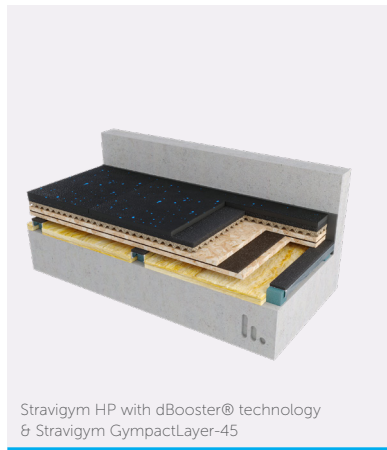


# Stravigym HP<sup>\*</sup>

## Datasheet



Stravigym HP is a "High Performance" discrete isolator floating floor system that is performance engineered to control vibrations, minimize low-frequency impact noise and reduce the transmission of audible structure-borne sound.

When configured with Stravigym GympactLayer-45<sup>\*\*</sup>, it offers high mechanical resistance and acoustical performance and is suitable for residential and light commercial gyms (impact energy < 600 N.m).

Stravigym HP with Stravigym GympactLayer-20<sup>\*\*\*</sup> is suitable for areas with medium impact energy and low frequency and is compatible with most conventional floor coverings.

### CHARACTERISTICS

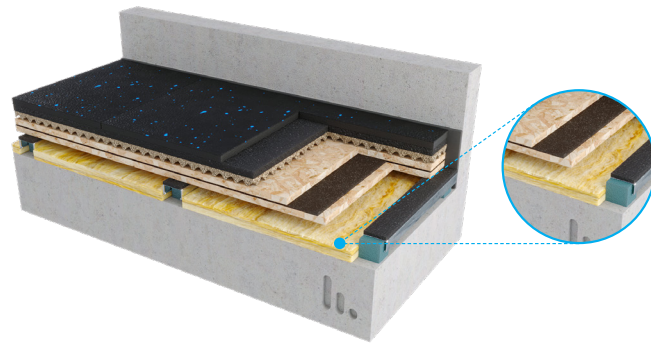
- Standard isolated channel system height is 50 mm
- Standard dBooster® channel system height is 60 mm
- Stravigym system is available with isolated channel or dBooster® channel
- A variety of load distribution components can be used, such as plywood or OSB board
- Isolated channel and dBooster® channel steel components are electro-galvanized
- Isolated channel and dBooster® channel are available in two standard grades:  
Channel-M (medium stiffness) and Channel-H (high stiffness)
- Two impact absorption layers are available: Stravigym GympactLayer-20 & Stravigym GympactLayer-45  
(the selection is made depending on the type of gym activities)
- Floor covering is not included in standard Stravigym solutions but a Stravigym GympactFloor products are available upon request
- Stravigym systems are compatible with almost all types of gym floor covering (please check with CDM Stravitec & floor manufacturer prior to installation)
- Stravigym HP is a lightweight floating floor with reduced/minimal overall thickness (low additional height and weight)
- Stravigym HP is quick and easy to install
- If required, Stravigym HP can easily be dismantled and reinstalled

<sup>\*</sup>Previously known as CDM-GYM-HP  
<sup>\*\*</sup> Previously known as GYMPACT45  
<sup>\*\*\*</sup>Previously known as GYMPACT20



### The Next Generation: dBooster Technology

Our patented dBooster® technology decouples the load distribution layer from the resilient supports with minimal contact area. Tests show that isolation efficiency improves for all discrete Stravigym floor systems and that it makes the gym floor less dependent on the impact energy level applied to the system.



## ACOUSTICAL RESULTS

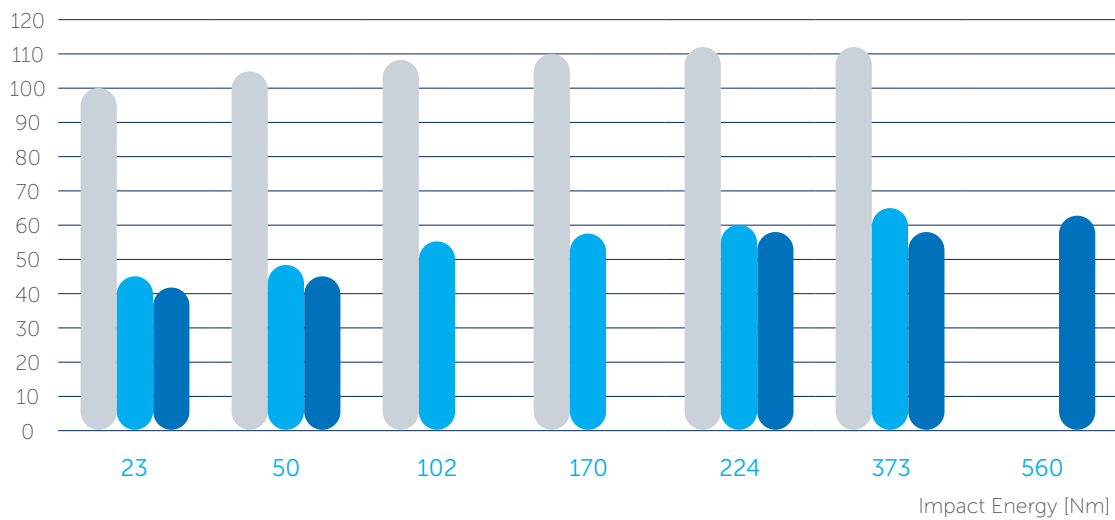
### Drop-Weight Tests

#### Test Report Riverbank AN18-001\* and AN19-002\* - Test Setups

- 9.5 mm rubber sports floor
- Stravigym GympactLayer-20 or Stravigym GympactLayer-45
- Plywood 19 mm
- Damping Layer (1 layer)
- Plywood 19 mm
- dBooster® channel
- 16 mm mineral wool
- Concrete slab 200 mm

### Overall Noise Level

$L_{A,F,MAX}$  [dBA ref 20µPa]



- Bare Slab
- Stravigym HP with dBooster® and Stravigym GympactLayer-20
- Stravigym HP with dBooster® and Stravigym GympactLayer-45

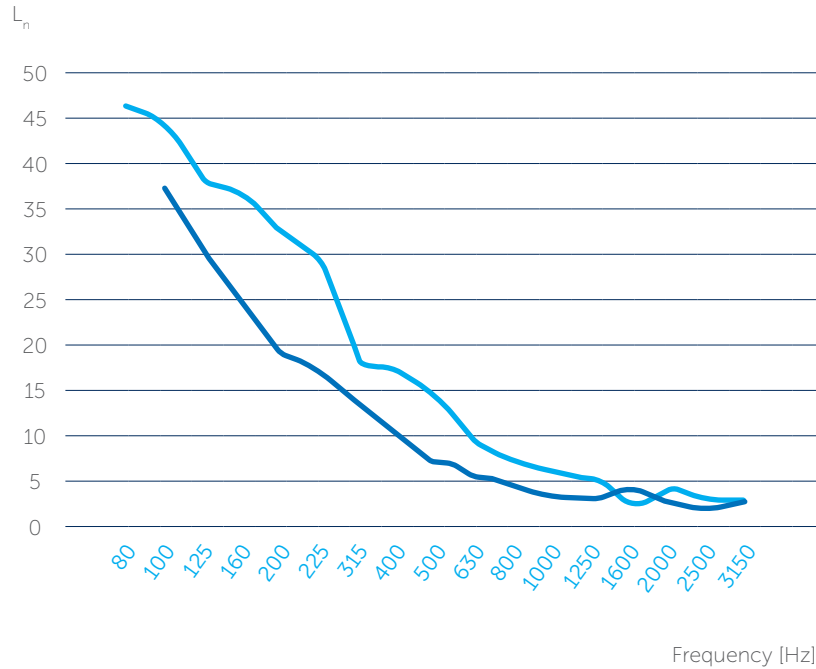
\*Test report available upon request

# Standard Test Method for Laboratory Measurement of Impact Sound Transmission

## Test Report Riverbank IN18-007\* and IN19-032\* - Test Setups

Note: the test setups are the same as used for the drop-weight test.

### Acoustical Isolation



- $L_{n,w}$  (with GympactLayer-20)
- $L_{n,w}$  (with GympactLayer-45)

$L_{n,w}^{(1)}$ with GympactLayer-20	$L_{n,w}^{(1)}$ with GympactLayer-45
29 (3) dB	20 (3) dB

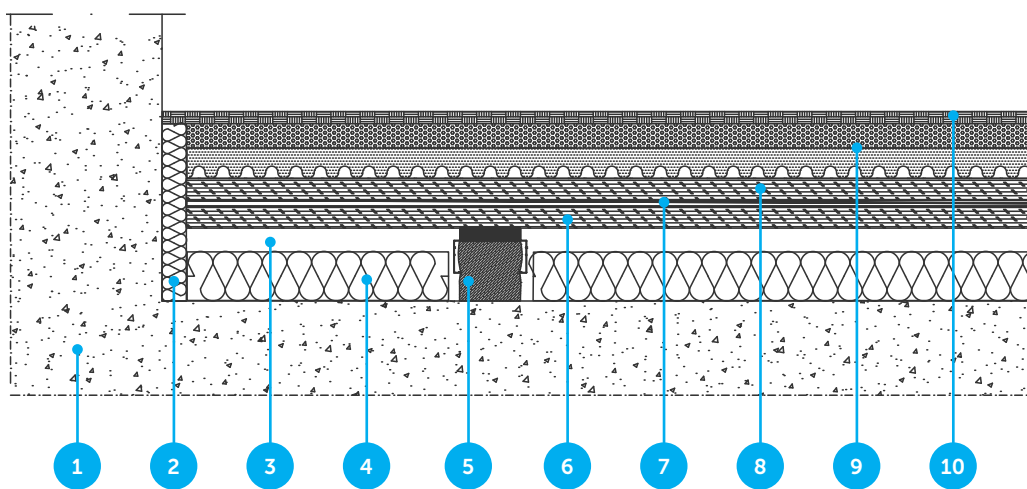
<sup>(1)</sup>Calculated according to ISO 717-2, based on ASTM measurement.  
\*Test report available upon request



## TYPICAL ASSEMBLIES

### Stravigym HP

1. Structural slab
2. Perimeter Strip
3. Air void
4. Insulation material
5. Isolated channel or dBooster® channel
6. Plywood load distribution layer 1 (or other suitable load distribution layer)
7. Damping Layer
8. Plywood load distribution layer 2 (or other suitable load distribution layer)
9. GympactLayer\*\*
10. Floor covering ( a StravigymFloor solution or by others)



**Note:** additional information about installation is available upon request. .

\*\*All Stravigym standard systems can be combined with different Stravigym GympactLayer. The right selection of Stravigym GympactLayer allows choosing the best solution for the different gym activities.

## 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.