICAL FIXTURES UPDATED                |
| C01 | SP | 07.10.22 | RW | FIRST ISSUE                                |

| REV    | BY | DATE | CHK | DESCRIPTION |
|--------|----|------|-----|-------------|
| STATUS |    |      |     |             |

FOR CONSTRUCTION

CONTRACTOR

MIDGARD LTD

PROJECT

Station Hill, Reading

CLIENT

SH Reading (phase 1) Limited

DRAWING TITLE

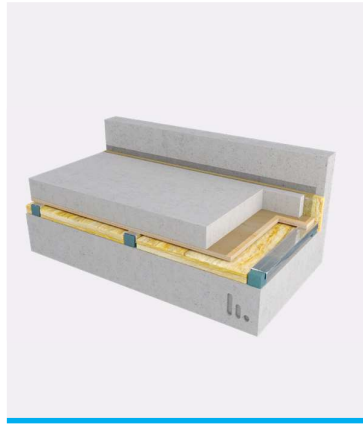
Block E  
Typical Unit Layouts & SPSO  
Level GF - Amenities 3/3

|              |              |            |
|--------------|--------------|------------|
| DATE CREATED | DATE AMENDED | SCALE      |
| 07.10.22     | 20.02.23     | 1 : 50 @A1 |

|          |            |         |
|----------|------------|---------|
| DRAWN BY | AMENDED BY | CHECKED |
| SP       | GP         | IM      |

DRAWING NO & REVISION  
SHR-MDS-BE-GF-DR-A-04-1002 - C03





## Stravifloor Channel\*

### Datasheet

Stravifloor Channel is an **isolated steel floor batten** system for the support of concrete or timber floating floors and sprung-floor applications.

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.

Stravifloor Channel is the ideal choice to maximize noise insulation when an existing structure cannot support a heavyweight floating concrete slab.



#### CHARACTERISTICS

- Stravifloor Channel is available with 4 standard grades of resilient pads: Pad-L (low stiffness), Pad-M (medium stiffness), Pad-H (high stiffness) and Pad-X (extra high stiffness)
- Standard resilient support thickness are 30 mm and 50 mm (other thicknesses are available upon request)
- Stravifloor Channel can support a variety of formwork such as plywood, Oriented Strand Board (OSB), metal decking or cement bonded particle board (CBPB)
- Stravifloor Channel steel components are electro-galvanised
- The standard range of resilient pads is available to provide load-bearing capacities from 0,1 to 3 MPa per pad
- Stravifloor Channel floor systems use elastomeric isolators with low stiffness/high resilience allowing natural frequencies as low as 6Hz
- The system is fast and easy installation, making it a very cost efficient solution
- This system allows building services to be installed within the air void
- Stravifloor Channel channels are light, strong, stable and robust
- Stravifloor Channel channels eliminate the risk of creaking or sagging of the floor, an effect that often occurs with girders made of natural materials such as wood as they get humid, dry up and expand/shrink
- CDM Stravitec pads used as discrete resilient support of Stravifloor Channel are durable and extremely low creep rate

\*Previously known as CDM-LAT



### Steel Channel 47 or 60

#### Material

Steel floor battens

#### Standard dimensions

Channel 47: 3 m X 47 mm

Channel 60: 2 m X 60 mm

### CDM Stravitec resilient pads

Four standard grades of pads are available: Pad-L (low stiffness), Pad-M (medium stiffness), Pad-H (high stiffness) and Pad-X (extra high stiffness).

Standard thickness: 30 or 50 mm

**Note:** the channel spacing as well as the spacing between the pads needs to be determined by the CDM Stravitec engineering team according the floating floor thickness and the load cases in operation phase. The selection of the type of elastomeric pad must be done by the CDM Stravitec engineering team according the load cases in operation phase as well as the type of application.

### Perimeter Strip

#### Standard dimensions

50/100/150/200 mm x 10 m

#### Standard thickness

10 mm

### Insulation material

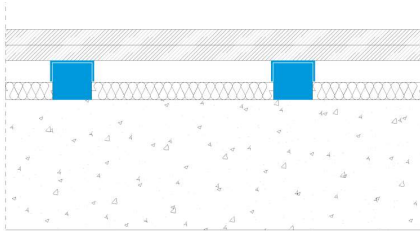
#### Dimensions

Defined according to project requirements

Test Report ÉMI Nonprofit Kft A-2575/2009<sup>(1)</sup> - Test Setup

## Isolated channels-L30 + OSB boards

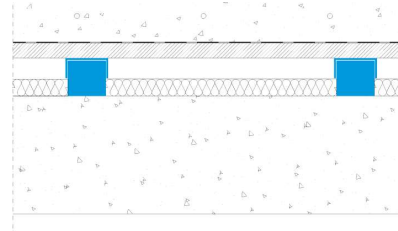
- Load distribution layers [= 2 layers OSB (18 mm) screwed to isolated channel]
- Isolated channels-L30
- 150 mm reinforced concrete slab
- Mineral wool
- Air void



| $L_{n,w}(C_i)$ | $\Delta L_{w,r}(C_i)$ |
|----------------|-----------------------|
| 49 (1) dB      | 25 (3) dB             |

## Isolated channels-M40 + 60 mm screed &amp; Isolated channels-M40 + 100 mm screed

- Floating floor [= 1 x OSB (18 mm) formwork + 60 or 100 mm reinforced screed]
- Isolated channels-M40
- 150 mm reinforced concrete slab
- Mineral wool
- Air void



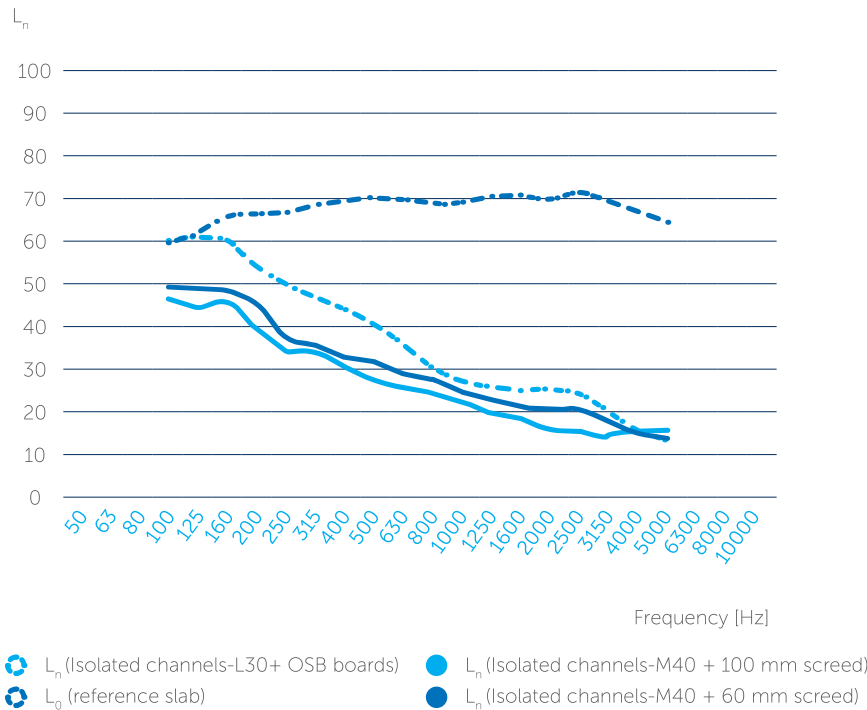
| $L_{n,w}(C_i)$ | $\Delta L_{w,r}(C_i)$ |
|----------------|-----------------------|
| 38 (1) dB      | 36 (2) dB             |

| $L_{n,w}(C_i)$ | $\Delta L_{w,r}(C_i)$ |
|----------------|-----------------------|
| 34 (2) dB      | 40 (3) dB             |

Test Setup: Isolated channels-M40 + 60 mm screed

Test Setup: Isolated channels-M40 + 100 mm screed

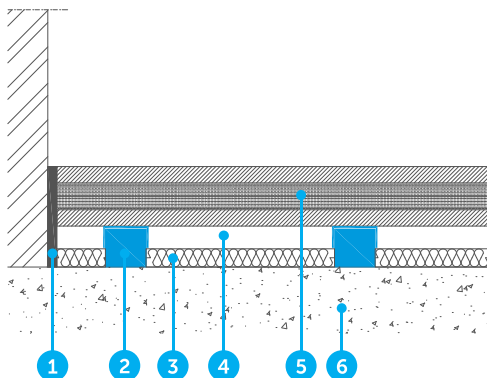
## Acoustical Isolation

<sup>(1)</sup>Test report available upon request



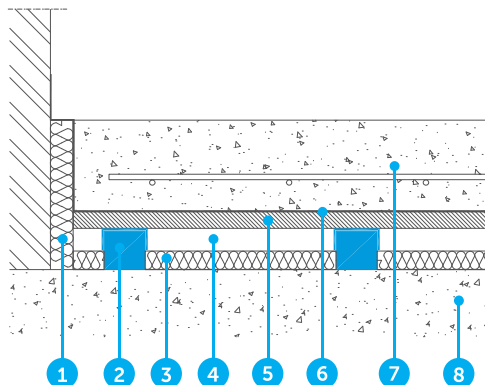
## TYPICAL ASSEMBLIES

Dry - Panelized Raft System



1. Perimeter Strip
2. Isolated channel
3. Insulation material
4. Air void
5. Load distribution layers
6. Structural slab

Wet - Concrete System



1. Perimeter Strip
2. Isolated channel
3. Insulation material
4. Air void
5. Lost formwork
6. Polyethylene foil
7. Reinforced concrete slab
8. Structural slab

**Note:** an installation manual is available upon request.



Other Stravifloor Channel assemblies  
available on our test data platform Stravi-dB.



## DISCLAIMER

This information is accurate to the best of our knowledge at the time of issue. Information, data and recommendations provided are based on industry accepted testing and prior product usage. It is intended as descriptive of the general capabilities and performance of our products and does not endorse applicability for any particular project. We reserve the right to change products, performance, and data without notice. This document replaces all information supplied prior to the publication hereof.



#### **7.17 Gym.**

It is understood that a gym will be provided at ground floor level. In order to provide sufficient sound insulation and adequate control of flanking transmission between the gym and adjacent residential apartments the following measures are required.

- A mass barrier ceiling comprising 3 layers of 15mm dense plasterboard on spring hangers with minimum 200mm cavity and 100mm mineral wool within the gym;
- A floating floor system as described in Section 7.17.1;
- All internal walls within the gym to be constructed off the floating floor;
- Any columns that pass through the gym shall be lined using an independent lining system (comprising multiple layers of dense board); and
- No MEP services should pass through the slab.

#### **7.17.1 Gym – floating floor system.**

In order to prevent impact noise associated with people using running machines from transmitting into the structure and impacting on adjacent spaces, a floating floor system is required within the gym. The lightweight jack-up floor system, as manufactured by CDM and shown in Figure 19 overleaf would be suitable.

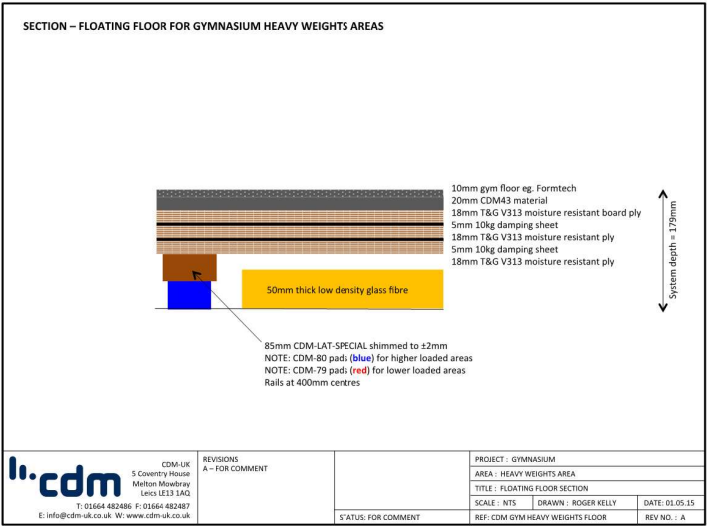


Figure 19: CDM lightweight floating floor system.



**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.

### Q&E Management

CDM Stravitec nv operates ISO 9001:2015 and ISO 14001:2015 approved quality & environment management systems.





## 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.



## WORLDWIDE 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, allowing us to propose always the best solution independently of the type of elastomer used. 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.

# 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 modern 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  $\geq 6$  Hz or springs achieving a natural frequency of  $\geq 2.5$  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;
- are compatible with thermal isolation and waterproofing systems;
- 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 Prefab                          | Stravifloor Channel                       | Stravifloor Deck                            | Stravifloor Mat   |
|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|-------------------------------------------|---------------------------------------------|-------------------|
| Main Benefit                                                  | Few Contact Points; Guaranteed Separation from Subfloor | Pre-manufactured; Discrete Solution         | Discrete Solution with Enhanced Stability | Low-profile Floating; Concrete Deck System  | Roll-out Solution |
| Natural Frequency ( $f_n$ )                                   | Elast. $\geq 6$ Hz<br>Springs $\geq 2.5$ Hz             | Elast. $\geq 6$ Hz<br>Springs $\geq 2.5$ Hz | $\geq 6$ Hz                               | Elast. $\geq 6$ Hz<br>Springs $\geq 2.5$ Hz | $\geq 15$ Hz      |
| $\Delta L_w$                                                  |                                                         |                                             | $\geq 35$ dB                              |                                             | 18-34 dB          |
| $R_w$                                                         |                                                         |                                             | $> 70$ dB                                 |                                             | $\leq 70$ dB      |
| Cinema & Theater                                              | ••                                                      | ••••                                        | •                                         | ••                                          | NR <sup>(2)</sup> |
| 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                                             | ••••                                                    | ••                                          | ••                                        | •                                           | •                 |
| Timber Construction (WFC <sup>(3)</sup> /CLT <sup>(4)</sup> ) | •                                                       | ••                                          | ••••                                      | ••••                                        | •                 |
| Fitness Floating Floor (concrete) <sup>(1)</sup>              | ••••                                                    | •                                           | ••                                        | ••                                          | •                 |

<sup>(1)</sup>For more information about lightweight fitness floating floors please refer to our brochure Fitness & Gym Isolated Floating Floors.

<sup>(2)</sup>NR: Not Recommended. <sup>(3)</sup>Wood frame construction. <sup>(4)</sup>Cross-laminated timber structures.



High  
Performance



Discrete  
System



Enhanced  
Stiffness



Suitable for  
Lightweight  
Systems

## Stravifloor Channel Channel System

Stravifloor Channel is an **isolated steel floor batten** system for the support of concrete or timber floating floors and sprung-floor applications.

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.

Stravifloor Channel is the ideal choice to maximize noise insulation when an existing structure cannot support a heavyweight floating concrete slab.

|                         |                               |              |
|-------------------------|-------------------------------|--------------|
| Natural Frequency       | Elastomeric Pads              | $\geq 6$ Hz  |
| Standard Product Height | Elastomeric Pads              | 30 mm, 50 mm |
| Minimum Build-up Height | Wet<br>(Concrete/Screed)      | 130 mm       |
|                         | Dry<br>(Timber/Cement Boards) | 70 mm        |
| Minimum Air Gap         |                               | 30 mm        |

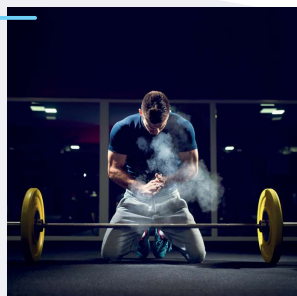


## Related Applications

### Fitness & Gym

Our high-performance floating floor range is our standard range of full-surface and discrete isolated floating floor systems; however, gym and fitness areas often have special requirements, that is why we have designed a bespoke range of Stravigym engineered lightweight floating floors.

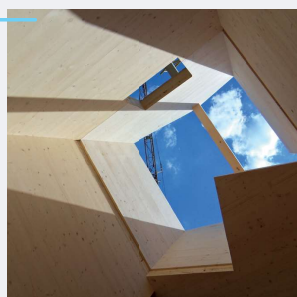
For more information about lightweight fitness floating floors please refer to our Stravigym brochure.



### Timber Construction

Wood construction is gaining popularity in various parts of the world for its sustainable, fast, lightweight, and inexpensive construction methodology. Historically, this construction method has offered poor acoustical performance due to the lack of mass and stiffness; particularly at lower frequencies where lightweight walls and ceilings transmit low frequency noise very efficiently and make it impossible to comply with local building regulations.

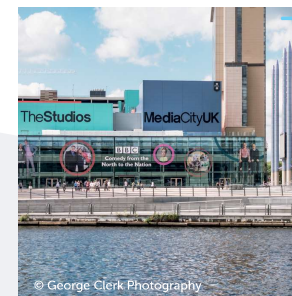
CDM Stravitec have participated in several projects to research and develop sustainable, cost-effective and environmentally responsible isolation solutions for wooden framed and cross-laminated timber structures.



## References

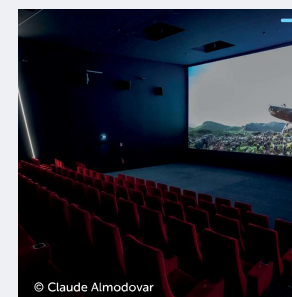
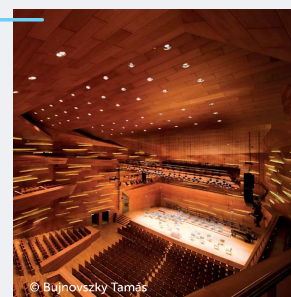
At CDM Stravitec, we take pride in the quality of work that we produce. Our extensive resume is comprised of over 10,000 projects completed since 1951. Our diverse project list includes commercial and residential buildings, manufacturing plants, medical facilities, schools, hotels, gyms, and more.

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.



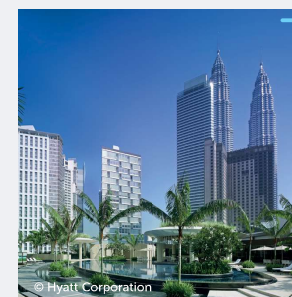
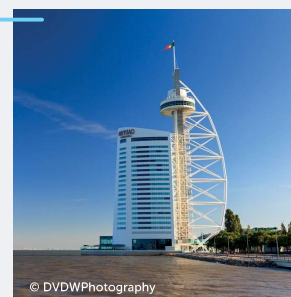
**MediaCityUK  
Studio Block**  
Salford  
(UK)

**Kodály  
Center**  
Pécs  
(HU)



**La Joliette  
EuropaCorp**  
Marseille  
(FR)

**MYRIAD  
by SANA  
Hotels**  
Lisbon  
(PT)



**Grand  
Hyatt Hotel**  
Kuala Lumpur  
(MY)



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.

**CDM Stravitec**

Reutenbeek 9-11  
3090 Overijse  
Belgium  
T +32 2 687 79 07  
[info@cdm-stravitec.com](mailto:info@cdm-stravitec.com)  
[www.cdm-stravitec.com](http://www.cdm-stravitec.com)



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