

Stravigym HP with dBooster® technology & Stravigym GympactLayer-20



Stravigym HP with dBooster® technology & Stravigym GympactLayer-45

stravigym by CDM Stravitec

Stravigym HP*

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**, it offers high mechanical resistance and acoustical performance and is suitable for residential and light commercial gyms (impact energy < 445 lbf-ft (600 N.m)).

Stravigym HP with Stravigym GympactLayer-20*** 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 2" (50 mm)
- Standard dBooster® channel system height is 2.4" (60 mm)
- Stravigym HP 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 options with reduced/minimal overall thickness (low additional height and weight)
- Stravigym HP is quick and easy to install
- If required, Stravigym HP floor system can easily be dismantled and reinstalled

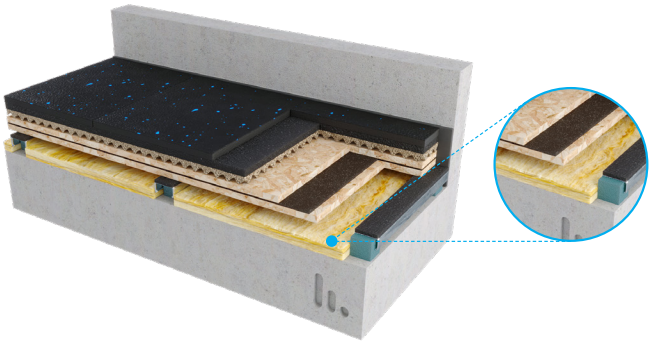
*Previously known as CDM-GYM-HP
**Previously known as GYMPACT45
***Previously known as GYMPACT20

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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.



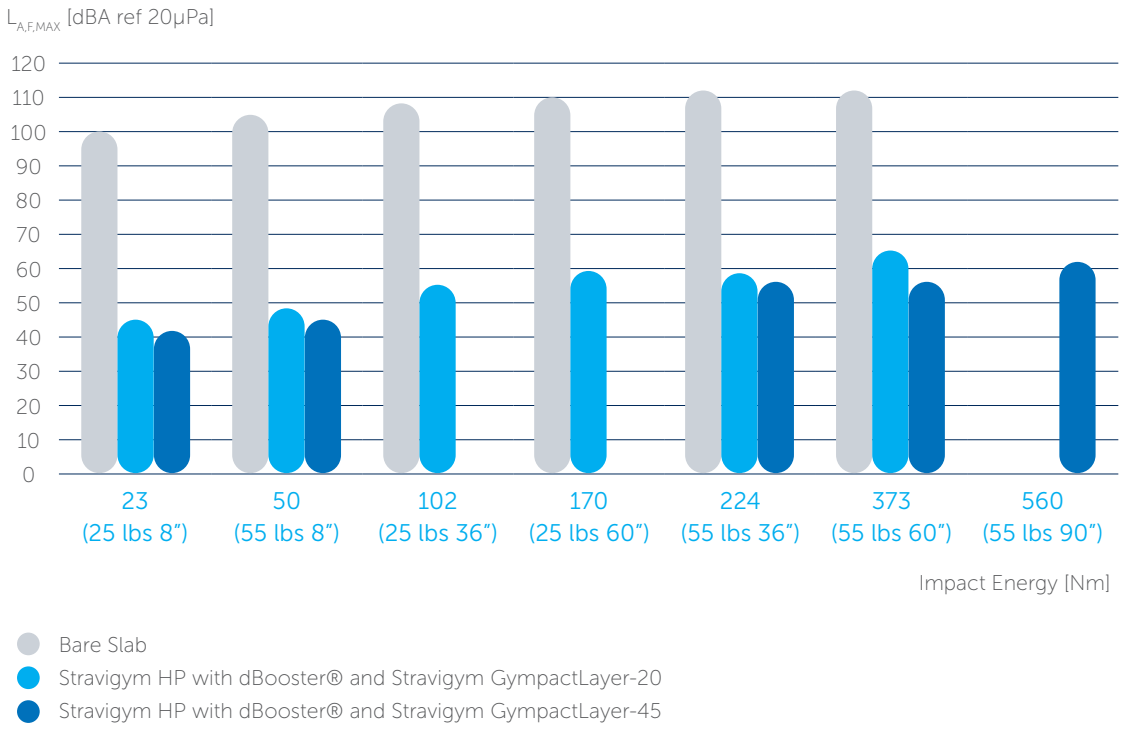
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Drop-Weight Tests

Test Report Riverbank AN18-002* and AN19-002* - Test Setups

- 9.5 mm (3/8") rubber sports floor
- Stravigym GympactLayer-20 or Stravigym GympactLayer-45
- Plywood 19 mm (3/4")
- Damping Layer (1 layer)
- Plywood 19 mm (3/4")
- dBooster® channel
- 16 mm (5/8") mineral wool
- Concrete slab 200 mm (8")

Overall Noise Level



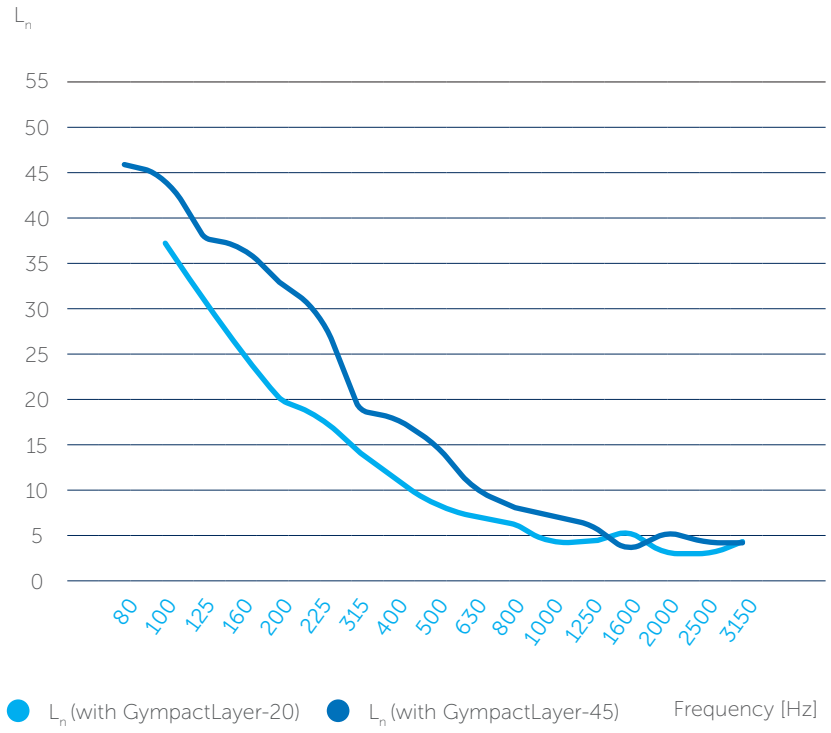
*Test report available upon request

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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



with GympactLayer-20			with GympactLayer-45		
IIC	HIIC	LIIC	IIC	HIIC	LIIC
ASTM E989-21	ASTM E3222-20a	ASTM E3207-21	ASTM E989-21	ASTM E3222-20a	ASTM E3207-21
75	96	82	83	97	87

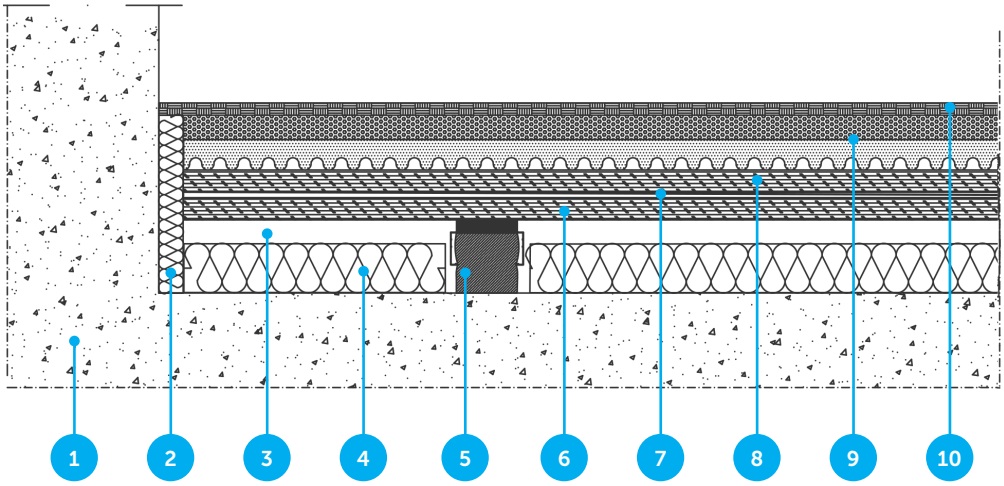
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TYPICAL ASSEMBLY

Stravigym HP

1. Structural slab
2. Perimeter Strip or air void
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.

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