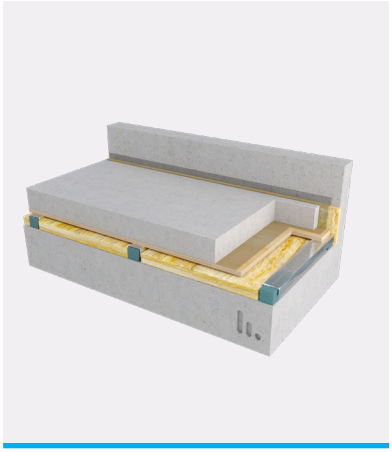




Stravifloor Channel*

Datasheet

Stravifloor Channel is an isolated steel batten system for the support of lightweight, panelized floating floors applications, using strong, galvanized steel channels over the isolation pads.

Stravifloor Channel improves the structural stability of the floating floor and provides lower differential deflection resulting from live load or concentrated loads. It also allows for larger isolation pad spacing, which reduces material and installation costs, and increases acoustical performance through optimization of pad loading and fewer contact points (transmission paths) to the subfloor.

CHARACTERISTICS

- Available with natural rubber pads as standard resilient support
- Standard system heights are 30 mm (1-3/16") and 50 mm (2") (other thicknesses are available upon request)
- Stravifloor Channel can support a variety of formwork such as plywood, Oriented Strand Board (OSB), metal decking or cement bonded particle board (CBPB)
- The standard range of resilient pads is available to provide load-bearing capacities from 0.1 MPa (14.5 psi) to 3 MPa (440 psi) per pad
- Stravifloor Channel floor system uses elastomeric isolators with low stiffness/high resilience allowing natural frequencies as low as 6 Hz
- Fast and easy installation, making it a very cost efficient solution
- Stravifloor Channel channels are light and have a high bending strength Stravifloor Channel channels reduce the risk of creaking or sagging of the floor, an effect that often occurs with girders made of natural materials such as wood, as they get humid, dry up and expand/shrink
- Durable and extremely low creep rate
- Outstanding performance over building lifespan

*Previously known as CDM-LAT

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SYSTEM COMPONENTS & DIMENSIONS

Isolated channels

Material
Steel floor battens

Standard Length
2 m (6’ 6-3/4”)

CDM-Stravitec Pads

Four standard grades of pads are available: Pad-L (low stiffness), Pad-M (medium stiffness), Pad-H (high stiffness) and Pad-X (extra high stiffness).
Check the physical and mechanical properties section for more information.

Standard thickness: 30 mm (1-3/16”) or 50 mm (2”)

Pads - Color Range

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)

Perimeter Strip

Resilient strips specially designed to minimize the flanking transmissions

Insulation material

Fiberglass or rock wool insulation

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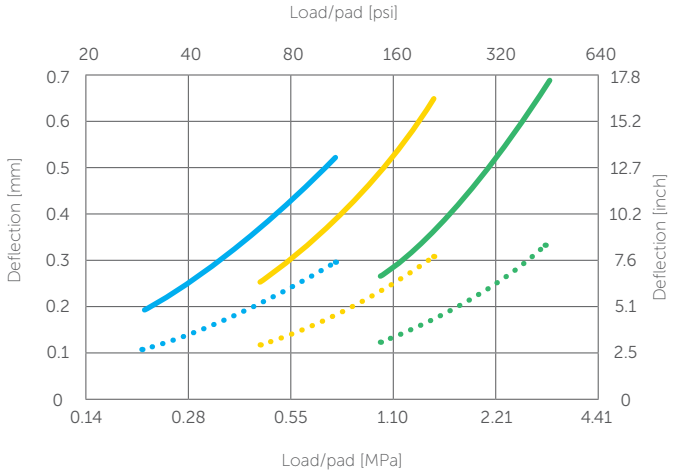
PHYSICAL & MECHANICAL PROPERTIES OF NATURAL RUBBER PADS (HR)

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%

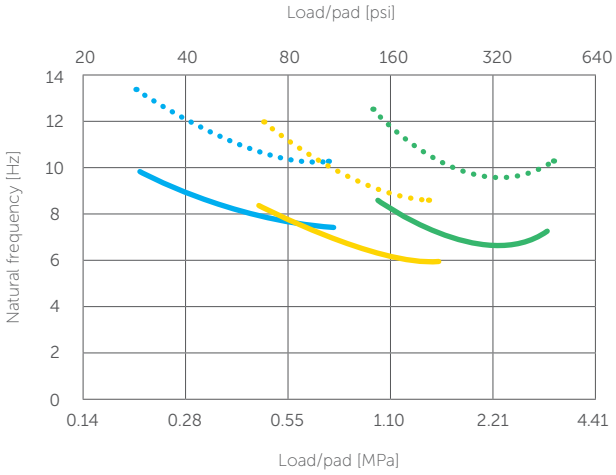
Note: working temperature between -10°C (14°F) and 100°C (212°F) (momentary higher temperatures are acceptable).

* 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

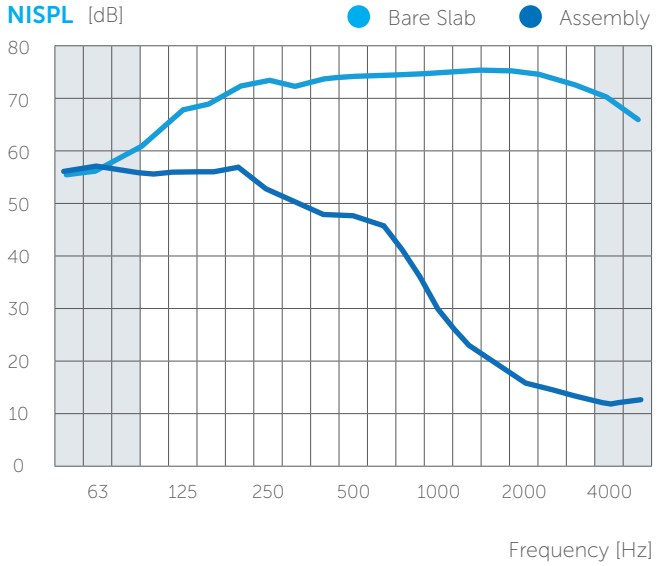
Test Setup

1. 2x 19 mm (3/4") plywood
2. Isolated channel with 50 mm (2") natural rubber pads, spaced at 610 mm (24")
3. 38 mm (1-1/2") mineral fiberglass insulation batts
4. 150 mm (6") reinforced concrete slab

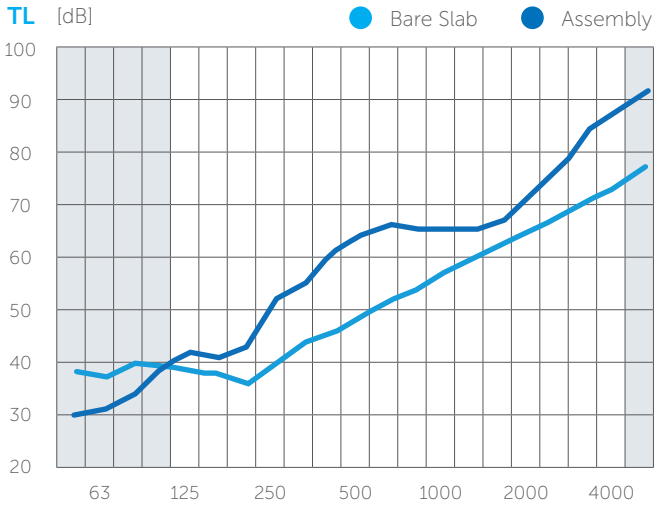
Setup	IIC	HIIC	LIIC	STC
Assembly	63	70	68	62
Bare Slab	29	28	66	53

Laboratory report available upon request
NRC Test Report A1-021983-13

Frequency [Hz]	NISPL [dB]	
	Bare Slab	Assembly
50	55	55
63	56	56
80	59	56
100	62	55
125	67	55
160	68	55
200	71	56
250	72	52
315	71	49
400	73	47
500	73	47
630	73	45
800	73	38
1000	74	29
1250	74	23
1600	74	19
2000	74	15
2500	73	14
3150	71	12
4000	69	11
5000	65	12



Frequency [Hz]	Airborne TL [dB]	
	Bare Slab	Assembly
50	39	31
63	39	32
80	41	35
100	40	40
125	39	43
160	39	42
200	37	44
250	41	53
315	45	56
400	47	62
500	50	65
630	53	67
800	55	66
1000	58	66
1250	61	66
1600	63	68
2000	66	73
2500	68	78
3150	72	85
4000	74	89
5000	78	92



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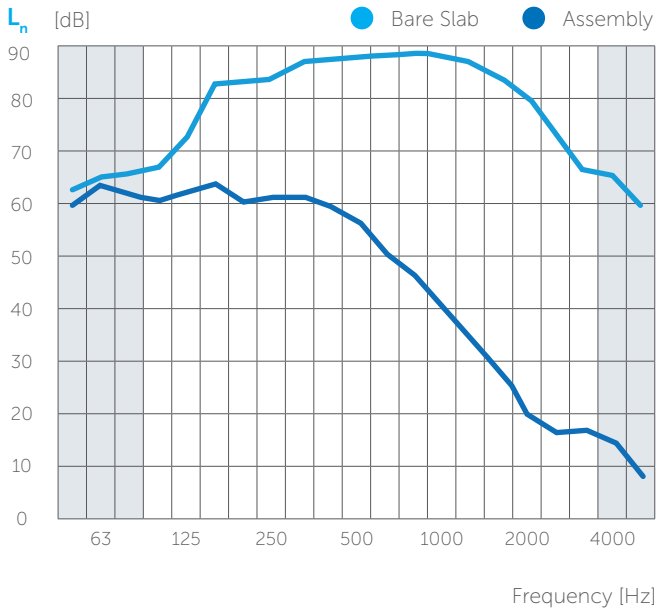
Test Setup

1. 2x 19 mm (3/4") plywood
2. Isolated channel with 50 mm (2") natural rubber pads, spaced at 406 mm (16")
3. 40 mm (1-1/2") mineral fiberglass insulation batts
4. 180 mm (7-1/16") CLT 5-ply

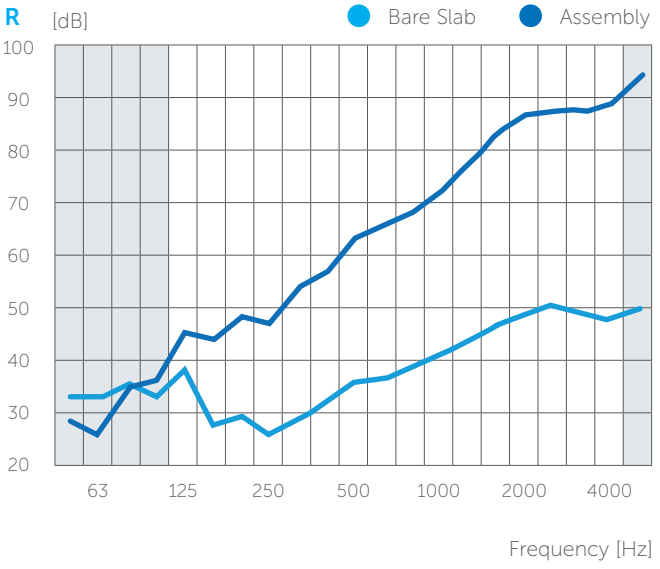
Setup	IIC	HIIC	LIIC	STC
Assembly	55	61	57	62
Bare Slab	23	22	51	39

Laboratory report available upon request
AC-22-030-14 & AC-22-030-28

Frequency [Hz]	L_n [dB]	
	Bare Slab	Assembly
50	63	60
63	65	63
80	65	62
100	67	61
125	73	62
160	82	64
200	83	60
250	83	61
315	86	61
400	87	60
500	87	57
630	87	50
800	88	46
1000	88	40
1250	86	34
1600	84	28
2000	80	20
2500	73	16
3150	66	17
4000	65	15
5000	59	9



Frequency [Hz]	R [dB]	
	Bare Slab	Assembly
50	33	28
63	33	26
80	35	35
100	33	36
125	38	45
160	28	44
200	29	49
250	26	47
315	28	54
400	33	57
500	36	63
630	36	66
800	38	68
1000	41	73
1250	43	78
1600	47	84
2000	49	87
2500	50	88
3150	49	88
4000	48	89
5000	50	95

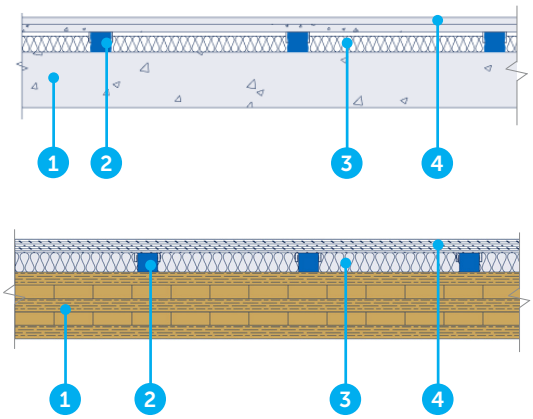


Note: measurements in accordance with ISO standards and single-figure ratings determined in accordance with ASTM standards.

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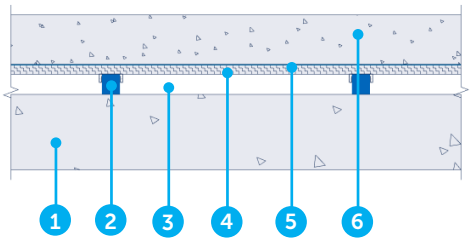
TYPICAL ASSEMBLIES

Panelized System



1. Structural slab
2. Isolated channel
3. Insulation material
4. Panelized raft

Concrete System



1. Structural slab
2. Isolated channel
3. Air void
4. Lost formwork
5. Polyethylene film
6. Floating concrete slab

Note: an installation manual is available upon request.

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

SCAN ME

Type III Environmental Product Declaration No. 865/2025
EPD Program Operator: Instytut Techniki Budowlanej (ITB)
Validity date: 12.18.2030

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