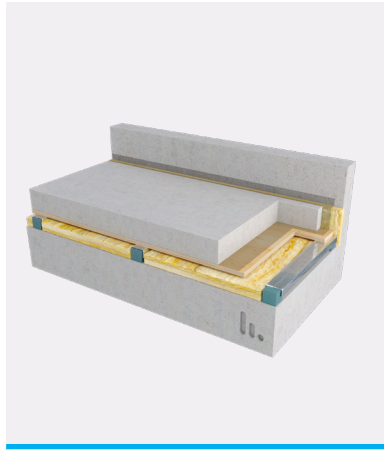


Stravifloor Channel^{*} Datasheet



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 (HR) as standard resilient support
- Available with AASHTO-grade neoprene rubber pads (AR), upon request
- Standard system heights are 1-3/16" (30 mm) and 2" (50 mm) (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 14.5 psi (0.1 MPa) to 440 psi (3 MPa) per pad
- Stravifloor Channel floor system uses elastomeric isolators with low stiffness/high resilience allowing natural frequencies as low as 6Hz
- 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



Isolated channels

Material

Steel floor battens

Standard Length

6' 6-3/4" (2 m)

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: 1-3/16" (30 mm) or 2" (50 mm)

Pads - Color Range

Natural Rubber (HR)

Pad-M



Pad-H



Pad-X



(black pad marked with the company logo in green)

Perimeter Strip

Resilient strips specially designed to minimize the flanking transmissions

Insulation material

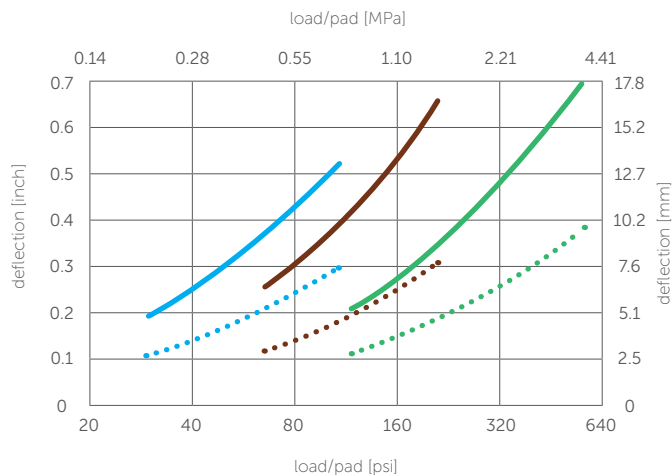
Fiberglass or rock wool insulation



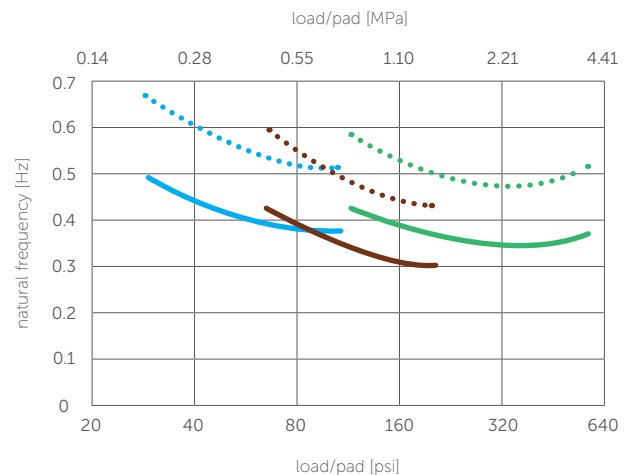
Type	Degree of stiffness	Color	Shore hardness ASTM D2240	Tensile strength ISO 37	Elongation at break ISO 37	Compression set 50%/73°F(23°C)/70h ISO 815
Pad-M	Medium	Blue	40 A	> 290 psi (2 MPa)	> 300%	< 15%
Pad-H	High	Brown	55 A	> 754 psi (5.2 MPa)	> 400%	< 15%
Pad-X	Extra High	Green	73 A	> 870 psi (6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

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

Deflection vs Load



Natural Frequency vs Load

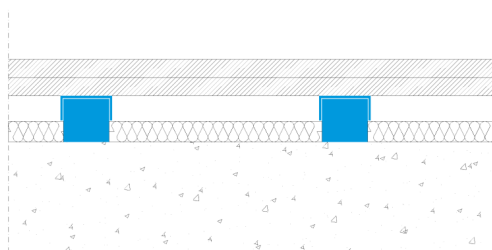


- Pad-M50 [2" (50 mm)]
- Pad-H50 [2" (50 mm)]
- Pad-X50 [2" (50 mm)]

- Pad-M30 [1-3/16" (30 mm)]
- Pad-H30 [1-3/16" (30 mm)]
- Pad-X30 [1-3/16" (30 mm)]

Test Report ÉMI Nonprofit Kft A-2575/2009⁽¹⁾ - Test SetupIsolated channel with Pad-L 1- $\frac{3}{16}$ "
(30 mm) + OSB boards

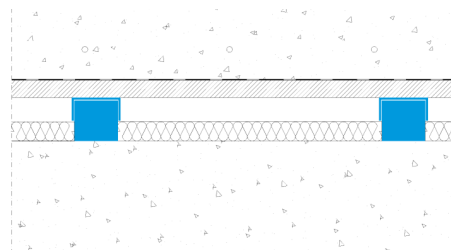
1. Load distribution layers (= 2 layers OSB (0.7") screwed to isolated channel)
2. Isolated channel with Pad-L 1- $\frac{3}{16}$ " (30 mm)
3. 6" (150 mm) structural concrete slab
4. Insulation material
5. Air void



Bare Slab IIC	IIC
30	59

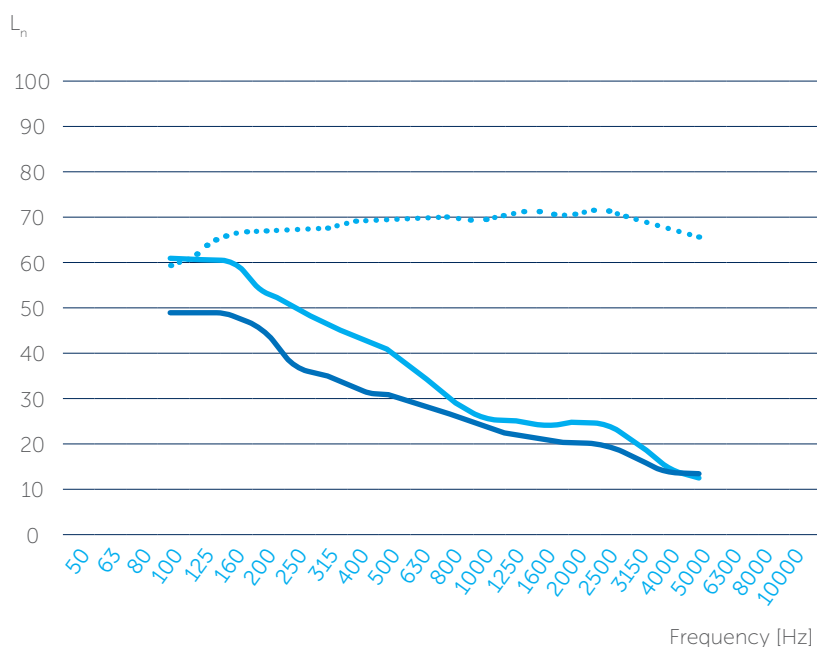
Isolated channel with Pad-M 1- $\frac{5}{8}$ "
(40 mm) + 2- $\frac{3}{8}$ " (60 mm) LWC

1. Floating floor (= 1 x OSB (0.7" / 18 mm) formwork + 2- $\frac{3}{8}$ " (60 mm) reinforced screed)
2. Isolated channel with Pad-M 1- $\frac{5}{8}$ " (40 mm)
3. 6" (150 mm) structural concrete slab
4. Insulation material
5. Air void



Bare Slab IIC	IIC
30	71

Acoustical Isolation



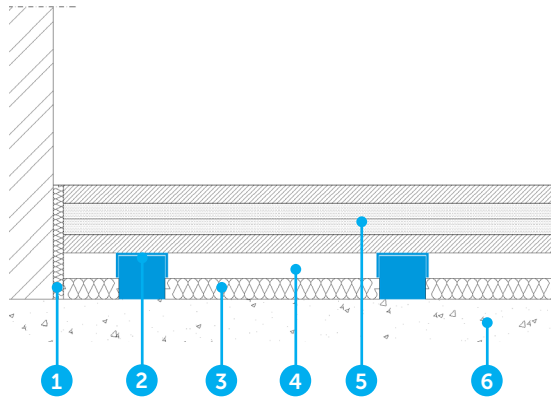
- L_0 (reference slab)
- L_1 (Stravifloor Channel with Pad-L 1- $\frac{3}{16}$ " (30 mm) + OSB boards)
- L_2 (Stravifloor Channel with Pad-M 1- $\frac{5}{8}$ " (40 mm) + 2- $\frac{3}{8}$ " (60 mm) LWC)

⁽¹⁾Test report available upon request



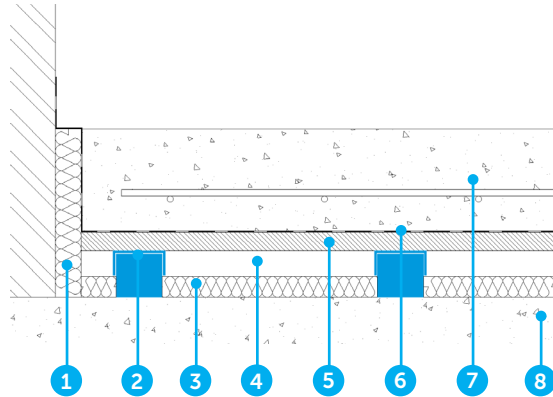
TYPICAL ASSEMBLIES

Panelized Raft System



1. Perimeter Strip
2. Isolated channel
3. Insulation material
4. Air void
5. Panelized raft
6. Structural slab

Concrete System



1. Perimeter Strip
2. Isolated channel
3. Insulation material
4. Air void
5. Lost formwork
6. Polyethylene film
7. Floating concrete slab
8. Structural slab

Note: an installation manual is available upon request.



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



SCAN
ME

DISCLAIMER

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