

# Stravifloor Deck<sup>\*</sup> Datasheet



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, 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.

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.



## CHARACTERISTICS

- Stravifloor Deck standard solutions are available with resilient pads in four standard grades: Pad-L (low stiffness), Pad-M (medium stiffness), Pad-H (high stiffness) and Pad-X (extra high stiffness)
- Stravifloor Deck can be changed to meet project specifications in terms of natural frequency and damping requirements,  $L_{n,w}$  or  $R_w$  using non-standard bearings
- The standard range of resilient pads is available to provide load-bearing capacities from 0.1 to 3 MPa per pad
- Stravifloor Deck floor system uses elastomeric isolators with low stiffness/high resilience allowing natural frequencies as low as 6Hz, or springs allowing natural frequencies as low as 2.5Hz\*\*
- Stravifloor Deck steel parts are galvanised
- Stravifloor Deck is a high performance floating floor system with large support spans (up to 1200 mm)
- The system allows high bending stiffness specifically for both restricted build-up height and limited extra weight applications (low permanent weight with floor system from only 86 mm total thickness: 36 mm resilient support + 50 mm steel reinforcement sheet with concrete or screed floor)
- The system is compatible with high permissible loads
- Stravifloor Deck is extremely quick to install resulting in a cost effective solution
- Stravifloor Deck allows services to be installed within the air void
- Easy to incorporate underfloor heating or cooling systems
- Isolation pads, used as discrete resilient support of the system, are mold and water resistant
- Stravifloor Deck is using moisture resistant formwork, free of autochthonous parasites or other harmful organisms and lightweight, being easy to handle

\* Previously known as CDM-QuietDECK

\*\* Standard springs are epoxy coated, suitable for C2 environments. Springs with special coating or special spring materials are available upon request for installation in outside conditions or other special environments.



### Dovetailed sheeting

#### Details

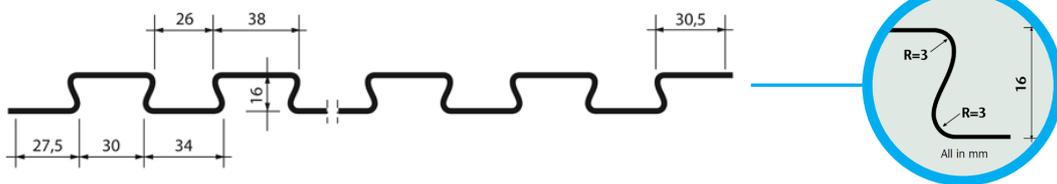
Profiled sheet in steel S320GD + Z100 N-A-C finishing, according to NEN-EN10147 (Z275 can be supplied upon request).

#### Note

Cold rolled steel sheet must be covered with a relatively thin layer (min. 'fine grade' concrete thickness: 16 mm profile height + 34 mm = 50 mm of (min.) C20/25 fine grade aggregate concrete or CA25F4 free flowing, selflevelling, liquid screed).

The steel mesh necessary to cope with the loads in the finished floor needs to be calculated for the load cases in operation phase (service phase). This needs to be done by a structural engineer (upon request, CDM Stravitec can provide recommendations).

Steel thickness	0.5 mm
Nominal width	630 mm
Effective width	580 mm
Standard length	2200 mm <sup>(1)</sup>
Effective length	2100
Dimensional tolerances	Length: 1-4 mm ; width: 1-3 mm
Moment of Inertia	$I_x = 3.6 \text{ cm}^4/\text{m}$
Moment of resistance	$W_x = 3.0 \text{ cm}^3/\text{m}$



### Isolated channel

#### Steel channel standard length

2 m

**Note:** the type of elastomeric pad used as discrete support and the channel spacing - which can be between 400 to 1200 mm - need to be determined by the CDM Stravitec engineering team according the (concrete or screed) floating floor thickness and the load cases in operation phase.

## Perimeter Strip

### Standard dimensions

50/100/150/200 mm x 10 m

### Standard thickness

10 mm

## Insulation material

### Dimensions

Defined according to project requirements

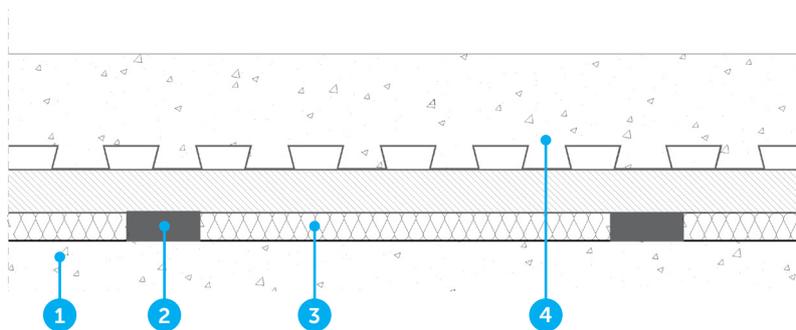
<sup>(1)</sup>Other lengths available upon request



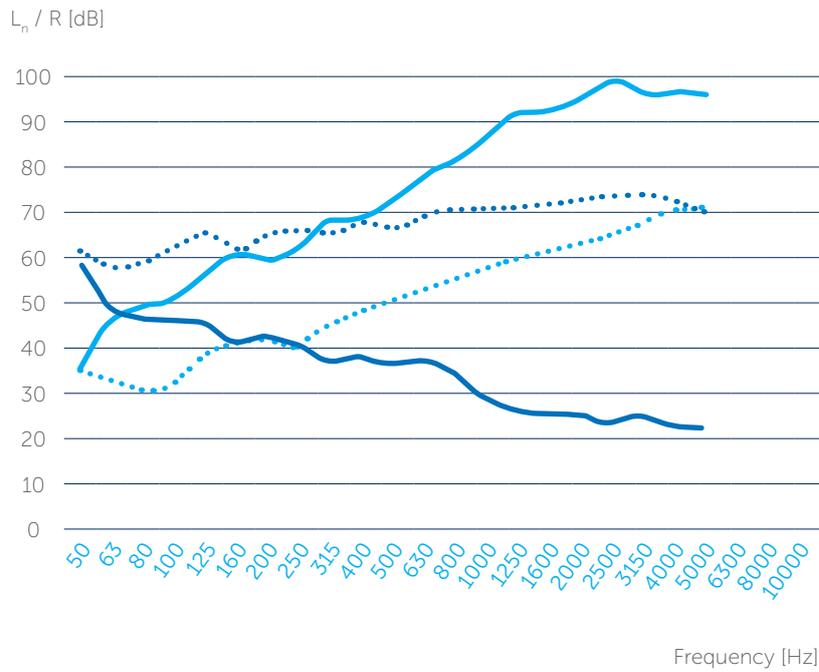
## ACOUSTICAL RESULTS

### Test report LA.170209.R02 by Level Acoustics&Vibration<sup>(2)</sup> - Test Setup

1. Structural floor: 140 mm reinforced concrete slab
2. Isolated channel-L50
3. Mineral wool 40 mm
4. Floating floor: deck + 50 mm (16+34 mm) concrete



## Acoustical Isolation



	$R_w (C, C_{tr})^{(3)}$	$\Delta R_w^{(3)}$	$L_{n,T,w} (C_i)^{(4)}$	$\Delta L_w (C_i)^{(4)}$
<ul style="list-style-type: none"> <li><span style="color: blue;">•••••</span> <math>R_0</math> (bare slab)</li> <li><span style="color: blue;">•••••</span> <math>L_{n,0}</math> (bare slab)</li> <li><span style="color: blue;">●</span> <math>R</math></li> <li><span style="color: blue;">●</span> <math>L_n</math></li> </ul>	79 (-2,-8) dB	25 dB	37 (-1) dB	39 (-1) dB

<sup>(3)</sup>  $R_w$  is measured generally in accordance with ISO 10140-2 with additional vibration analyses (see report 170209.R02). Single figure ratings are determined in accordance with EN-ISO 717-1

<sup>(4)</sup>  $L_{n,w}$  is measured in accordance with ISO 10140-3 - Rating in accordance with EN-ISO 717-2

<sup>(4)</sup> Test report available upon request



**stravi-dB**  
by CDM Stravitec

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

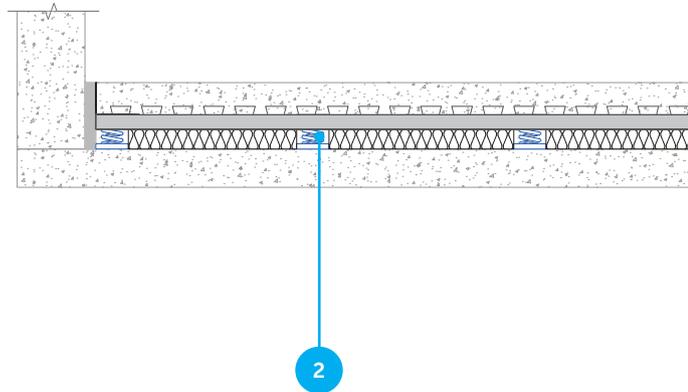
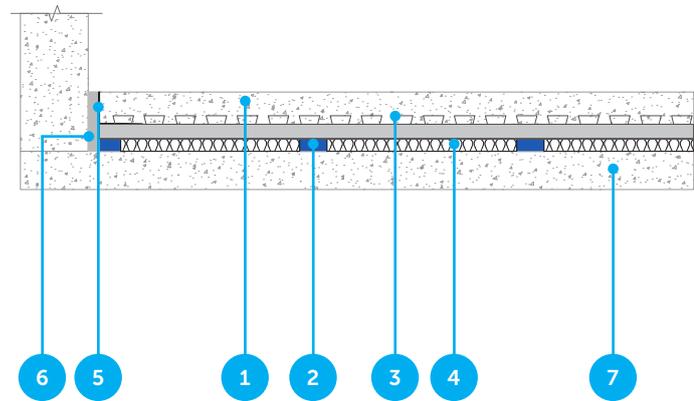


**SCAN ME**



## TYPICAL ASSEMBLY

1. Concrete/Screed floating floor
2. Isolated channel (pads OR springs)
3. Dovetailed sheeting
4. Insulation material
5. Metal edge profile
6. Perimeter Strip
7. Reinforced concrete slab



Type III Environmental Product  
Declaration No. 866/2025  
EPD Program Operator: Instytut  
Techniki Budowlanej (ITB)  
Validity date: 08.12.2030

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

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