stravilink
by CDM Stravitec

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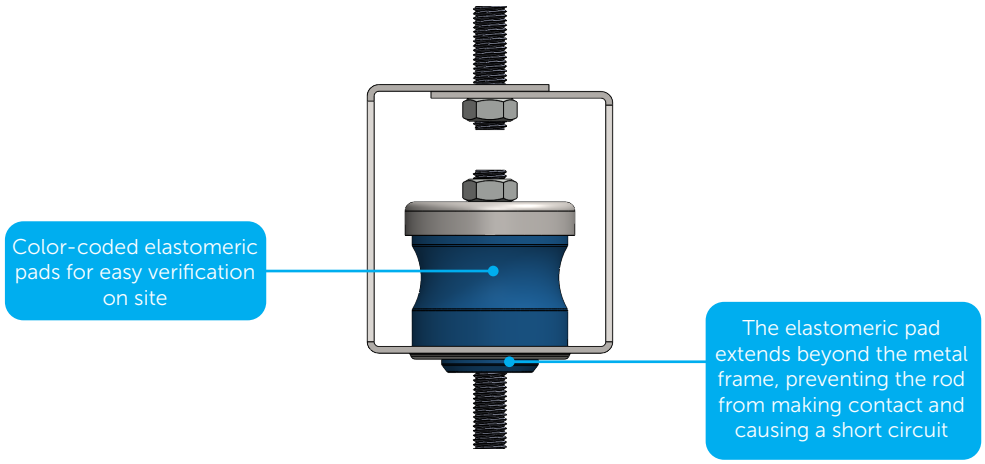
Stravilink DCH-P
Datasheet

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 78.5 kg (22 to 172 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 (2-1/2")] 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	6.75 (14.88)	29 x 23.5 x 17.2 (11-7/16" x 9-1/4" x 6-3/4")
Stravilink DCH-P81	001982	50	6.78 (14.95)	29 x 23.5 x 17.2 (11-7/16" x 9-1/4" x 6-3/4")
Stravilink DCH-P142	002010	50	6.78 (14.95)	29 x 23.5 x 17.2 (11-7/16" x 9-1/4" x 6-3/4")

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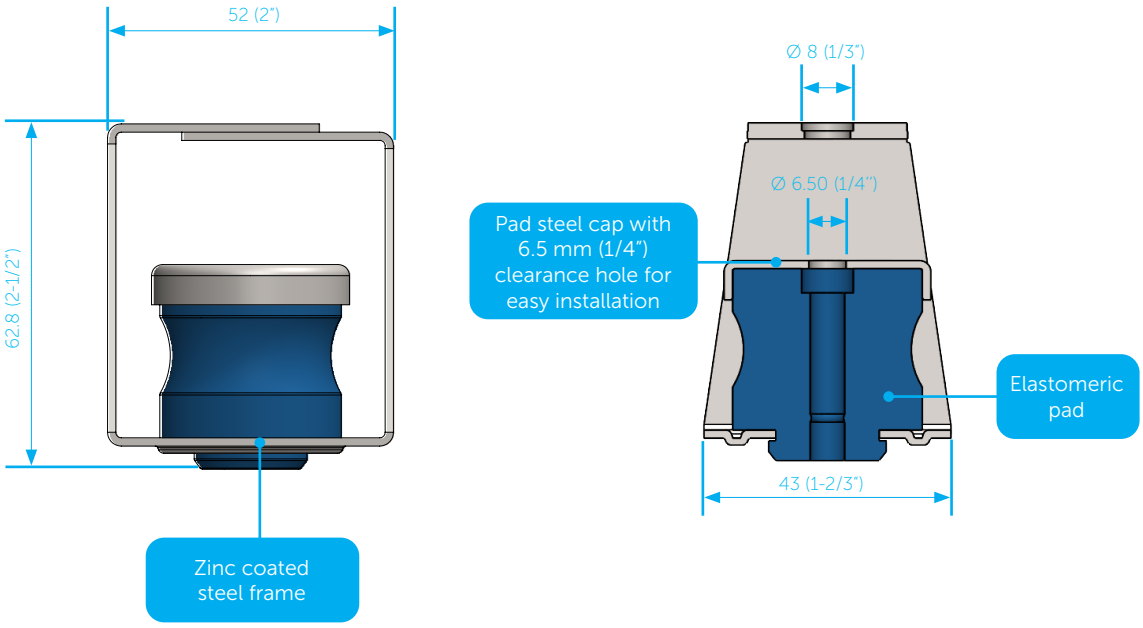
PHYSICAL & MECHANICAL PROPERTIES

Model	Design Load		Resonance Frequency at Design Load	Load Range (per Hanger)		Pad Colour
	lbs	N	Hz	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
Stravilink DCH-P142	142	625	9.0	66 - 172	300 - 785	Dark Blue

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 milimeters (inches).

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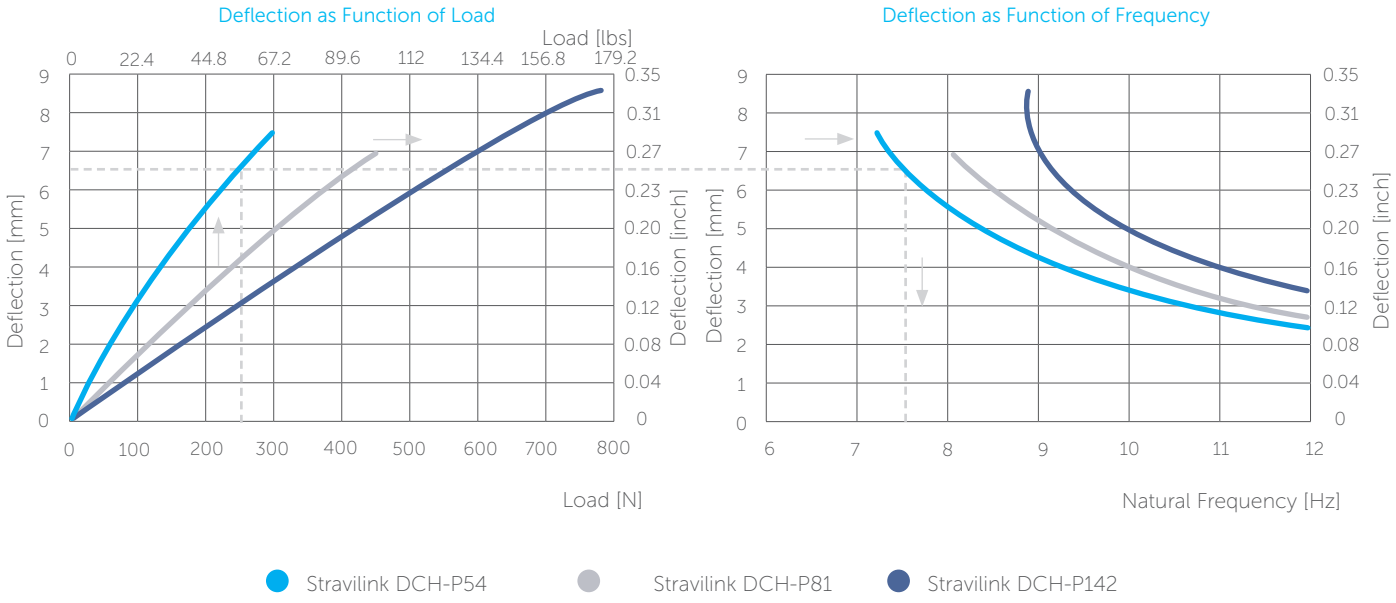
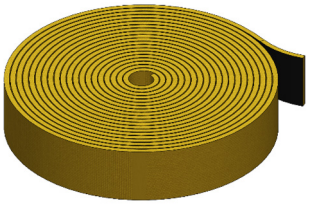
PERFORMANCE GRAPHS



The natural frequency of a Stravilink DCH-P 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 natural frequency of a Stravilink DCH-P54 loaded with 250 N (55 lbs) is determined. The corresponding deflection is 6.5 mm (0.25"). The natural frequency of the pad at 6.5 mm (0.25") 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.

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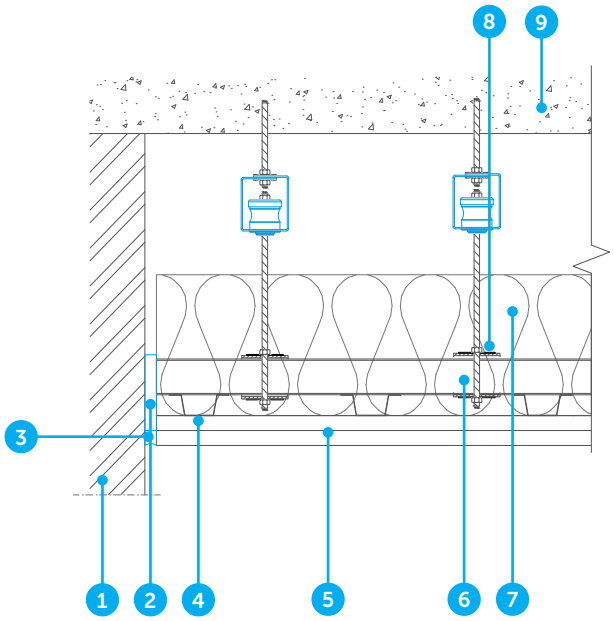
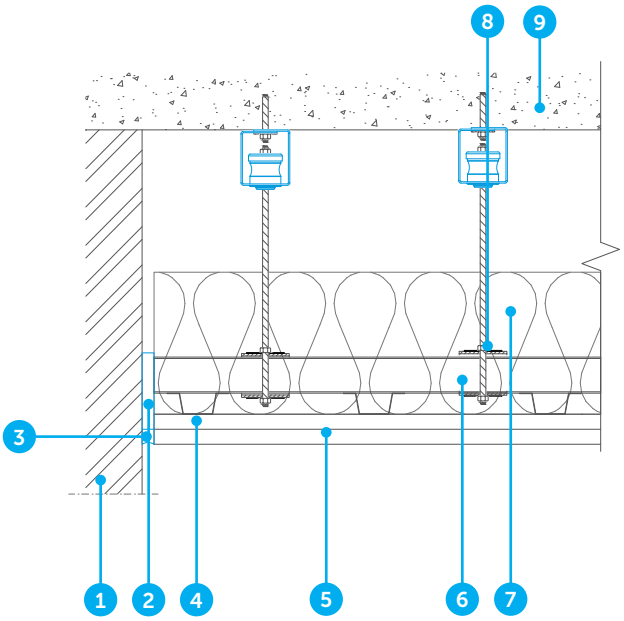
TYPICAL ASSEMBLIES

Suspended from ceiling

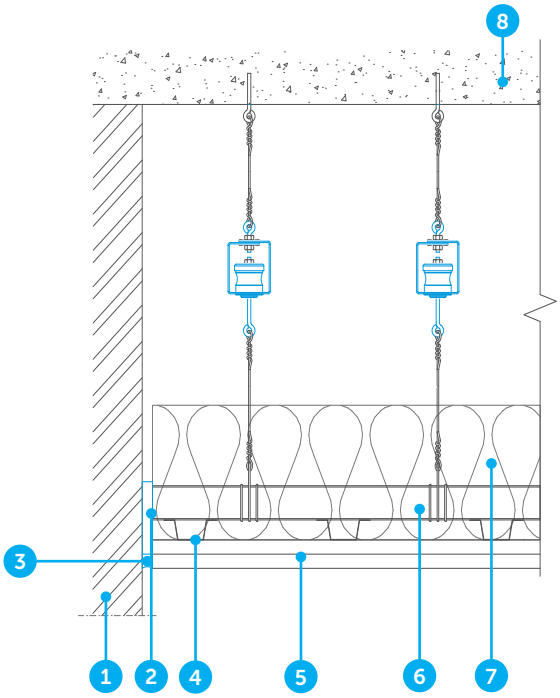


Directly fixed to ceiling



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

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ACOUSTIC RESULTS

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. 140 mm (5-1/2") concrete base slab
2. 100 mm (4") void
3. Stravilink CC60-P clips [on grid of 567.5 x 1200 mm (22-5/16" x 48")]
4. 60 mm (2-3/8") mineral wool
5. 2x layers 12.5 mm (1/2") gypsum boards

Setup	IIC	STC
Assembly 1	**54**	**68**
Bare Slab 1	22	38
Assembly 2	**60**	**72**
Bare Slab 2	23	52

Laboratory report available upon request
Assembly 1: Test report number AC-23-084-01
Assembly 2: Test report numbers TS-25-586-08 & TS-25-586-14

! 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.

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https://stravi-db.com/

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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 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.

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