stravilink
by CDM Stravitec

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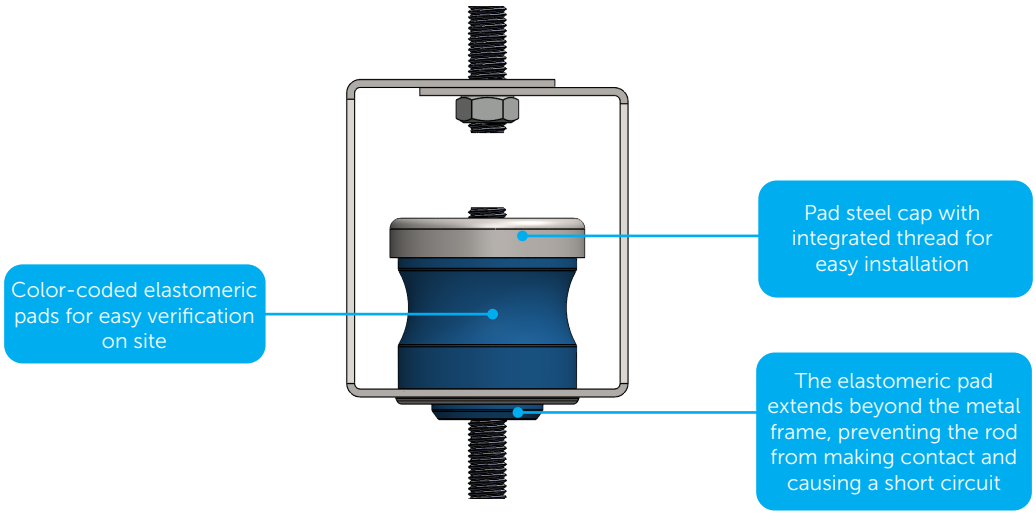
Stravilink DCH-P
Datasheet

Stravilink DCH-P is a Drop Ceiling Hanger with Elastomeric Pads designed to fit most ceiling voids and seamlessly integrate with all ceiling types. It enhances sound insulation between vertically stacked rooms, ensuring optimal acoustic performance.

FEATURES

- Equipped with elastomeric pads featuring a natural frequency of around 8 Hz at design load
- Available in different elastomeric pad options, supporting loads from 10 to 45 kg
- Colour-coded elastomeric pads are available for different load ranges, making it easy to verify on-site that the correct pad is used
- Suitable for installation on various structures, including concrete and cross-laminated timber (CLT) slabs
- Interfaces seamlessly with all ceiling types
- Compact frame (62.8 mm) allows installation in most acoustic suspended ceiling voids
- Supports variable void depths
- Elastomeric pad extends beyond the metal frame, preventing the rod from short-circuiting with the frame
- Simple and fast installation process
- Suitable for supporting low to medium-load ductwork, pipes, and speakers



PACKAGING

Model	Reference	Quantity per Box	Weight per Box [kg]	Dimension of Box [cm]
Stravilink DCH-P240	001979	50	6.75	29 x 23.5 x 17.2
Stravilink DCH-P360	001980	50	6.78	29 x 23.5 x 17.2

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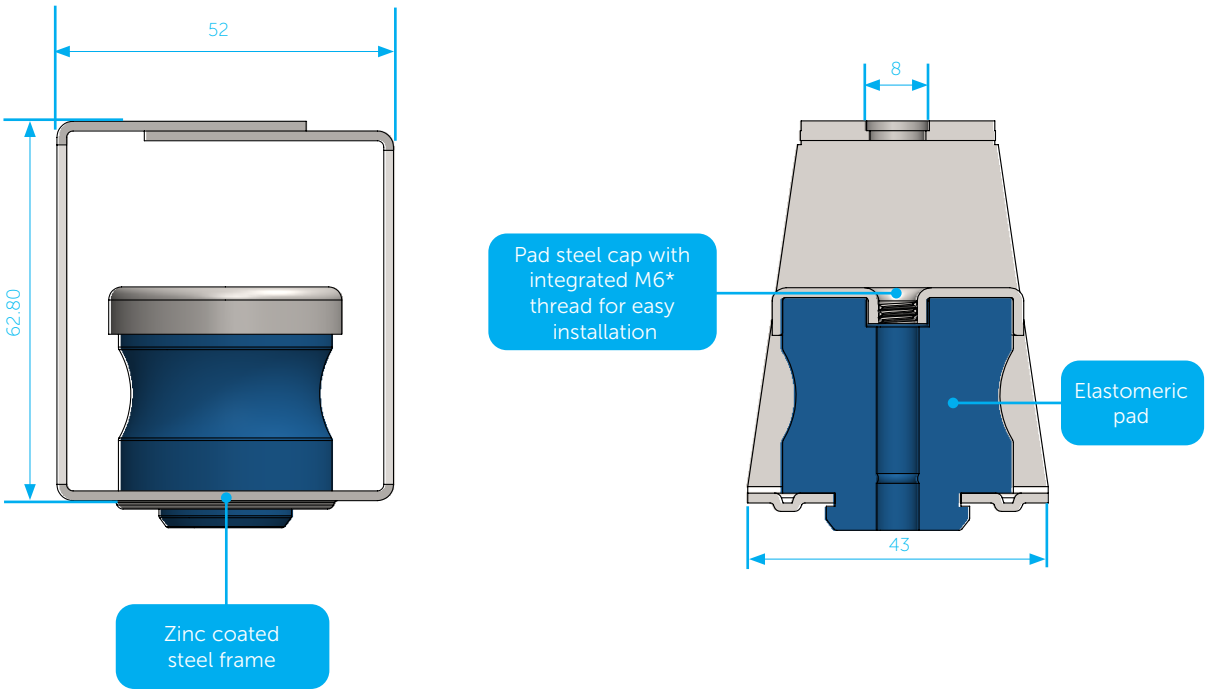
PHYSICAL & MECHANICAL PROPERTIES

Model	Design Load		Resonance Frequency at Design Load	Load Range (per Hanger)		Pad Colour
	kg	N	Hz	kg	N	
Stravilink DCH-P240	24	240	< 7.5	10 - 30	100 - 300	Sky Blue
Stravilink DCH-P360	36	360	< 8.5	20 - 45	200 - 450	Silver Grey

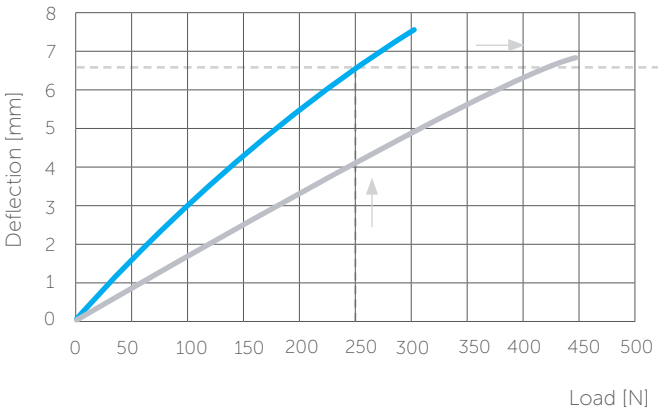
Notes:
Admissible load of steel elements: 1157.25 N.
Products are suited up to a C2 environment (atmosphere with little or no degree of pollution).
The temperature range of use is between -30°C and 70°C.
To assess which type is appropriate the following information is needed:
1) The weight and construction of the supported ceiling - this will determine the type of hanger;
2) The weights and support locations of any items hung from the ceiling.



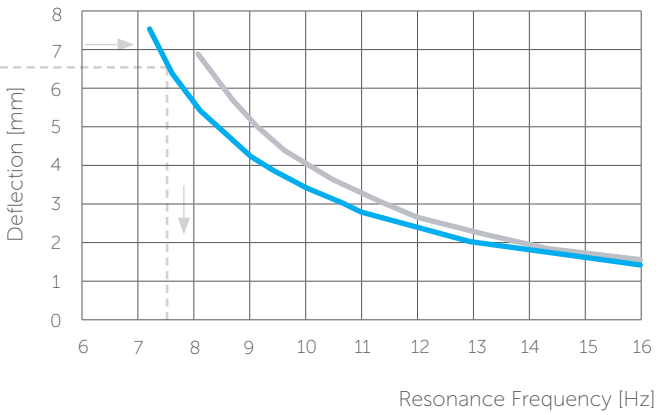
Notes:
All dimensions in milimeters (mm).
*Available in M8, upon request.

PERFORMANCE GRAPHS

Deflection as Function of Load



Relationship between Deflection and Resonance Frequency



Stravilink DCH-P240 Stravilink DCH-P360

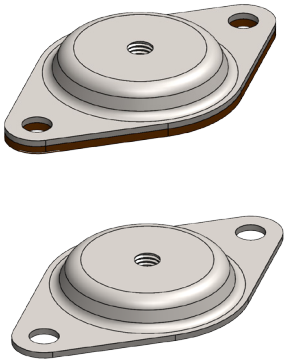
The resonance frequency of a Stravilink hanger can be determined by its load. To start the calculation use the graph "Deflection as Function of Load" this will provide the deflection at the specified load. Then moving horizontally to the right hand side plot "Deflection as Function of Frequency" on which the corresponding resonance frequency can be found. As an example, the resonance frequency of a Stravilink DCH-P240 loaded with 250 N is determined. The corresponding deflection is 6.5 mm. The resonance frequency of a spring at 6.5 mm deflection is 7.5 Hz.

ACCESSORIES

Perimeter Strip

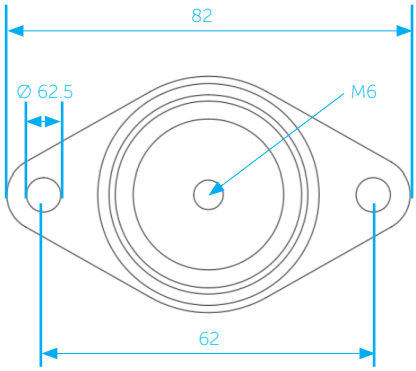
1. Self-adhesive perimeter strip 10 mm thick to isolate the ceiling from the adjacent walls.

Note: Standard widths of 50 mm, 100 mm, and 150 mm are available in 10 lm rolls.



M6 anchor plate

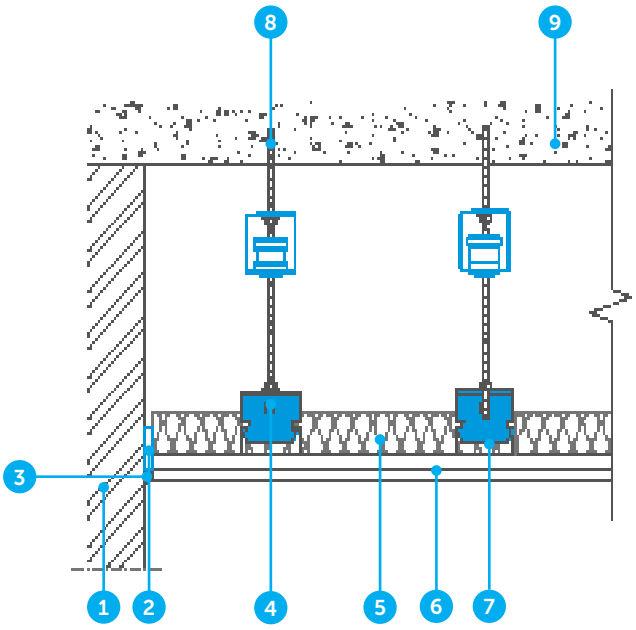
Available with (for settlement on rough surfaces) or without rubber (2 mm)
Material: DX51D+S275
Admissible load of steel element: 3090 N



Note: All dimensions in milimeters (mm).

TYPICAL ASSEMBLIES

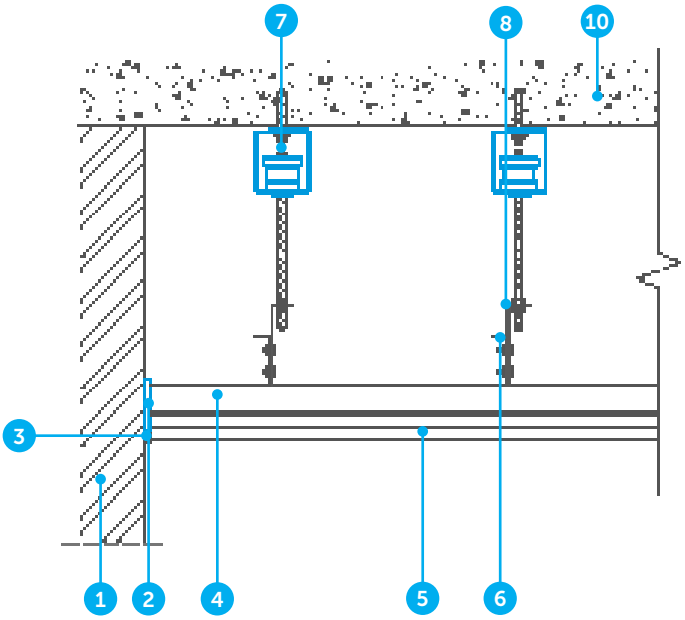
47/60 mm channel



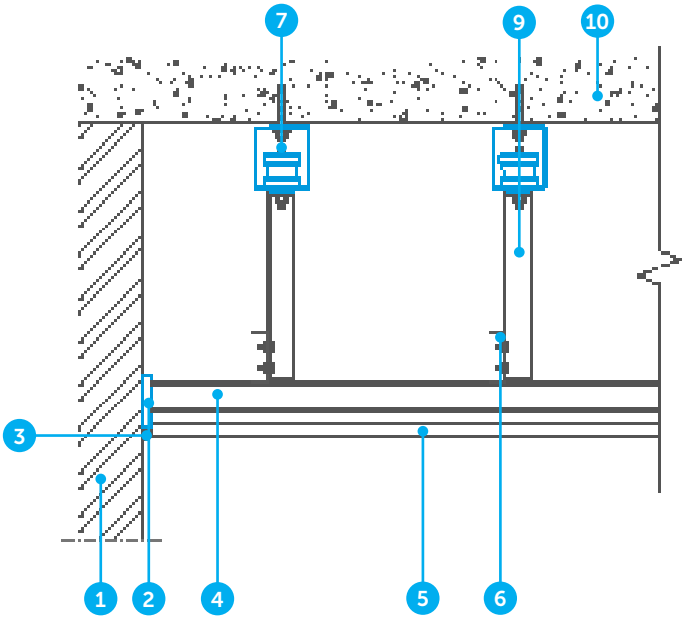
1. Wall
2. Perimeter Strip
3. Elastic caulk
4. C Clip
5. Absortion layer
6. Plasterboards, gypsum board or dry lining
7. 47/60 mm channel
8. Stravilink DCH-P
9. Concrete Slab

MF grid

Option 1



Option 2



1. Wall
2. Perimeter Strip
3. Elastic caulk
4. British gypsum MF5 secondary channel
5. Plasterboards, gypsum board or dry lining
6. British gypsum MF7 primary channel
7. Stravilink DCH-P
8. Pre-formed angle bracket
9. British gypsum FEA1 angle
10. Concrete Slab

ACOUSTIC RESULTS

Test Setup

Assembly 1

1. 140 mm CLT 5-ply
2. Stravilink CC60-P240 clips [on grid of 600 mm x 800 mm]
3. 50 mm mineral wool
4. 2x layers 18 mm gypsum boards

Assembly 2

1. 18 mm OSB board
2. Wooden joist (63 x 178 mm)
3. Stravilink IJH-P214
4. 100 mm mineral wool
5. 2x 12.5 mm gypsum boards

Assembly 3

1. 18 mm OSB board
2. Wooden joist (63 x 178 mm)
3. Stravilink IJH-P214
4. 100 mm mineral wool
5. 2x 12.5 mm gypsum boards w/ 3 mm Damping Layer in between

Setup	$L_{n,w}$ (C_i)	ΔL_w (C_i)	R_W (C,C_{tr})
Assembly 1	**56 (-2)**	**31 (-5)**	**67 (-2, -7)**
Bare Slab 1	88 (-4)		38 (-1, -3)
Assembly 2	**57 (0)**	**30 (-4)**	**58 (-5, -12)**
Bare Slab 2 & 3	90 (-6)	**30 (-3)**	26 (-1, -3)
Assembly 3	**56 (0)**		**60 (-3, -10)**

Laboratory report available upon request
Assembly 1: Test report number AC-23-084-01
Assembly 2: Test report number AC5973 & AC5963
Assembly 3: Test report number AC5972 & AC5962

The test setups above did not use the Stravilink DCH-P but were conducted with products featuring elastomeric pads with properties similar to those in the Stravilink DCH-P under identical load conditions. Therefore, the performance of this product is expected to be comparable under the same conditions.

Scan the QR code to access Stravi-dB acoustic data, including reports and editable CSV files.
https://stravi-db.com/

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