stravilink
by CDM Stravitec

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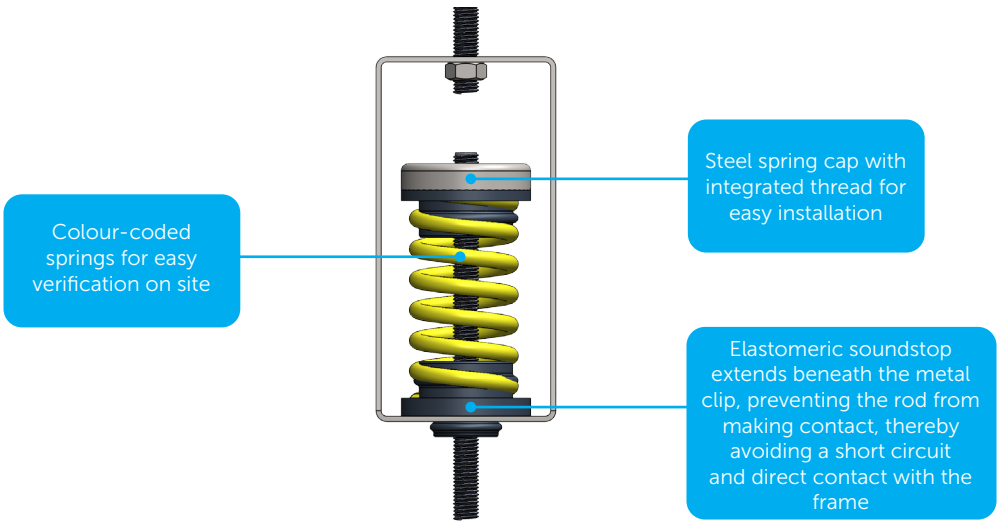
Stravilink DCH-S
Datasheet

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

FEATURES

- Suitable for installation on various structures, including concrete and cross-laminated timber (CLT) slabs
- Equipped with springs featuring a natural frequency of 4 Hz at design load
- Available in different spring options, supporting loads from 4 to 59 kg
- Colour-coded springs are available for different load ranges, making it easy to verify on-site that the correct spring is used
- Interfaces seamlessly with all ceiling types
- Compact frame (104 mm) allows installation in most acoustic suspended ceiling voids
- Supports variable void depths
- Elastomeric soundstop extends beneath the metal clip, preventing the rod from making contact, thereby avoiding a short circuit and direct contact 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-S75	001983	24	5.64	23 x 15 x 17.3
Stravilink DCH-S150	001984	24	6.06	23 x 15 x 17.3
Stravilink DCH-S230	001985	24	5.40	23 x 15 x 17.3
Stravilink DCH-S340	001986	24	6.72	23 x 15 x 17.3
Stravilink DCH-S455	001987	24	6.90	23 x 15 x 17.3

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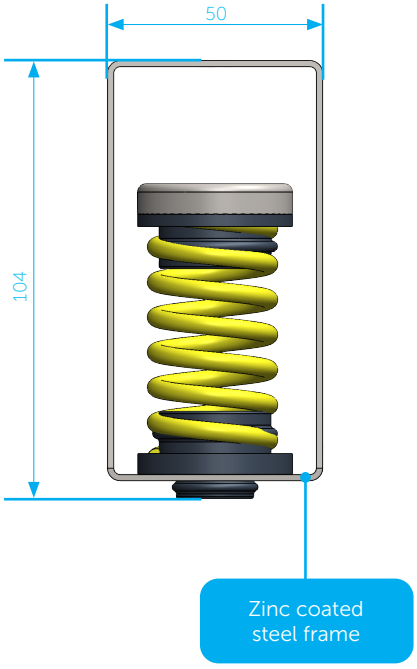
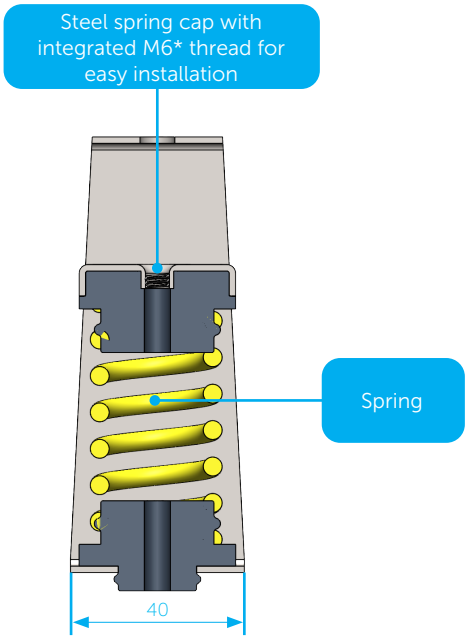
PHYSICAL & MECHANICAL PROPERTIES

Model	Design Load		Resonance Frequency at Design Load	Load Range (per Hanger)		Spring Colour
	kg	N	Hz	kg	N	
Stravilink DCH-S75	7.5	75	< 4	4 - 14.5	40 - 145	Light Ivory
Stravilink DCH-S150	15	150	< 4	7.5 - 24	75 - 240	Zinc Yellow
Stravilink DCH-S230	23	230	< 4	11.5 - 31.5	115 - 315	Sky Blue
Stravilink DCH-S340	34	340	< 4	17 - 44	170 - 440	Silver Grey
Stravilink DCH-S455	45.5	455	< 4	23 - 59	230 - 590	Pearl Night Blue

Notes:
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.

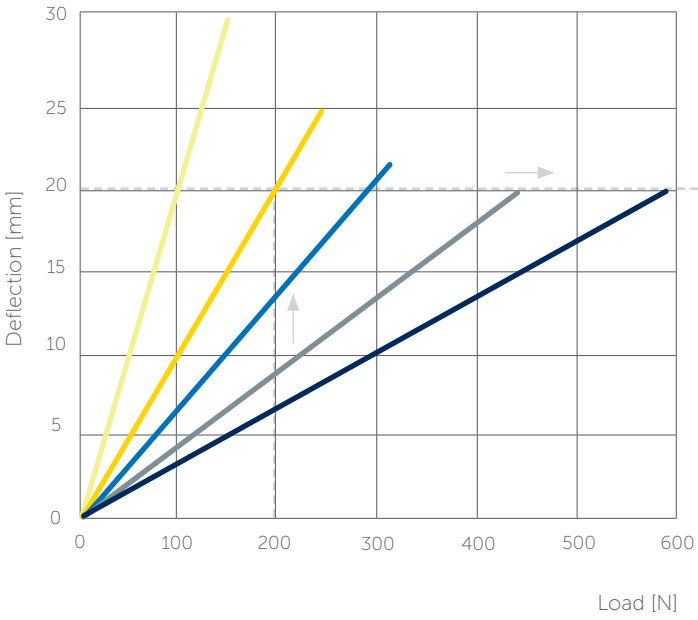




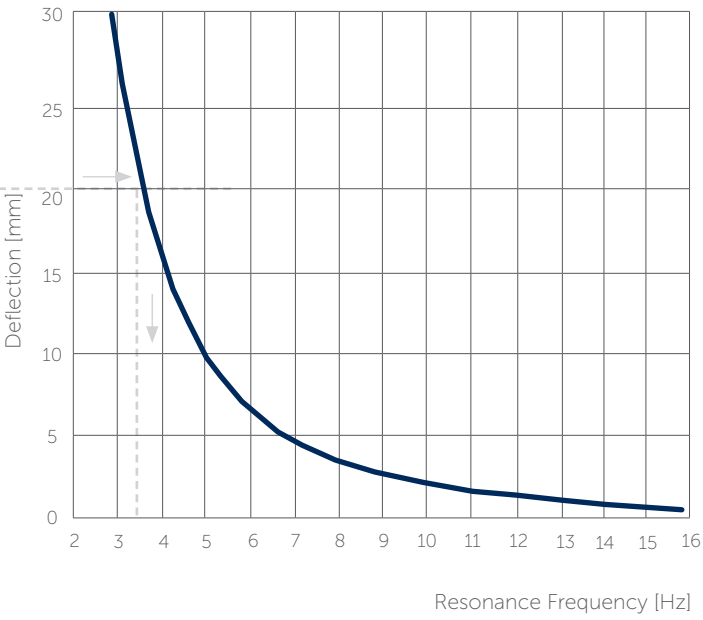
Notes:
All dimensions in milimeters (mm).
*Available in M8, upon request.

PERFORMANCE GRAPHS

Deflection as Function of Load



Relationship between Deflection and Resonance Frequency



Stravilink DCH-S75 Stravilink DCH-S150 Stravilink DCH-S230 Stravilink DCH-S340 Stravilink DCH-S455

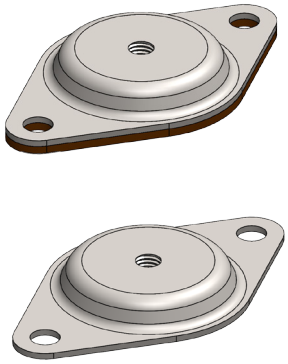
The resonance frequency of a Stravilink hanger can be determined by its load. To start the calculation use the graph "deflection as function of load" this will provide the deflection at the specified load. Then moving horizontally to the right hand side plot "deflection as function of frequency" on which the corresponding resonance frequency can be found. As an example, the resonance frequency of a Stravilink DCH-S150 loaded with 200 N is determined. The corresponding deflection is 20 mm. The resonance frequency of a spring at 20 mm deflection is 3.5 Hz.

ACCESSORIES

Perimeter Strip

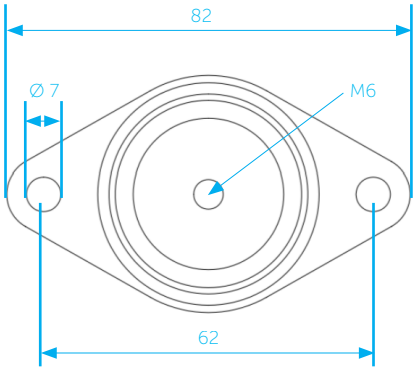
1. Self-adhesive perimeter strip 10 mm thick to isolate the ceiling from the adjacent walls.

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



M6 anchor plate

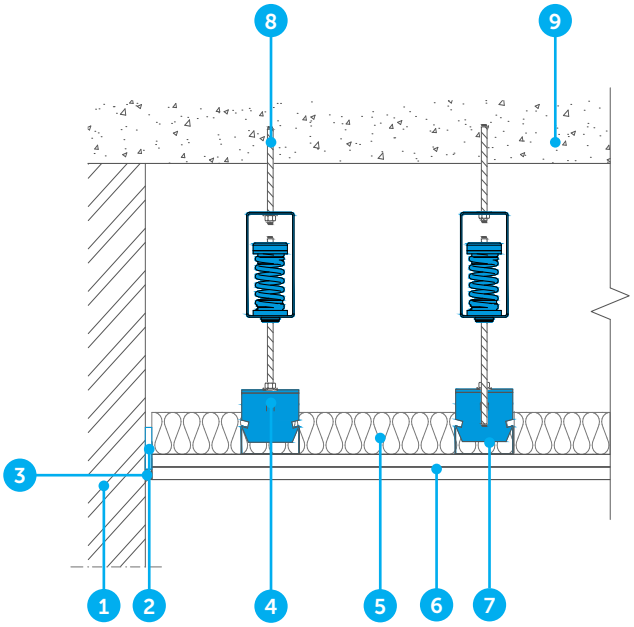
Available with (for settlement on rough surfaces) or without rubber (2 mm)
Material: DX51D+S275



Note: All dimensions in milimeters (mm).

TYPICAL ASSEMBLIES

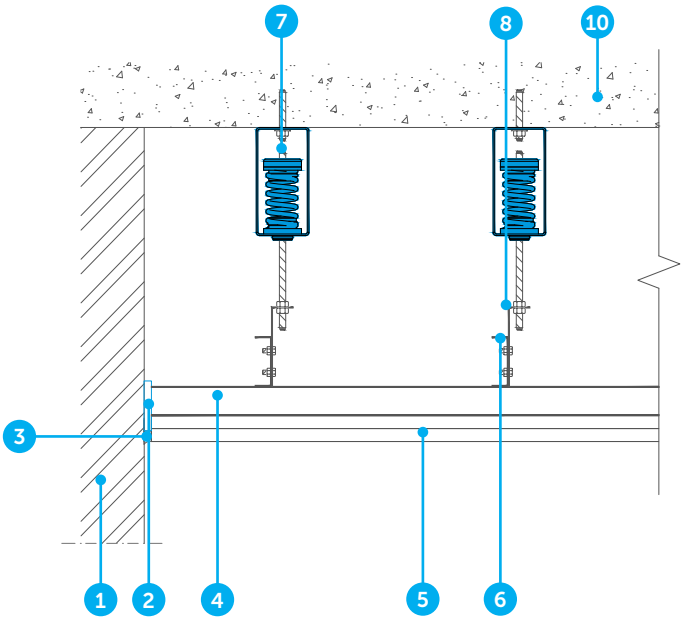
47/60 mm channel



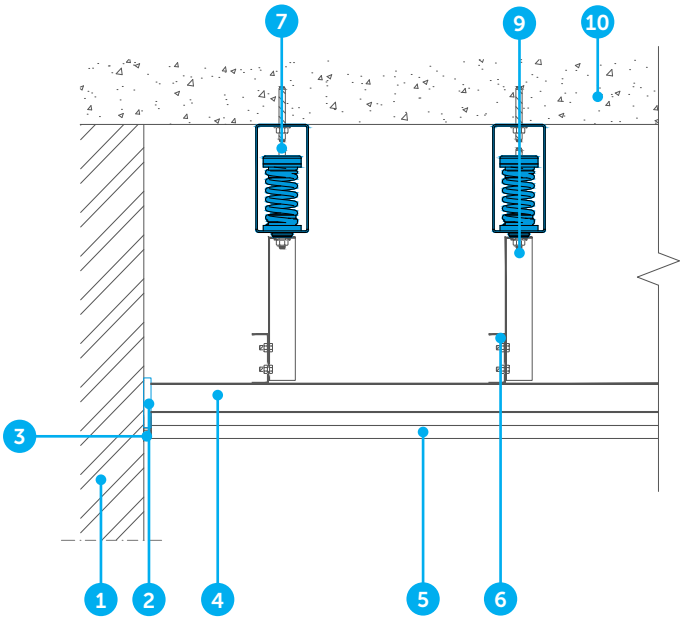
1. Wall
2. Perimeter Strip
3. Elastic caulk
4. C Clip
5. Absorption layer
6. Plasterboards, gypsum board or dry lining
7. 47/60 mm channel
8. Stravilink DCH-S
9. Concrete Slab

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-S
8. Pre-formed angle bracket
9. British gypsum FEA1 angle
10. Concrete Slab

DISCLAIMER

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