

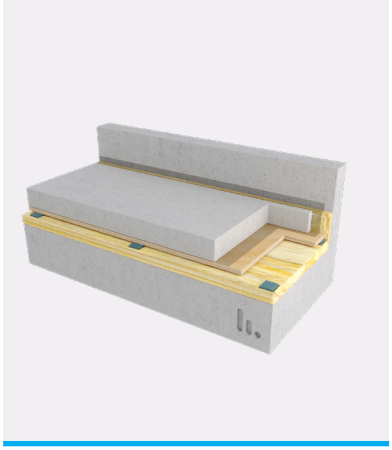

Stravifloor Mount
Datasheet

Stravifloor Mount is a discrete pad floating floor system and is designed for fast and easy installation.

CDM Stravitec elastomeric bearings ensure a high-performance floating floor, providing exceptional structure-borne and airborne noise isolation.

The system can be installed with normal-weight concrete, lightweight concrete, or panelized floor systems using plywood or cement board.

CHARACTERISTICS

- Fast and easy installation
- Typical pad spacing of 300 mm (12"), 400 mm (16"), 610 mm (24") o.c.
- Suitable for wet/concrete systems as well as for dry/panelized systems
- Standard thickness of 50 mm (2") and 30 mm (1-3/16")
- Load-bearing capacities from 0.1 MPa (14.5 psi) to 3 MPa (440 psi) per pad
- Available with natural rubber pads as standard resilient support
- Outstanding Kstat to Kdyn ratio provides low resonant frequency at minimal deflection
- Stravifloor Mount floor system uses elastomeric isolators with low stiffness/high resilience allowing natural frequencies as low as 6 Hz
- CDM Stravitec pads offer extremely low and constant resonant frequency over a wide load range
- Durable and extremely low creep rate
- Isolation pads are mold and water resistant
- Offer unparalleled flexibility in design, layout, acoustic and load bearing capacity
- Customizable to meet height restrictions, achieve higher performance levels or bear higher loads
- Air cavity can be adjusted using overheights for isolators for improved airborne sound insulation

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SYSTEM COMPONENTS & DIMENSIONS

Stravifloor Mount

Components CDM Isolation pads, pre-cut batt insulation & Perimeter Strip	**Typical Pad Spacing** 30 cm (12”), 40 cm (16”), 60 cm (24”) o.c.
Dimension 122 cm (4’) x 244 cm (8’) sheets; rolls	**Thickness** 50 mm (2”) and 30 mm (1-3/16”)[1]

[1]Other thicknesses available upon request.

Pads Color Code

Natural Rubber

Pad-M (black pad marked with the company logo in blue)
Pad-H (black pad marked with the company logo in yellow)
Pad-X (black pad marked with the company logo in green)

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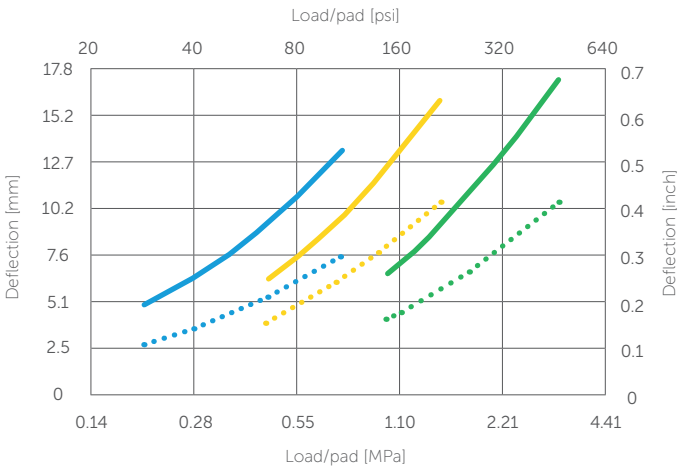
PHYSICAL & MECHANICAL PROPERTIES OF NATURAL RUBBER PADS

Type	Degree of stiffness	Color*	Shore hardness ASTM D2240	Tensile strength ISO 37	Elongation at break ISO 37	Compression set 50%/ 23°C (73°F)/70h ISO 815
Pad-M	Medium	Blue	40 A	2 MPa (290 psi)	> 300%	< 15%
Pad-H	High	Yellow	55 A	5.2 MPa (754 psi)	> 400%	< 15%
Pad-X	Extra High	Green	73 A	6 MPa (870 psi)	> 200%	< 15%

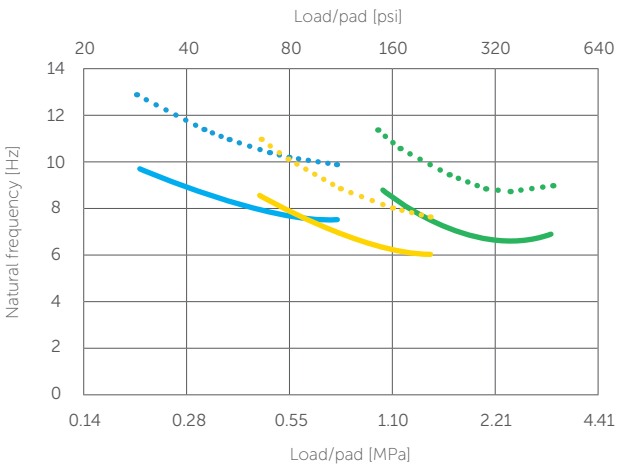
Note: working temperature between -10°C (14°F) and 100°C (212°F) (momentary higher temperatures are acceptable).

* Black pad marked with the company logo in the mentioned color.

Deflection vs Load



Natural Frequency vs Load



- Pad-M50 [50 mm (2")]
- Pad-H50 [50 mm (2")]
- Pad-X50 [50 mm (2")]
- Pad-M30 [30 mm (1-3/16")]
- Pad-H30 [30 mm (1-3/16")]
- Pad-X30 [30 mm (1-3/16")]

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ACOUSTICAL RESULTS

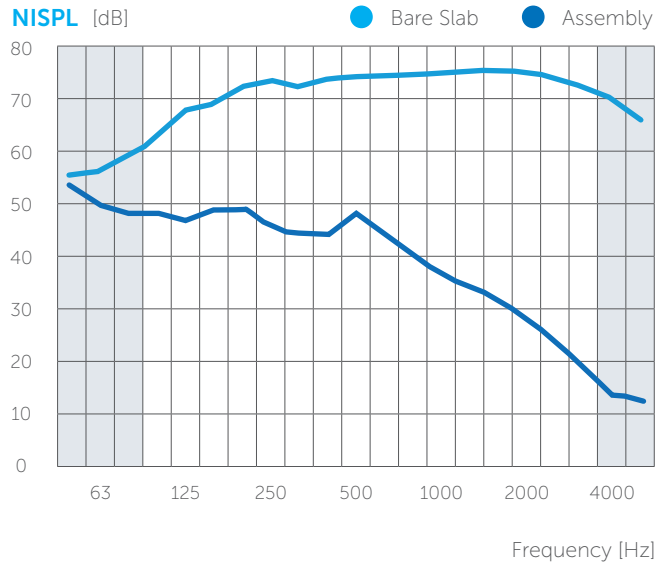
Test Setup

1. 100 mm (4") reinforced concrete floating floor
2. PE foil
3. 12 mm (1/2") plywood
4. 30 mm (1-3/16") natural rubber pads. Spaced 610 mm (24") on centers
5. 19 mm (3/4") mineral fiberglass batts
6. 150 mm (6") reinforced concrete slab

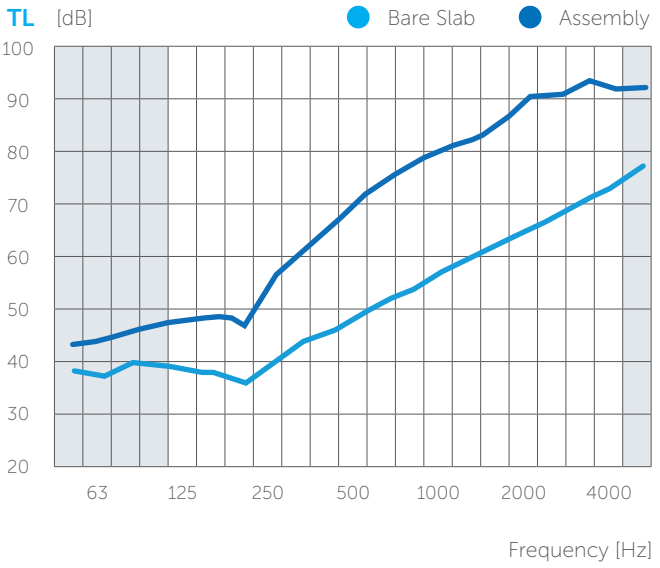
Setup	IIC	HIIC	LIIC	STC
Assembly	68	70	79	66
Bare Slab	29	28	66	53

Laboratory report available upon request
NRC Test Report A1-021983-08

Frequency [Hz]	NISPL [dB]	
	Bare Slab	Assembly
50	55	53
63	56	49
80	59	47
100	62	48
125	67	47
160	68	48
200	71	48
250	72	45
315	71	44
400	73	44
500	73	47
630	73	43
800	73	40
1000	74	36
1250	74	34
1600	74	32
2000	74	28
2500	73	24
3150	71	19
4000	69	14
5000	65	13



Frequency [Hz]	Airborne TL [dB]	
	Bare Slab	Assembly
50	39	44
63	39	45
80	41	46
100	40	48
125	39	49
160	39	50
200	37	48
250	41	57
315	45	61
400	47	66
500	50	71
630	53	75
800	55	78
1000	58	81
1250	61	82
1600	63	86
2000	66	91
2500	68	91
3150	72	94
4000	74	92
5000	78	93



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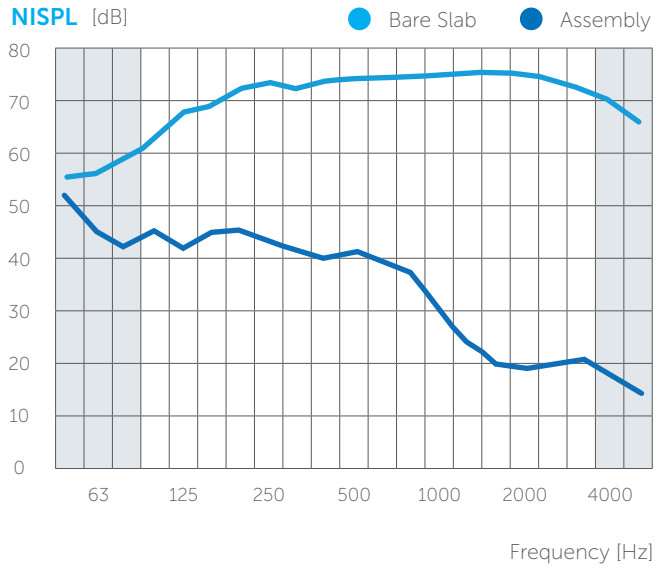
Test Setup

1. 100 mm (4") reinforced concrete floating floor
2. PE foil
3. 19 mm (3/4") plywood
4. 50 mm (2") natural rubber pads.
   Spaced 610 mm (24") on centers
5. 38 mm (1-1/2") mineral fiberglass batts
6. 150 mm (6") reinforced concrete slab

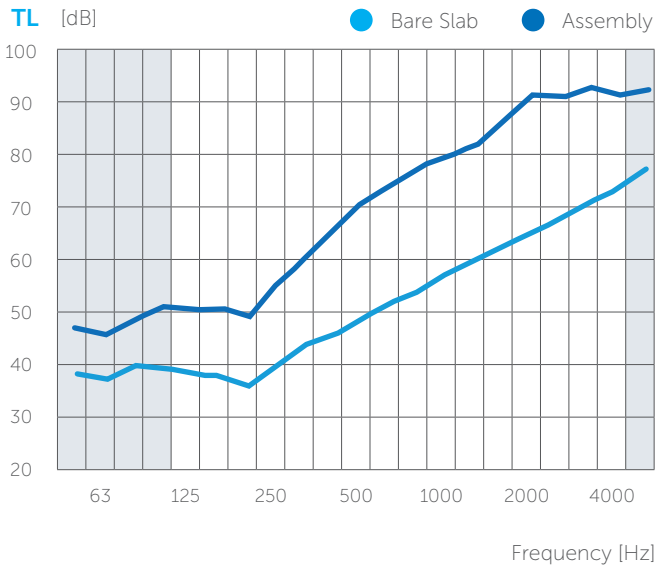
Setup	IIC	HIIC	LIIC	STC
Assembly	73	75	85	67
Bare Slab	29	28	66	53

Laboratory report available upon request
NRC Test Report A1-021983-06

Frequency [Hz]	NISPL [dB]	
	Bare Slab	Assembly
50	55	51
63	56	44
80	59	41
100	62	45
125	67	41
160	68	44
200	71	44
250	72	42
315	71	41
400	73	39
500	73	40
630	73	39
800	73	36
1000	74	29
1250	74	23
1600	74	19
2000	74	19
2500	73	19
3150	71	20
4000	69	17
5000	65	14



Frequency [Hz]	Airborne TL [dB]	
	Bare Slab	Assembly
50	39	48
63	39	46
80	41	49
100	40	51
125	39	51
160	39	51
200	37	49
250	41	56
315	45	61
400	47	66
500	50	71
630	53	74
800	55	78
1000	58	80
1250	61	82
1600	63	87
2000	66	92
2500	68	91
3150	72	93
4000	74	92
5000	78	93



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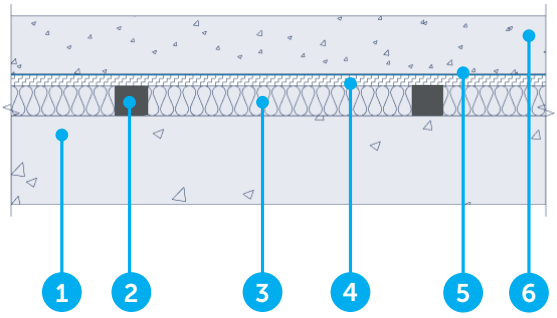
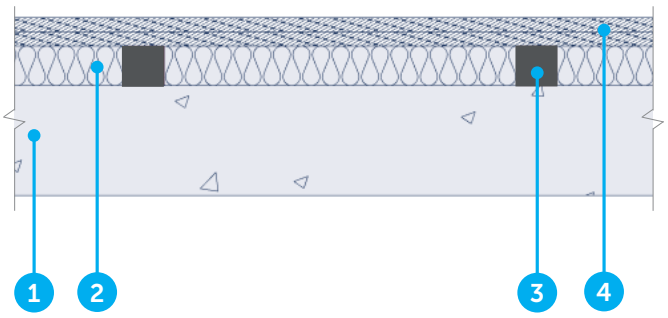
TYPICAL ASSEMBLIES

Concrete Floating Floor



1. Structural slab
2. CDM Stravitec rubber pads
3. Insulation material
4. Lost formwork
5. PE-film (poly sheeting)
6. Floating concrete slab

Panelized Floating Floor



1. Structural slab
2. Insulation material
3. CDM Stravitec rubber pads
4. Load distribution layer (e.g.: plywood raft)

Note: an installation manual is available upon request.

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

SCAN ME

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