

Stravifloor Channel*

Datasheet



Stravifloor Channel is an **isolated steel floor batten** system for the support of concrete or timber floating floors and sprung-floor applications.

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.

Stravifloor Channel is the ideal choice to maximize noise insulation when an existing structure cannot support a heavyweight floating concrete slab.



CHARACTERISTICS

- Stravifloor Channel is available with 4 standard grades of resilient pads: Pad-L (low stiffness), Pad-M (medium stiffness), Pad-H (high stiffness) and Pad-X (extra high stiffness)
- Standard resilient support thickness are 30 mm and 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)
- Stravifloor Channel steel components are electro-galvanised
- The standard range of resilient pads is available to provide load-bearing capacities from 0,1 to 3 MPa per pad
- Stravifloor Channel floor systems use elastomeric isolators with low stiffness/high resilience allowing natural frequencies as low as 6Hz
- The system is fast and easy installation, making it a very cost efficient solution
- This system allows building services to be installed within the air void
- Stravifloor Channel channels are light, strong, stable and robust
- Stravifloor Channel channels eliminate 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
- CDM Stravitec pads used as discrete resilient support of Stravifloor Channel are durable and extremely low creep rate

*Previously known as CDM-LAT



Steel Channel 47 or 60

Material

Steel floor battens

Standard dimensions

Channel 47: 3 m X 47 mm
Channel 60: 2 m X 60 mm

CDM Stravitec resilient 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).
Standard thickness: 30 or 50 mm

Note: the channel spacing as well as the spacing between the pads needs to be determined by the CDM Stravitec engineering team according to the floating floor thickness and the load cases in operation phase. The selection of the type of elastomeric pad must be done by the CDM Stravitec engineering team according to the load cases in operation phase as well as the type of application.

Perimeter Strip

Standard dimensions

50/100/150/200 mm x 10 mm

Standard thickness

10 mm

Insulation material

Dimensions

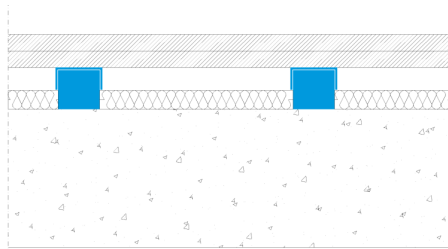
Defined according to project requirements



Test Report ÉMI Nonprofit Kft A-2575/2009⁽¹⁾ - Test Setup

Isolated channels-L30 + OSB boards

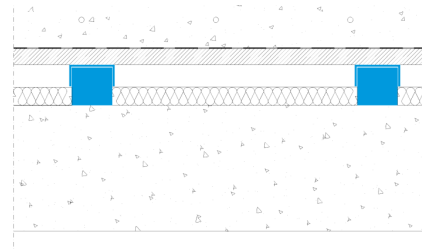
- Load distribution layers [= 2 layers OSB (18 mm) screwed to isolated channel]
- Isolated channels-L30
- 150 mm reinforced concrete slab
- Mineral wool
- Air void



$L_{n,w}(C_i)$	$\Delta L_{w,r}(C_i)$
49 (1) dB	25 (3) dB

Isolated channels-M40 + 60 mm screed & Isolated channels-M40 + 100 mm screed

- Floating floor [= 1 x OSB (18 mm) formwork + 60 or 100 mm reinforced screed]
- Isolated channels-M40
- 150 mm reinforced concrete slab
- Mineral wool
- Air void



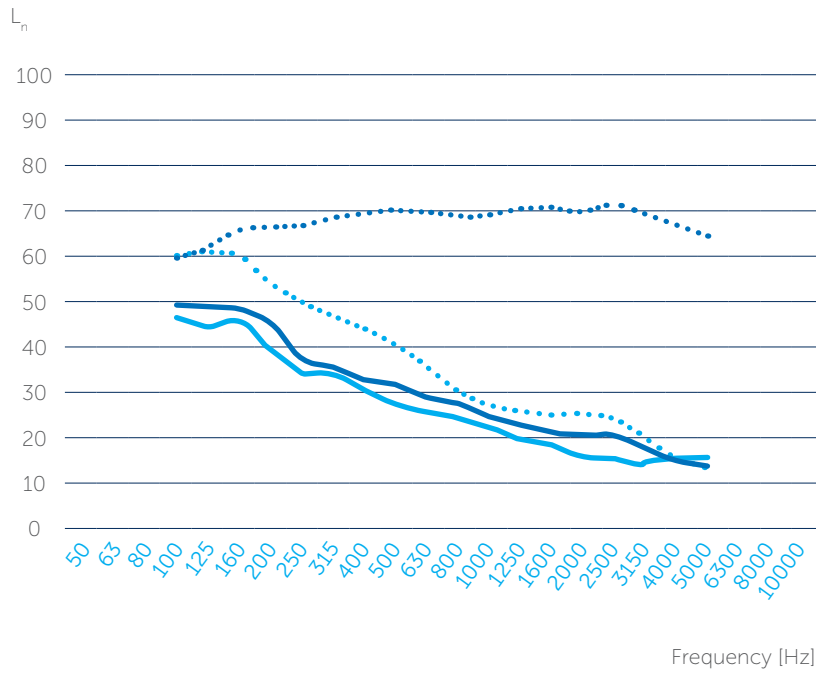
$L_{n,w}(C_i)$	$\Delta L_{w,r}(C_i)$
38 (1) dB	36 (2) dB

$L_{n,w}(C_i)$	$\Delta L_{w,r}(C_i)$
34 (2) dB	40 (3) dB

Test Setup: Isolated channels-M40 + 60 mm screed

Test Setup: Isolated channels-M40 + 100 mm screed

Acoustical Isolation



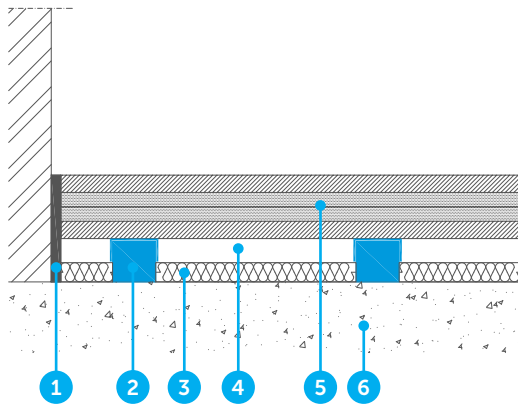
- L_n (Isolated channels-L30+ OSB boards)
- L_0 (reference slab)
- L_n (Isolated channels-M40 + 100 mm screed)
- L_n (Isolated channels-M40 + 60 mm screed)

⁽¹⁾Test report available upon request



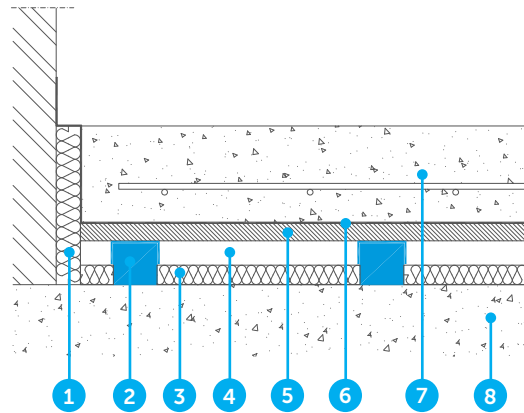
TYPICAL ASSEMBLIES

Dry - Panelized Raft System



1. Perimeter Strip
2. Isolated channel
3. Insulation material
4. Air void
5. Load distribution layers
6. Structural slab

Wet - Concrete System



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

Note: an installation manual is available upon request.

WILHAMS

Wilhams Insulation Far East Sdn Bhd

15 & 17 Jalan Utarid U5/23
Mah Sing Integrated Industrial Park
40150 Shah Alam, Selangor, Malaysia
Tel : 603-7846 6728
E-mail : wilhams@wilhams.com.my
Website : www.wilhams.com.my

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