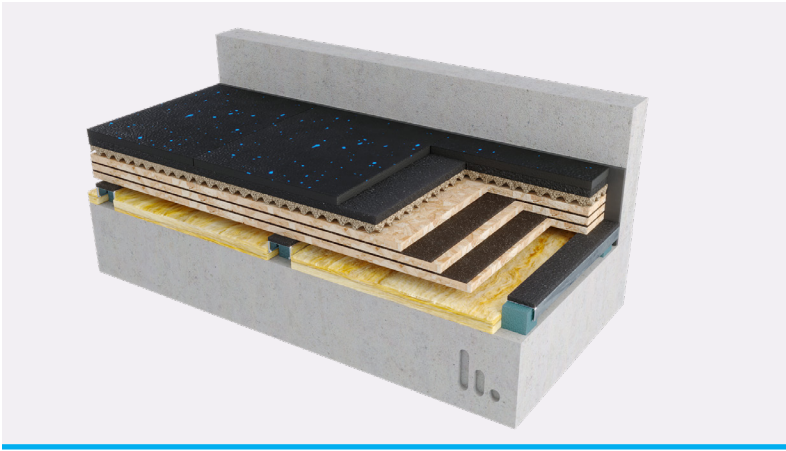


# Stravigym XP\*

## Datasheet



Stravigym XP with Stravigym GympacLayer-45\*\* is designed as an "Extreme Performance" discrete isolator floating floor system specifically intended for use in free-weight areas. The system offers superior structural resistance and acoustical performance and can withstand and absorb the energy from very high impacts.

Stravigym XP is engineered to reduce noise, dampen vibration and minimize bounce thereby reducing the risk of injuries and it is suitable for commercial gyms. It is suitable for applications that experience impact energies up to 740 lbf-ft (1000 N.m) when combined with Stravigym GympactLayer-45, up to 445 lbf-ft (600 N.m) when combined with Stravigym GympactLayer-20 and up to 295 lbf-ft (400 N.m) if no impact layer is considered.



### CHARACTERISTICS

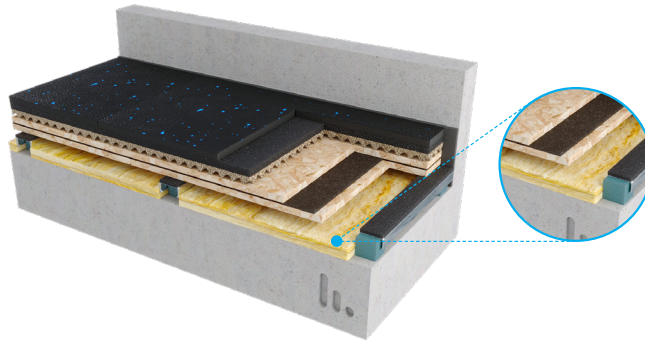
- Standard dBooster® channel system height is 2-3/8" (60 mm)
- A variety of load distribution components can be used, such as plywood or OSB board
- dBooster® channel steel components are electro-galvanized
- dBooster® channel is available in two standard grades:
  - Channel-M (medium stiffness) and Channel-H (high stiffness)
- Two types of impact absorption layers are available: continuous mats (Stravigym GympacLayer-20\*\*\* & Stravigym GympacLayer-45) and tiles (Stravigym GympactTile\*\*\*\* (-30, -50 and -70)) (the selection is made depending on the type of gym activities)
- Floor covering is not included in standard Stravigym floor systems but 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 XP is a lightweight floating floor options with reduced/minimal overall thickness (low additional height and weight)
- Stravigym XP is quick and easy to install
- If required, Stravigym XP can easily be dismantled and reinstalled

\*Previously known as CDM-GYM-XP  
\*\*Previously known as GYMPACT45  
\*\*\*Previously known as GYMPACT20  
\*\*\*\*Previously known as GYMPACT-Tile



### 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.



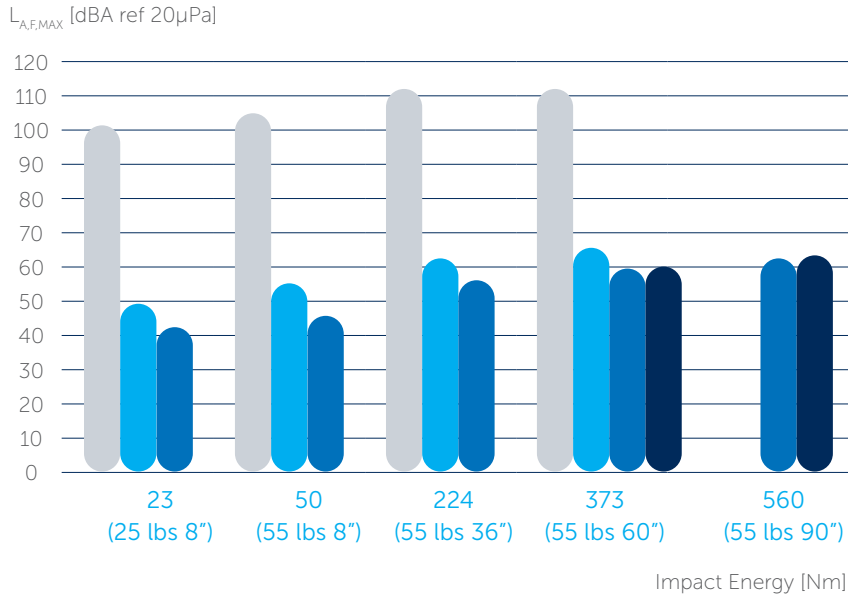
## ACOUSTICAL RESULTS

### Drop-Weight Tests

#### Test Report Riverbank AN17-006\*, AN19-003\* & AN19-004\* - Test Setups

- 9.5 mm (3/8") Stravigym GympactFloor-R
- Stravigym GympactLayer-20 or Stravigym GympactLayer-45
- Plywood 19 mm (3/4")
- Damping Layer (first layer)
- Plywood 19 mm (3/4")
- Damping Layer (second layer)
- Plywood 19 mm (3/4")
- dBooster® channel
- 38 mm (1 1/2") mineral wool
- Concrete slab 200 mm (8")

## Overall Noise Level



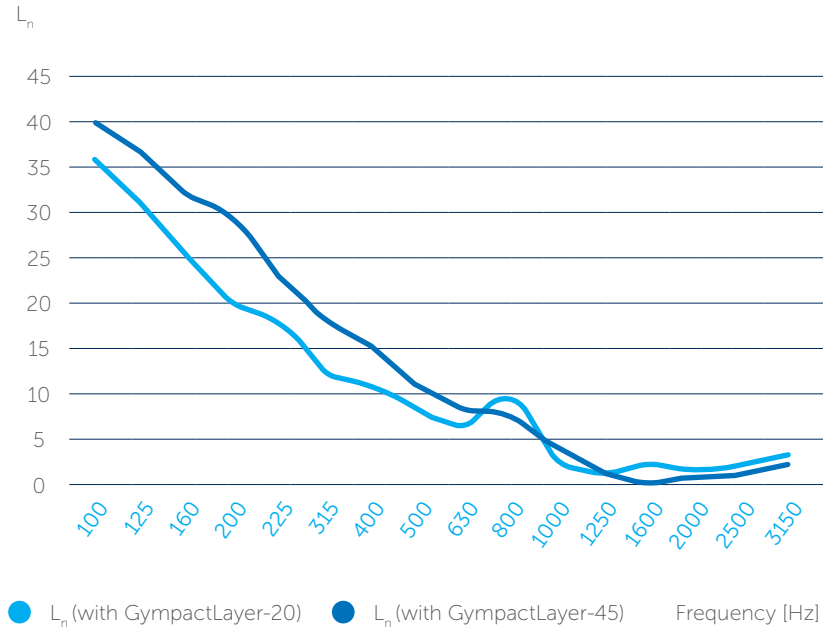
- Bare Slab (20 mm)
- Stravigym XP with dBooster® and Stravigym GympactLayer-20
- Stravigym XP with dBooster® and Stravigym GympactLayer-45
- Stravigym XP with dBooster® and Stravigym GympactTile-50

\*Test report available upon request

## Test Report Riverbank IN17-35\* and IN19-033\* - 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
80	99	68	84	99	82

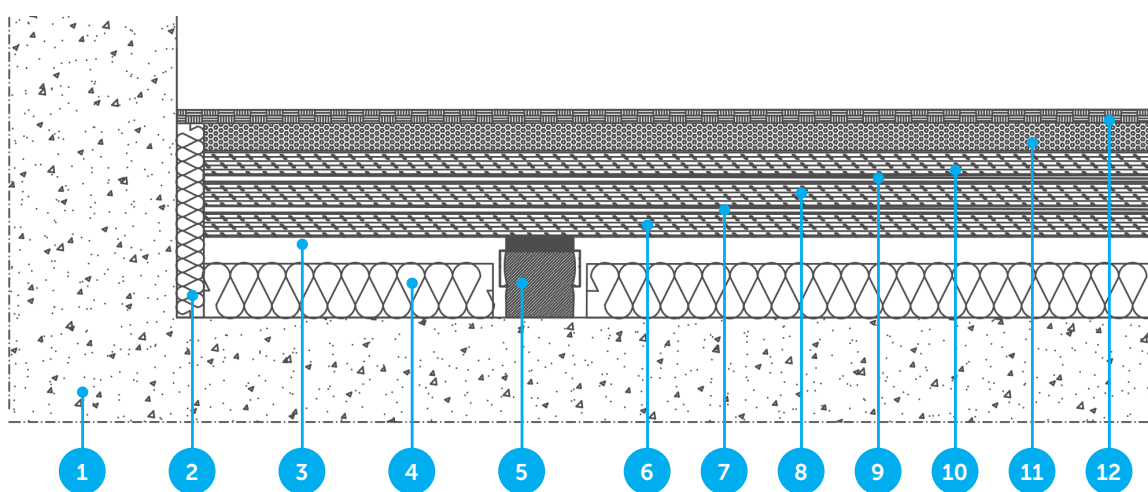
\*Test report available upon request



## TYPICAL ASSEMBLY

### Stravigym XP

1. Structural slab
2. Perimeter Strip or air void
3. Air void
4. Insulation material
5. dBooster® channel
6. Plywood load distribution layer 1 (or other suitable load distribution layer)
7. Damping Layer 1
8. Plywood load distribution layer 2 (or other suitable load distribution layer)
9. Dampin Layer 2
10. Plywood load distribution layer 3 (or other suitable load distribution layer)
11. GympactLayer\*\*
12. Floor covering

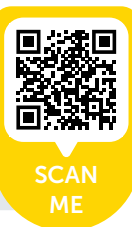


**Note:** additional information about installation is available upon request.

\*\*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.



Other Stravigym XP assemblies available on our test data platform Stravi-dB.



## DISCLAIMER

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