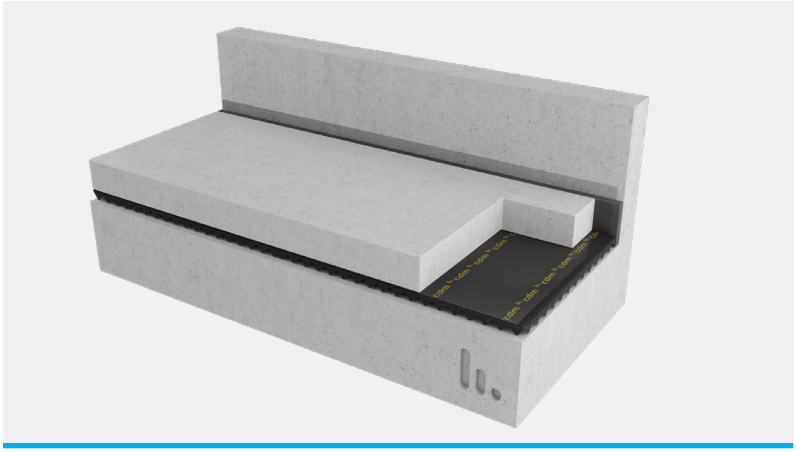

Stravifloor Mat-W

Datasheet

Stravifloor Mat-W is a wavy, low-profile roll-out isolation solution made of regenerated rubber with a high-performance and resilient bonding agent, providing good structure-borne noise protection.

Stravifloor Mat-W can be used with gypsum/lightweight, or normal-weight concrete without the need for formwork, and can also be installed with plywood and cement board systems.

Stravifloor Mat-W provides a great level of impact noise reduction with minimal system thickness and is a cost-effective solution to achieve building code requirements for floor-ceiling assemblies. The wave-contoured underside of the mat reduces the contact area to the subfloor and reduces the dynamic stiffness of the material to maximize its acoustical performance.

CHARACTERISTICS

- Roll-out system
- Cost-effective
- Reduced build-up height
- No formwork required

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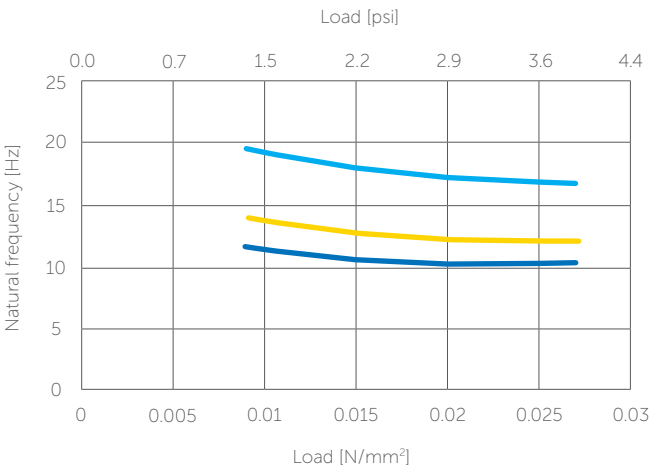
DIMENSIONS

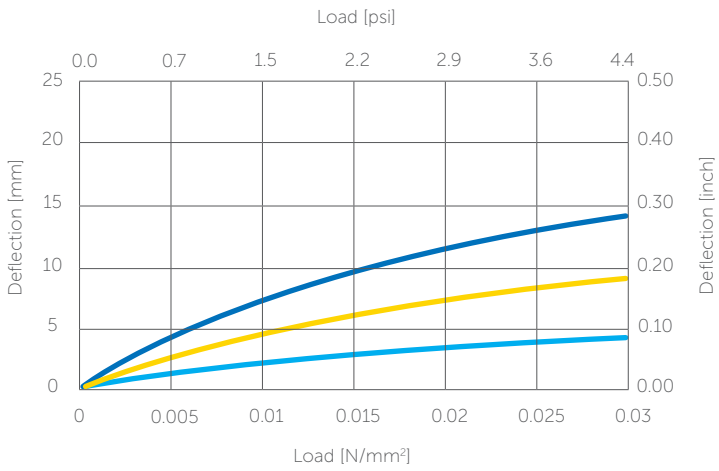
Type	Nominal Thickness	
	mm	inch
Stravifloor Mat-W25	25	1
Stravifloor Mat-W50	50	2
Stravifloor Mat-W75	75	3

PHYSICAL & MECHANICAL PROPERTIES

Natural frequency versus Load



Deflection versus Load



- Stravifloor Mat-W25 [25 mm (1")]
- Stravifloor Mat-W50 [50 mm (2")]
- Stravifloor Mat-W25 [75 mm (3")]

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ACOUSTICAL RESULTS

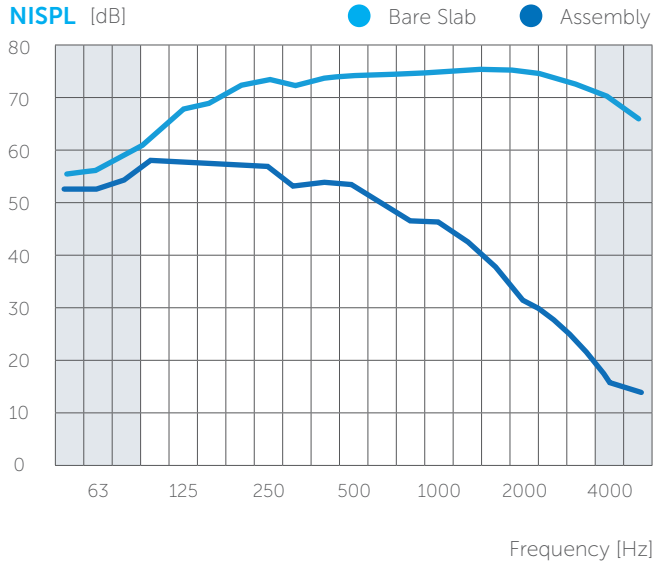
Test Setup

1. 100 mm (4") reinforced concrete floating floor
2. PE foil
3. 25 mm (1") Stravifloor Mat-W25
4. 150 mm (6") reinforced concrete slab

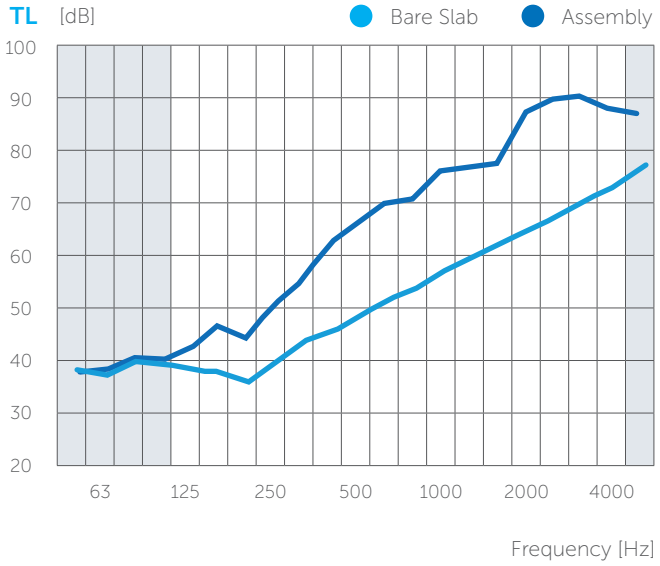
Setup	IIC	HIIC	LIIC	STC
Assembly	60	63	75	64
Bare Slab	29	28	66	53

Laboratory report available upon request
NRC Test Report A1-021983-10

Frequency [Hz]	NISPL [dB]	
	Bare Slab	Assembly
50	55	52
63	56	52
80	59	54
100	62	57
125	67	57
160	68	57
200	71	56
250	72	56
315	71	52
400	73	53
500	73	53
630	73	49
800	73	46
1000	74	45
1250	74	42
1600	74	37
2000	74	30
2500	73	27
3150	71	22
4000	69	15
5000	65	13



Frequency [Hz]	Airborne TL [dB]	
	Bare Slab	Assembly
50	39	39
63	39	39
80	41	42
100	40	41
125	39	43
160	39	47
200	37	46
250	41	52
315	45	56
400	47	63
500	50	67
630	53	71
800	55	72
1000	58	77
1250	61	78
1600	63	79
2000	66	88
2500	68	91
3150	72	91
4000	74	89
5000	78	88



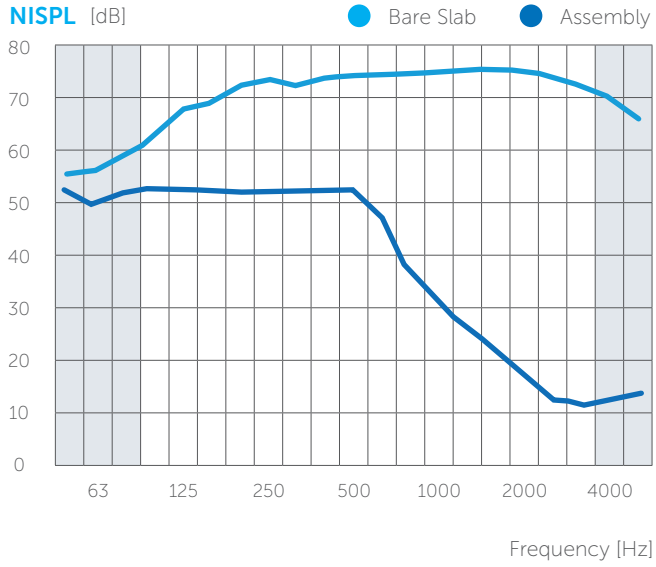
Test Setup

1. 100 mm (4") reinforced concrete floating floor
2. PE foil
3. 50 mm (2") Stravifloor Mat-W50
4. 150 mm (6") reinforced concrete slab

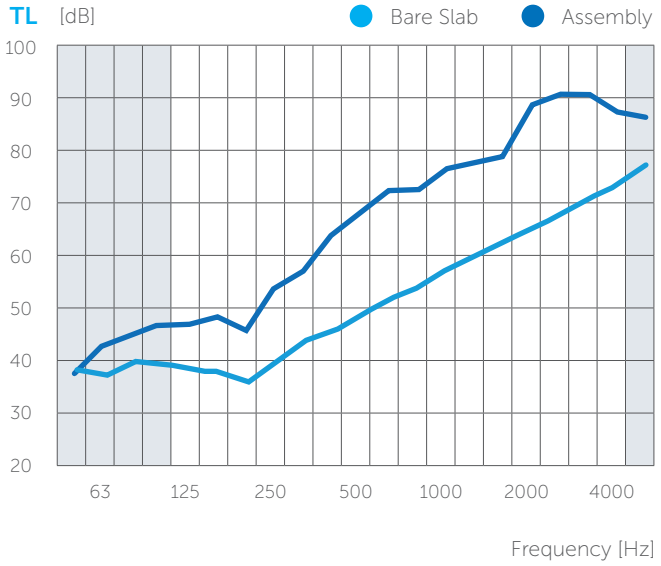
Setup	IIC	HIIC	LIIC	STC
Assembly	63	66	78	65
Bare Slab	29	28	66	53

Laboratory report available upon request
NRC Test Report A1-021983-11

Frequency [Hz]	NISPL [dB]	
	Bare Slab	Assembly
50	55	52
63	56	49
80	59	51
100	62	52
125	67	52
160	68	52
200	71	51
250	72	52
315	71	52
400	73	52
500	73	52
630	73	46
800	73	36
1000	74	30
1250	74	25
1600	74	21
2000	74	17
2500	73	12
3150	71	11
4000	69	12
5000	65	13



Frequency [Hz]	Airborne TL [dB]	
	Bare Slab	Assembly
50	39	39
63	39	44
80	41	46
100	40	48
125	39	48
160	39	49
200	37	47
250	41	55
315	45	58
400	47	65
500	50	69
630	53	73
800	55	73
1000	58	78
1250	61	78
1600	63	80
2000	66	89
2500	68	92
3150	72	92
4000	74	88
5000	78	87



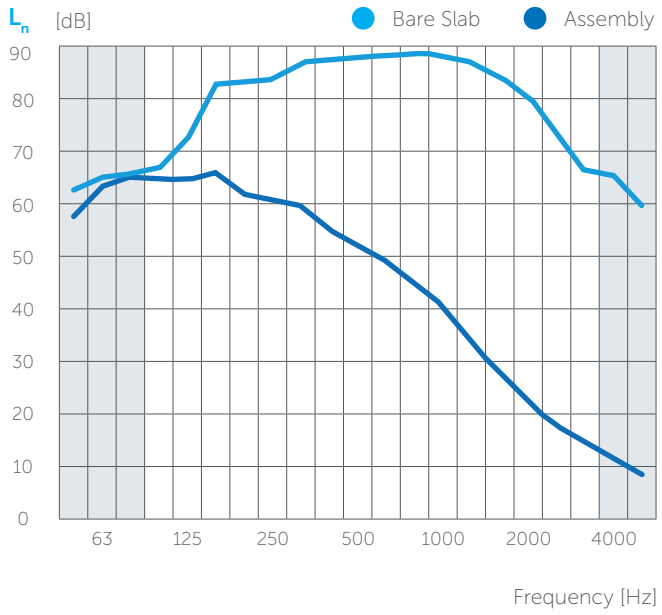
Test Setup

1. Floating floor: Plywood 19 mm (3/4") + Fermacell Powerboard H20 12.5 mm (1/2") + Plywood 19 mm (3/4")
2. 100 mm (4") Stravifloor Mat-W25 strips w/ cement & wooden boards [o.c. 610 mm (24")]
3. 180 mm (7-1/16") CLT 5-ply

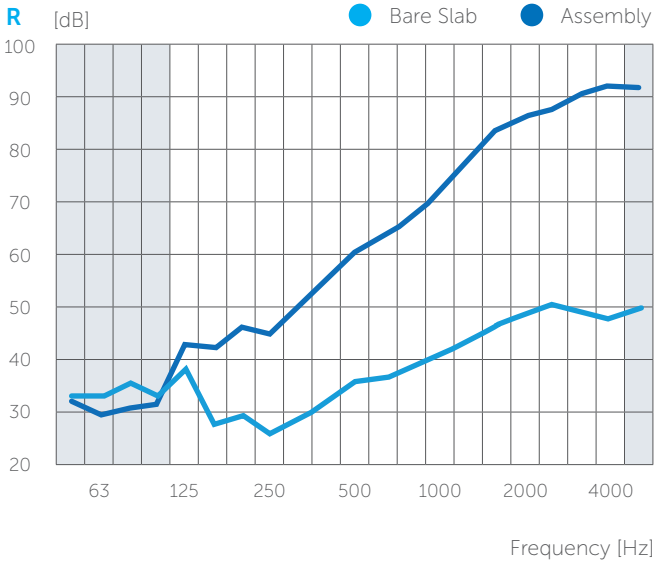
Setup	IIC	HIIC	LIIC	STC
Assembly	63	66	78	65
Bare Slab	29	28	66	53

Laboratory report available upon request
AC-22-030-23 and AC-22-030-28

Frequency [Hz]	L_n [dB]	
	Bare Slab	Assembly
50	63	58
63	65	63
80	65	65
100	67	64
125	73	65
160	82	66
200	83	62
250	83	61
315	86	59
400	87	55
500	87	52
630	87	49
800	88	45
1000	88	40
1250	86	34
1600	84	28
2000	80	22
2500	73	18
3150	66	16
4000	65	13
5000	59	9

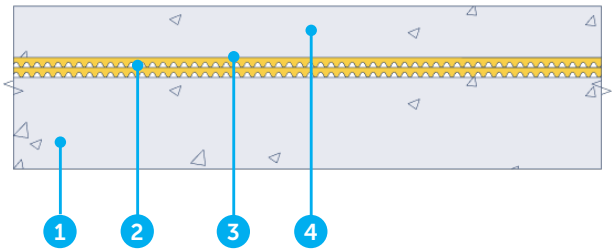


Frequency [Hz]	R [dB]	
	Bare Slab	Assembly
50	33	32
63	33	29
80	35	31
100	33	31
125	38	43
160	28	42
200	29	46
250	26	45
315	28	50
400	33	55
500	36	60
630	36	63
800	38	67
1000	41	71
1250	43	77
1600	47	83
2000	49	86
2500	50	87
3150	49	90
4000	48	92
5000	50	91



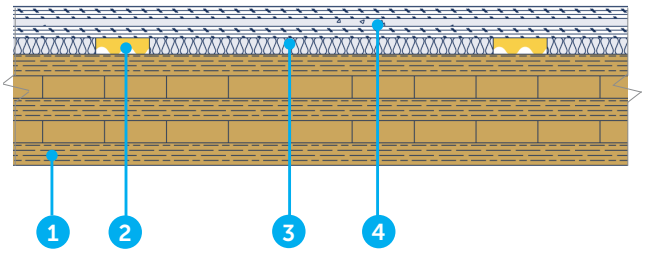
TYPICAL ASSEMBLIES

Concrete System



1. Structural slab
2. Stravifloor Mat-W25/50/75
3. PE-film (poly sheeting)
4. Reinforced concrete slab

Panelized Raft System



1. Structural slab
2. Strips or full surface of Stravifloor Mat-W25
3. Insulation material
4. Load distribution layer (e.g. 2x plywood + 1x fiber-gypsum board)

Note: an installation manual is available upon request.

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

SCAN ME

DISCLAIMER

This information is accurate to the best of our knowledge at the time of issue. Information, data and recommendations provided are based on industry accepted testing and prior product usage. It is intended as descriptive of the general capabilities and performance of our products and does not endorse applicability for any particular project. We reserve the right to change products, performance, and data without notice. This document replaces all information supplied prior to the publication hereof.

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