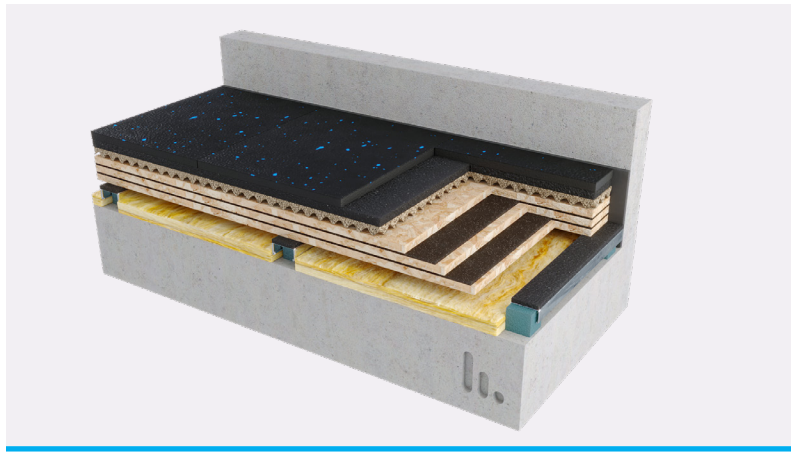




Stravigym XP*

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

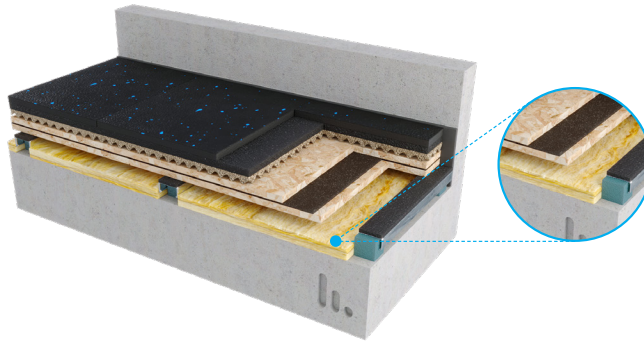
***Previously known as GYMPACT20

****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.



**Test Setup 1**

- 20 mm (3/4") Stravigym GympactLayer-20
- Load distribution layer: 3 layers of plywood 19 mm (3/4") with 2 layers of 5 mm (1/4") Damping Layer
- Isolated dBooster® channel using Pad-M50 and 10 mm (25/64") dBooster® strips, spaced at 610 mm (24") o.c.
- 38 mm (1-1/2") mineral fiber insulation batts
- 150 mm (6") concrete slab

Test Setup 2

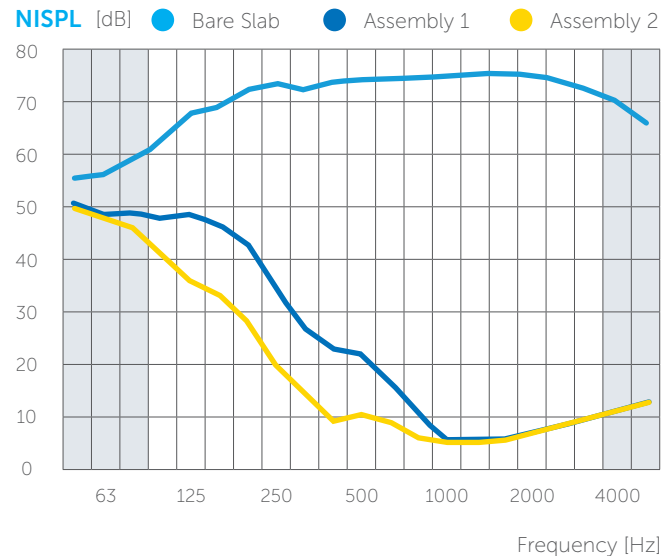
- 45 mm (1-3/4") Stravigym GympactLayer-45
- Load distribution layer: 3 layers of plywood 19 mm (3/4") with 2 layers of 5 mm (1/4") Damping Layer
- Isolated dBooster® channel using Pad-M50 and 10 mm (25/64") dBooster® strips, spaced at 610 mm (24") o.c.
- 38 mm (1-1/2") mineral fiber insulation batts
- 150 mm (6") concrete slab

Setup	IIC	HIIC	LIIC	STC
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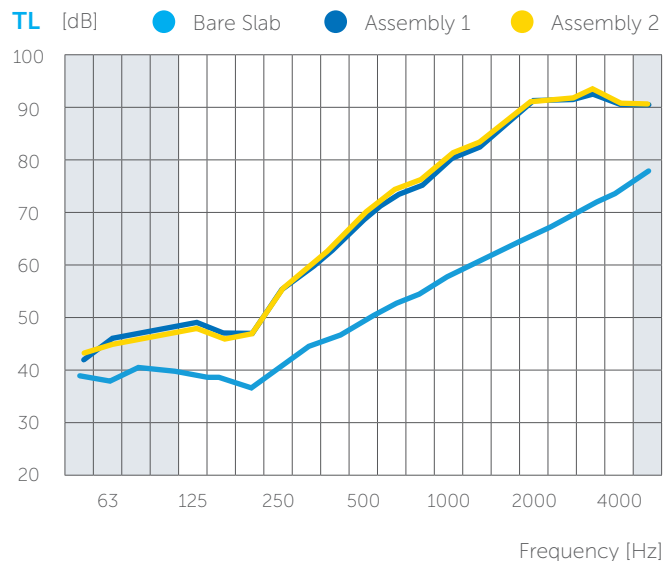
Assembly 1	72	91	82	65
Assembly 2	80	93	84	65
Bare Slab	29	28	66	53

Laboratory report available upon request
 Setup 1: NRC Test Report A1-021983-16
 Setup 2: NRC Test Report A1-021983-17

Frequency [Hz]	NISPL [dB]		
	Bare Slab	Assembly 1	Assembly 2
50	55	50	49
63	56	48	48
80	59	48	45
100	62	47	40
125	67	48	35
160	68	46	33
200	71	42	28
250	72	34	19
315	71	26	15
400	73	23	9
500	73	22	10
630	73	16	9
800	73	10	6
1000	74	5	5
1250	74	5	5
1600	74	5	6
2000	74	7	7
2500	73	8	8
3150	71	10	10
4000	69	11	11
5000	65	13	13



Frequency [Hz]	Airborne TL [dB]		
	Bare Slab	Assembly 1	Assembly 2
50	39	42	43
63	39	46	45
80	41	47	46
100	40	48	47
125	39	49	48
160	39	47	46
200	37	47	47
250	41	55	55
315	45	59	60
400	47	64	64
500	50	69	70
630	53	73	74
800	55	75	76
1000	58	80	81
1250	61	82	83
1600	63	87	87
2000	66	91	91
2500	68	91	91
3150	72	92	93
4000	74	90	90
5000	78	90	90



Drop-Weight Tests

Test Setup 1

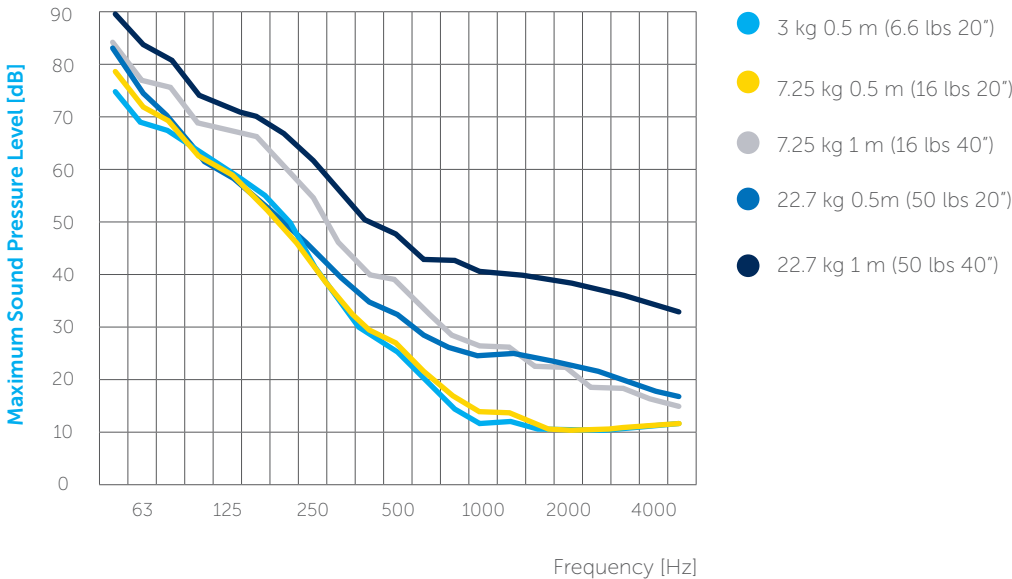
- 1. 20 mm (3/4") Stravigym GympactLayer-20
- 2. Load distribution layer: 3 layers of plywood 19 mm (3/4") with 2 layers of 5 mm (1/4") Damping Layer
- 3. Isolated dBooster® channel using Pad-M50 and 10 mm (25/64") dBooster® strips, spaced at 610 mm (24") o.c.
- 4. 38 mm (1-1/2") mineral fiber insulation batts
- 5. 150 mm (6") concrete slab

L_{IAF,max} [dBA]

	3 kg 0.5 m (6.6 lbs 20")	7.25 kg 0.5 m (16 lbs 20")	7.25 kg 1 m (16 lbs 40")	22.7 kg 0.5m (50 lbs 20")	22.7 kg 1 m (50 lbs 40")
Assembly 1	52	55	62	58	67
Assembly 2	43	47	53	49	61

Laboratory report available upon request
Setup 1: NRC Test Report A1-021983-16
Setup 2: NRC Test Report A1-021983-17

Frequency [Hz]	L _{IAF,max} [dBA]				
	3 kg 0.5 m (6.6 lbs 20")	7.25 kg 0.5 m (16 lbs 20")	7.25 kg 1 m (16 lbs 40")	22.7 kg 0.5m (50 lbs 20")	22.7 kg 1 m (50 lbs 40")
50	75	78	83	83	90
63	68	71	77	74	83
80	67	69	75	69	80
100	62	62	68	62	74
125	59	59	67	59	71
160	56	54	66	55	70
200	51	49	60	49	66
250	43	42	55	45	62
315	34	35	45	39	56
400	29	30	40	35	50
500	26	27	38	33	48
630	20	21	33	28	43
800	15	17	28	26	43
1000	12	14	26	24	41
1250	12	13	26	25	40
1600	11	11	23	24	39
2000	10	11	22	23	38
2500	10	11	19	22	37
3150	11	11	18	20	36
4000	11	11	16	18	35
5000	12	12	15	17	33



Drop-Weight Tests

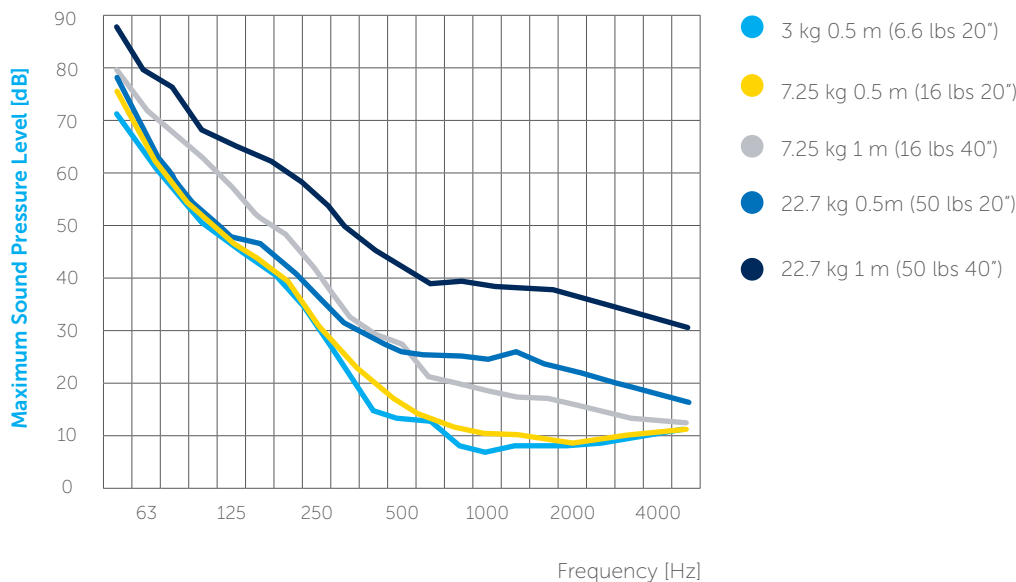
Test Setup 2

- 1. 45 mm (1-3/4") Stravigym GympactLayer-45
- 2. Load distribution layer: 3 layers of plywood 19 mm (3/4") with 2 layers of 5 mm (1/4") Damping Layer
- 3. Isolated dBooster® channel using Pad-M50 and 10 mm (25/64") dBooster® strips, spaced at 610 mm (24") o.c.
- 4. 38 mm (1-1/2") mineral fiber insulation batts
- 5. 150 mm (6") concrete slab

	L _{iAF,max} [dBA]				
	3 kg 0.5 m (6.6 lbs 20")	7.25 kg 0.5 m (16 lbs 20")	7.25 kg 1 m (16 lbs 40")	22.7 kg 0.5m (50 lbs 20")	22.7 kg 1 m (50 lbs 40")
Assembly 1	52	53	60	56	66
Assembly 2	43	47	53	49	61

Laboratory report available upon request
Setup 1: NRC Test Report A1-021983-16
Setup 2: NRC Test Report A1-021983-17

Frequency [Hz]	L _{iAF,max} [dBA]				
	3 kg 0.5 m (6.6 lbs 20")	7.25 kg 0.5 m (16 lbs 20")	7.25 kg 1 m (16 lbs 40")	22.7 kg 0.5m (50 lbs 20")	22.7 kg 1 m (50 lbs 40")
50	71	75	79	78	87
63	64	66	72	67	79
80	57	58	67	58	76
100	51	52	63	52	68
125	47	47	58	48	65
160	42	44	52	47	63
200	39	39	48	42	60
250	31	32	42	37	56
315	23	26	34	31	50
400	15	21	30	29	45
500	14	17	28	27	43
630	14	14	22	26	39
800	9	12	21	25	39
1000	8	11	19	25	39
1250	9	11	18	26	38
1600	8	10	18	24	38
2000	9	10	17	23	37
2500	10	10	15	22	36
3150	11	11	14	20	34
4000	11	11	13	19	32
5000	12	12	13	17	31

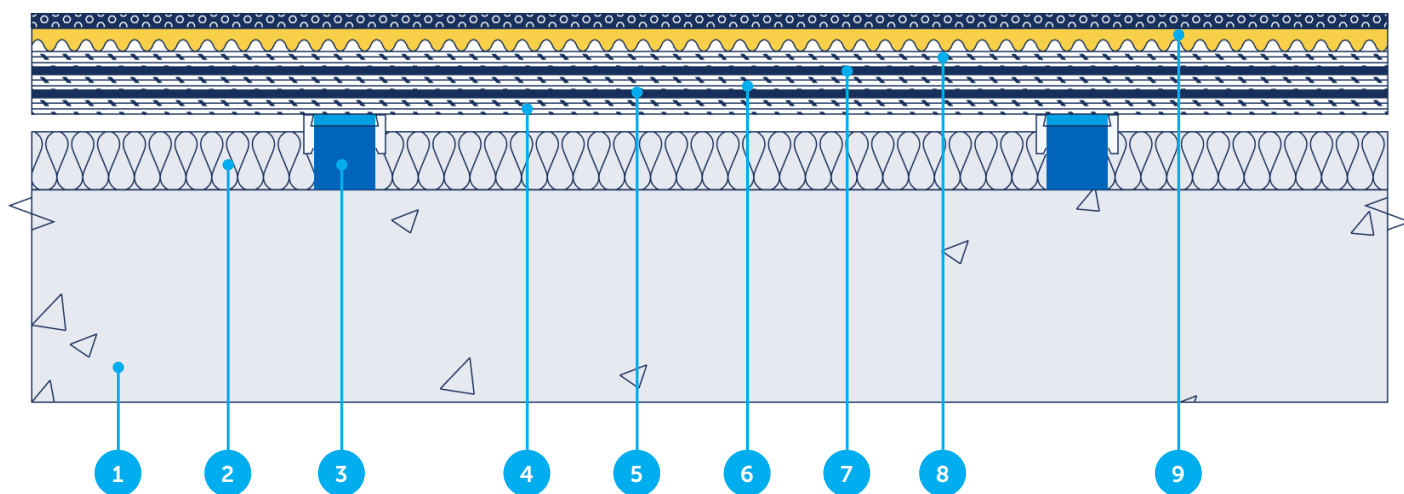




TYPICAL ASSEMBLY

Stravigym XP

1. Structural slab
2. Insulation material
3. dBooster® channel
4. Plywood load distribution layer 1 (or other suitable load distribution layer)
5. Damping Layer 1
6. Plywood load distribution layer 2 (or other suitable load distribution layer)
7. Damping Layer 2
8. Plywood load distribution layer 3 (or other suitable load distribution layer)
9. GympactLayer-45



Notes:

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.



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DISCLAIMER

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