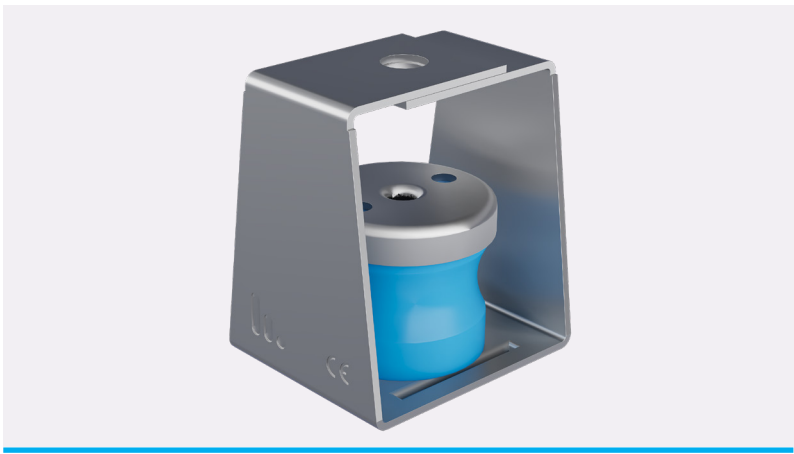




Scan here for access to
solution website page
for other documents

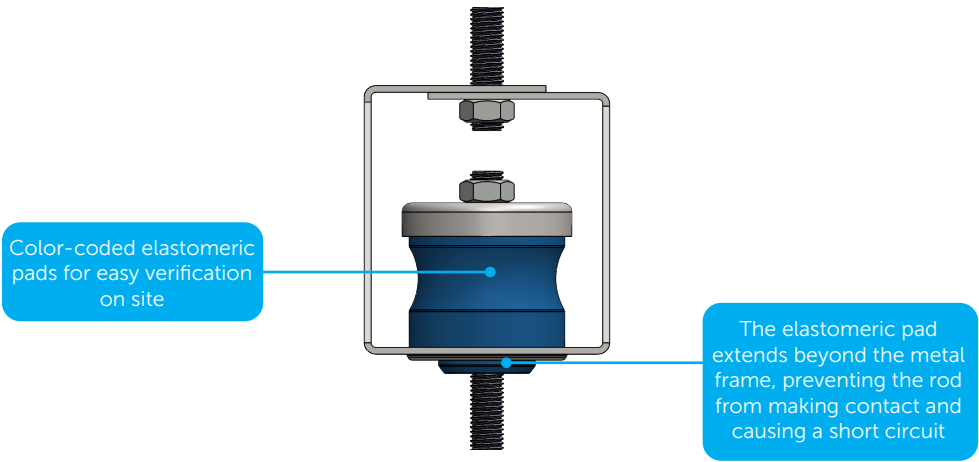
Stravilink DCH-P

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 (22 to 101 lbs)
- Color-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
- Interfaces seamlessly with all ceiling types
- Compact frame [62.8 mm (3-9/16")] allows installation in most acoustic suspended ceiling voids
- Variable void depth is possible
- Elastomeric pad extends beyond the metal frame, preventing the rod from short-circuiting with the frame
- Simple and fast installation process



PACKAGING

Model	Reference	Quantity per Box	Weight per Box [kg (lbs)]	Dimension of Box [cm (inch)]
Stravilink DCH-P54	001981	50	6.8 (15)	29 x 23.5 x 17.2 (11-7/16" x 9-1/4" x 6-3/4")
Stravilink DCH-P81	001982	50	6.8 (15)	29 x 23.5 x 17.2 (11-7/16" x 9-1/4" x 6-3/4")



PHYSICAL & MECHANICAL PROPERTIES

Model	Design Load		Resonance Frequency at Design Load	Load Range (per Hanger)		Pad Colour
	lbs	N		lbs	N	
Stravilink DCH-P54	54	240	7.5	22 - 67	100 - 300	Sky Blue ●
Stravilink DCH-P81	81	360	8.5	45 - 101	200 - 450	Silver Grey ●

Notes:

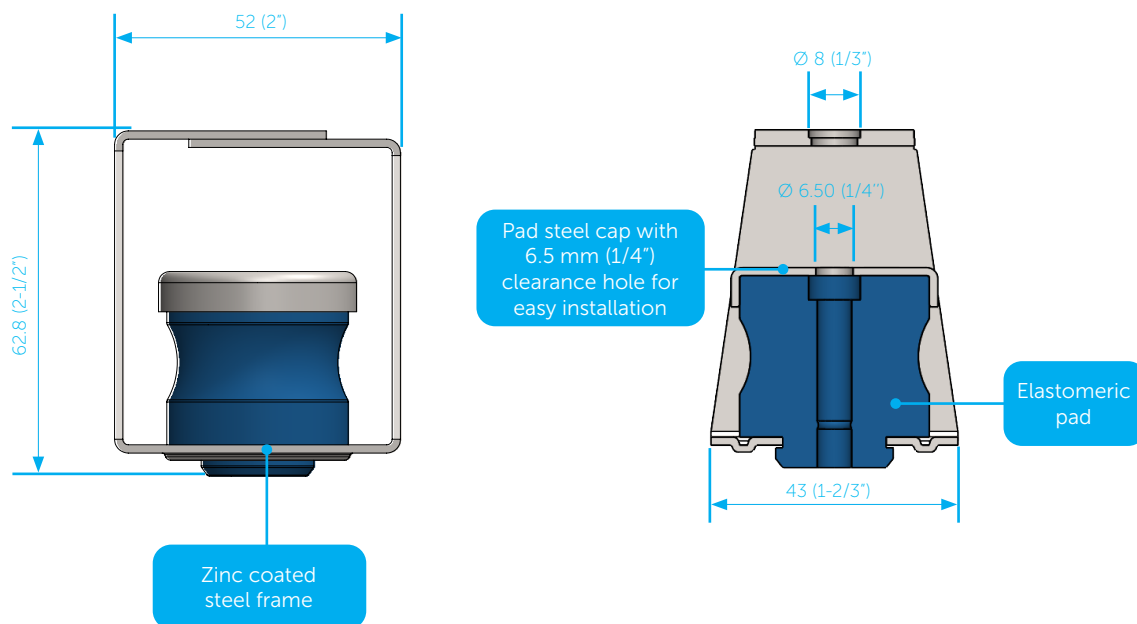
Admissible load of steel elements: 1157.25 N (260 lbs)

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 (-22°F) and 70°C (158°F)

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.



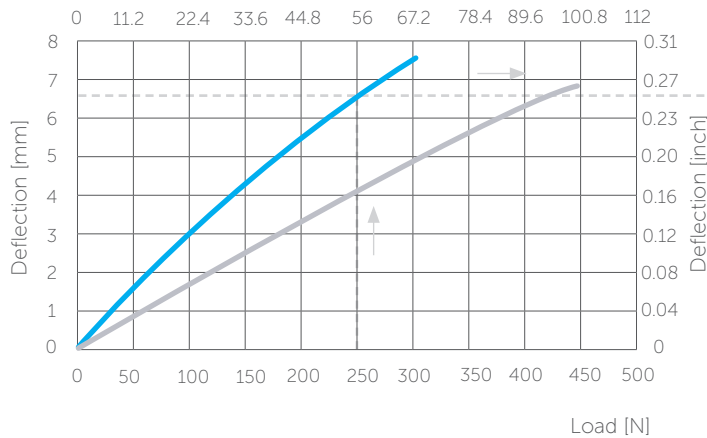
Notes:

All dimensions in millimeters (inches).

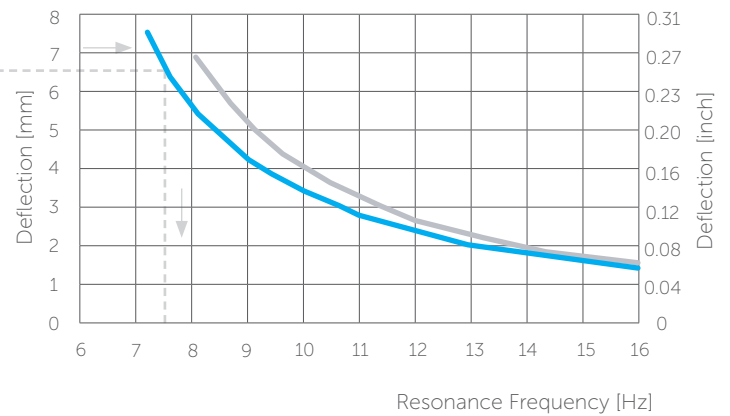


PERFORMANCE GRAPHS

Deflection as Function of Load



Relationship between Deflection and Resonance Frequency



● Stravilink DCH-P54

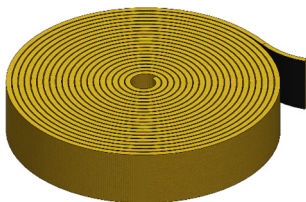
● Stravilink DCH-P81



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-P54 loaded with 250 N (56 lbs) is determined. The corresponding deflection is 6.5 mm (1/4"). The resonance frequency of a pad at 6.5 mm (1/4") deflection is 7.5 Hz.



ACCESSORIES



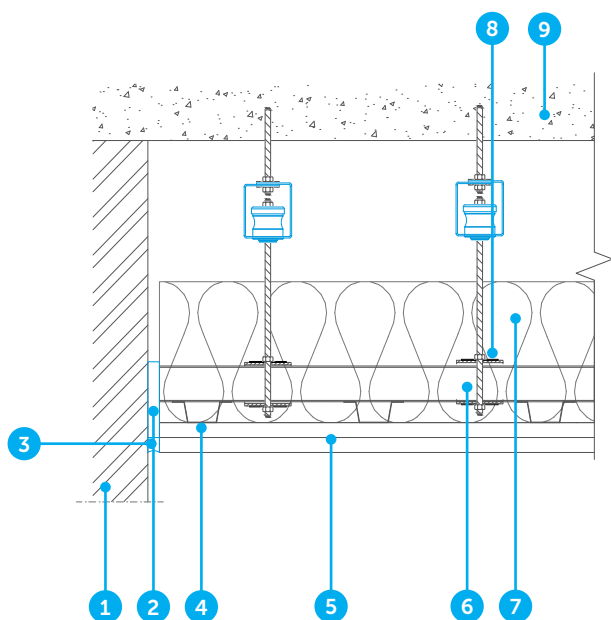
Perimeter Strip

Self-adhesive perimeter strip 10 mm (3/8") thick to isolate the ceiling from the adjacent walls.

Note: Standard widths of 50 mm (2"), 100 mm (4"), and 150 mm (6") are available in 10 m (32' 9-11/16") rolls.

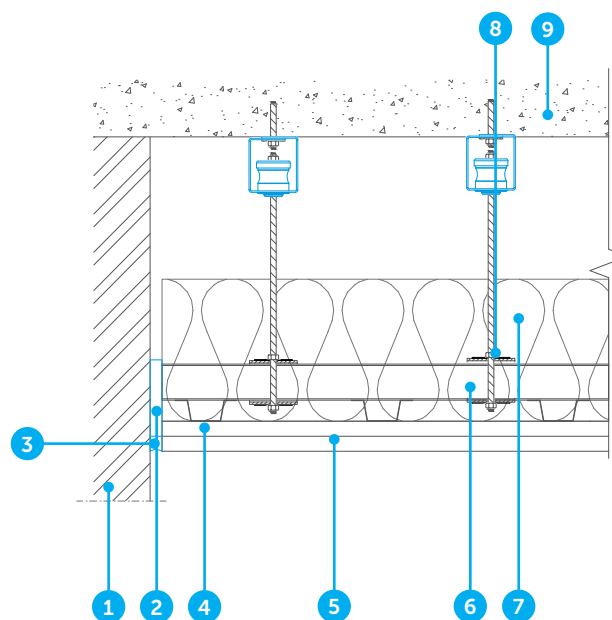


Suspended from ceiling



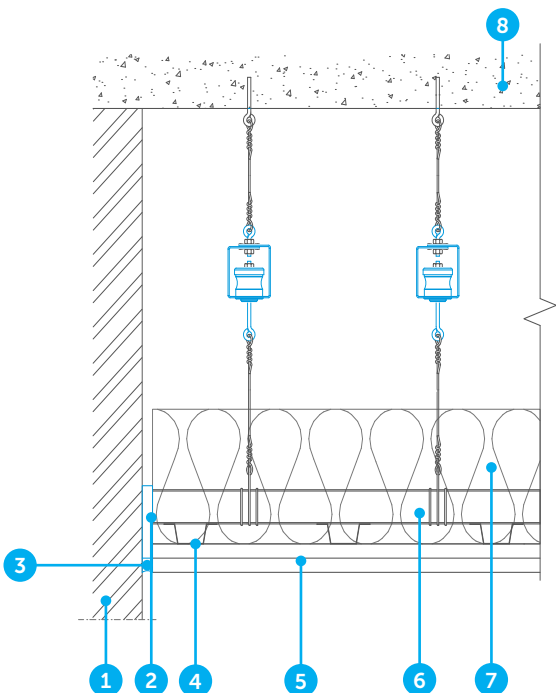
- 1. Wall
- 2. Perimeter Strip
- 3. Elastic caulk
- 4. Furring channel
- 5. Plasterboards, gypsum board or dry lining

Directly fixed to ceiling



- 6. Cold rolled channel
- 7. Absorption layer
- 8. Channel adaptor clip
- 9. Concrete Slab

Suspended from ceiling (wire)



- 1. Wall
- 2. Perimeter Strip
- 3. Elastic caulk
- 4. Furring channel
- 5. Plasterboards, gypsum board or
- 6. Cold rolled channel
- 7. Absorption layer
- 8. Concrete Slab



Test Setup

Assembly 1

1. 140 mm (5-1/2") CLT 5-ply
2. Stravilink CC60-P54 clips [on grid of 600 mm x 800 mm (23-5/8" x 31-1/2")]
3. 50 mm (2") mineral wool
4. 2x layers 18 mm (11/16") gypsum boards

Assembly 2

1. 8 mm (11/16") OSB boards
2. Wooden joist [63x178 mm (2-1/2"x7")]
3. Stravilink IJH-P48
4. 100 mm (4") mineral wool
5. 2x 12.5 mm (15/32") gypsum boards

Assembly 3

1. 18 mm (11/16") OSB boards
2. Wooden joist (63 x 178 mm)
3. Stravilink IJH-P48
4. 100 mm (4") mineral wool
5. 2x 12.5 mm (15/32") gypsum boards w/ 3 mm (1/8") Damping Layer in between

Setup

IIC

STC

Assembly 1	54	68
Bare Slab 1	22	38
Assembly 2	52	56
Assembly 3	54	59
Bare Slab 2 & 3	20	25

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/>



SCAN
ME

DISCLAIMER

The documentation prepared by CDM Stravitec (including but not limited to installation guidelines) contains generally accepted procedures for a successful installation of Stravilink DCH-P for acoustically isolated ceiling hanger. Any part of the suggestions presented herein, or other documentation, may be followed, modified, or rejected by the owner, engineer, contractor, and/or their representative(s) since they, and not CDM Stravitec, are responsible for planning and execution procedures appropriate to a specific application. CDM Stravitec reserves the right to alter in part or in whole the documentation prepared as well as any recommendations included. It is the responsibility of the Client (direct or indirect) to ensure they have always the latest documentation and to that effect CDM Stravitec encourage contact with its local representatives to review any project specific modifications to the suggested guidelines prior to the start of the installation on site.

This documentation prepared by CDM Stravitec contains loading information for the Stravilink DCH-P for acoustically isolated ceiling hangers. It should be noted that any loading information contained herein represent the loading information for the Stravilink DCH-P only as supplied to the Client. This information does not in any way represent an indication and/or validation of the load capacity of any other elements not supplied by CDM Stravitec - including but not limited to anchors, hanging wires, threaded rods and framing elements for the acoustical ceiling and/or supported elements.

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.