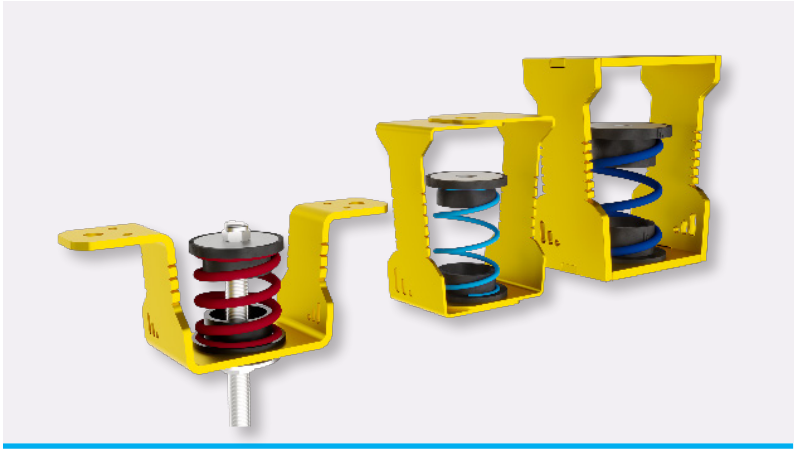


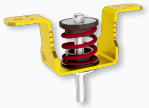
stravilink
by CDM Stravitec

SCAN ME

Scan here for access to solution website page for other documents

# Stravilink ICH-S
## Datasheet

Stravilink ICH-S is an Isolated Ceiling Hanger with Springs engineered to acoustically decouple suspended ceilings and mechanical equipment from vertically stacked rooms. Combining engineered springs with a range of frame options, it provides a custom-fit solution for light suspended ceilings and heavy mechanical equipment, accommodating different mounting requirements, interface conditions, and available space.

| |  Stravilink ICH-S Low Profile |  Stravilink ICH-S Light Frame |  Stravilink ICH-S Heavy Frame |
|---|---|---|---|
| Load Range [kg (lbs)] | 2.5-100 (6-225) | 2.5-100 (6-225) | 44.5-367 (67-875) |
| Min. Void Depth [mm (inch)] | 150 (6) | 201 (7-7/8) | 255 (10) |

The Stravilink ICH-S naming convention follows this logic:

- Design Load: Append the spring design load in lbs (e.g., Stravilink ICH-S100 for 100 lbs).
- Low Profile Frame: Add -LP to the end if a low profile frame is used (e.g., Stravilink ICH-S100-LP).
- Result: Stravilink ICH-S + [Spring Load] + [Optional -LP Suffix]

For the different spring possibilities, see page 3.

## BENEFITS

### FOR INSTALLERS

Time & Labor Savings:
- Can come pre-assembled (channel clip, eye bolt) making on-site installation easier and faster
- Can come pre-compressed, to limit the deflection, and to make levelling straightforward
- Stravilink ICH-S-LP always comes with springs pre-compressed at 75 % of design load, with a rod and channel clip or with eye bolt

Installation Ease:
- Swing tolerance of up to 30º to ease the installation process

Versatility:
- Install on various structures, including concrete and cross-laminated timber (CLT) slabs, reducing the need for multiple product types
- Use your preferred mounting method (direct mounting, rod suspension or wire suspension)
- Use your preferred interface (cold-rolled channel/furring channel or drywall grid)

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## FOR SPECIFIERS

Guaranteed Acoustical Performance:

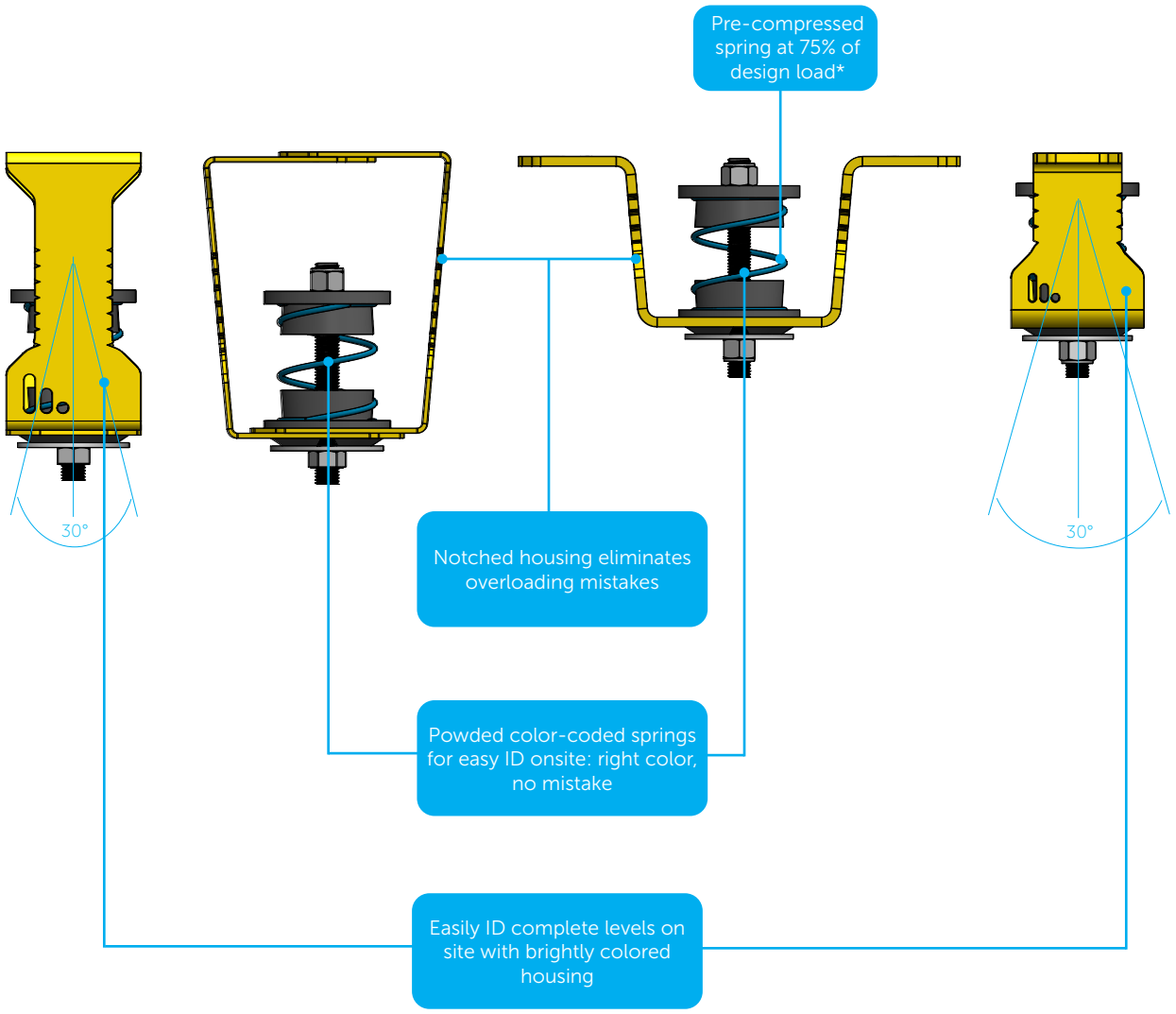
- The 25 mm (1") deflection spring delivers 3.1 Hz resonance frequency at design load
- Wide range of springs available, covering load conditions from from 6 lbs (25 N) to 875 lbs (3,670 N)
- Acoustical performance guaranteed even with misalignments, since it has a swing tolerance of up to 30º and rubber gasket prevents the rod from short-circuiting with the frame

Flexible Design:

- Flexible void options starting from 150 mm (6"), for limited space or increased performance
- Install on various structures, including concrete and CLT slabs, reducing the need for multiple product types

Safety:

- All springs have a minimum 70% travel from design deflection to overload condition, providing extra safety in design




* By default, for Stravilink ICH-S-LP (low profile). Pre-compression available upon request for other variants, to limit the deflection, and to make levelling straightforward.

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## PHYSICAL & MECHANICAL PROPERTIES

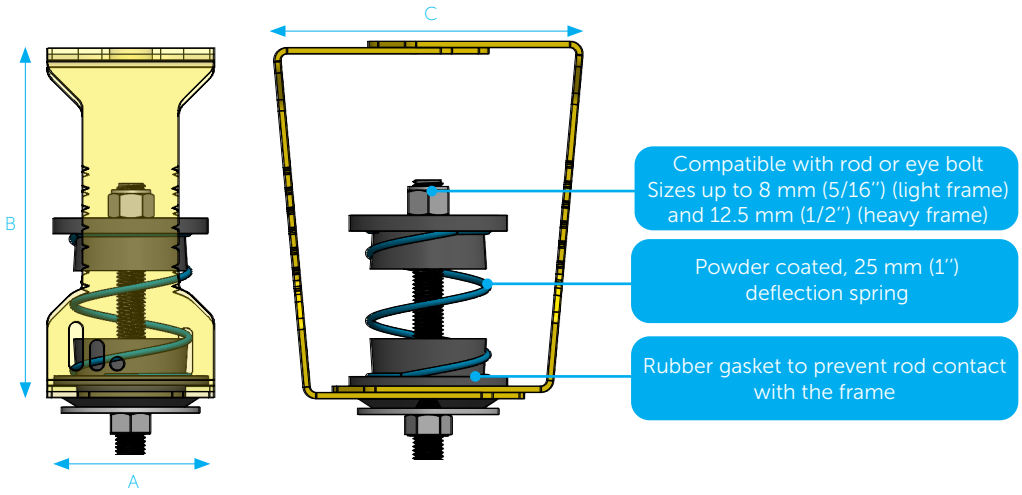
| Model | Frame Type | | | Design Load at 25 mm (1") Deflection | | Load Range | | Spring Color |
|---|---|---|---|---|---|---|---|---|
| | Light | Heavy | Low Profile | lbs | N | lbs | N | |
| ICH-S12 | ● | | ● | 12 | 55 | 6-20 | 25-80 | Light Ivory |
| ICH-S18 | ● | | ● | 18 | 80 | 9-25 | 40-120 | Pastel Green |
| ICH-S24 | ● | | ● | 24 | 105 | 12-35 | 50-160 | Light Green |
| ICH-S30 | ● | | ● | 30 | 135 | 15-45 | 70-200 | Grey Beige |
| ICH-S40 | ● | | ● | 40 | 180 | 20-60 | 90-265 | Light Blue |
| ICH-S50 | ● | | ● | 50 | 220 | 25-75 | 110-330 | Pearl Violet |
| ICH-S75 | ● | | ● | 75 | 335 | 35-110 | 165-500 | Heather Violet |
| ICH-S100 | ● | | ● | 100 | 445 | 50-150 | 225-665 | Purple Red |
| ICH-S150 | ● | | ● | 150 | 665 | 50-225 | 335-1000 | Traffic Yellow |
| ICH-S200 | | ● | | 200 | 890 | 67-300 | 445-1335 | Curry |
| ICH-S250 | | ● | | 250 | 1110 | 85-375 | 555-1670 | Mint Green |
| ICH-S350 | | ● | | 350 | 1560 | 118-525 | 780-2340 | Orange Brown |
| ICH-S450 | | ● | | 450 | 2000 | 151-675 | 1000-3000 | Pearl Night Blue |
| ICH-S550 | | ● | | 550 | 2450 | 195-875 | 1225-3670 | Anthracite Grey |

Notes:
(1) All springs have minimum additional travel to solid equal to 70% of design deflection.
(2) Admissible load of steel elements of models ICH-S12 to ICH-S150: 425 lbs (1,890 N), according to N_EN 13964:2014 (tested until failure). Admissible load of steel elements of models ICH-S200 to ICH-S550: 1,428 lbs (6,350 N), according to N_EN 13964:2014 (tested until 100 mm (4") deformation due to testing equipment limitations).
(3) Products are suited up to a C2 environment (atmosphere with little or no degree of pollution) according to ISO12944.
(4) The temperature range of use is between -30°C and 70°C.

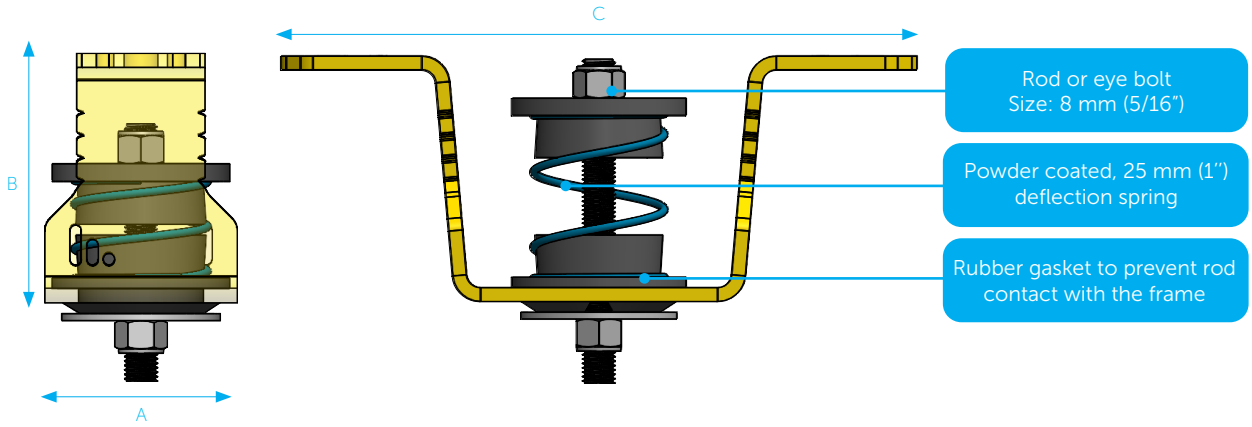
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## PHYSICAL & MECHANICAL PROPERTIES

### LIGHT/HEAVY FRAME



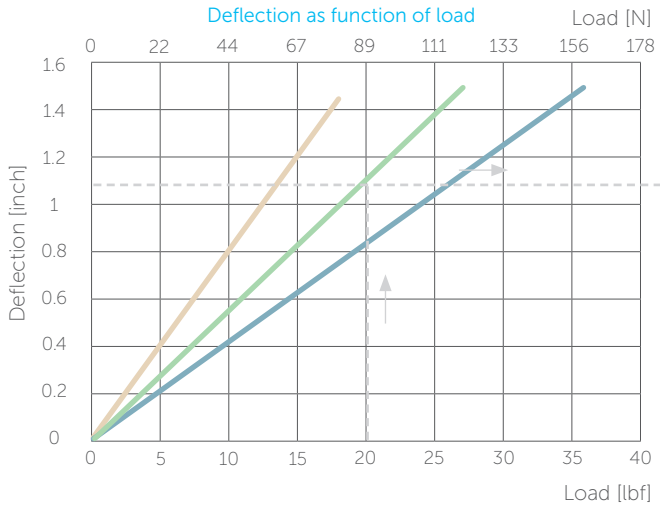

### LOW PROFILE

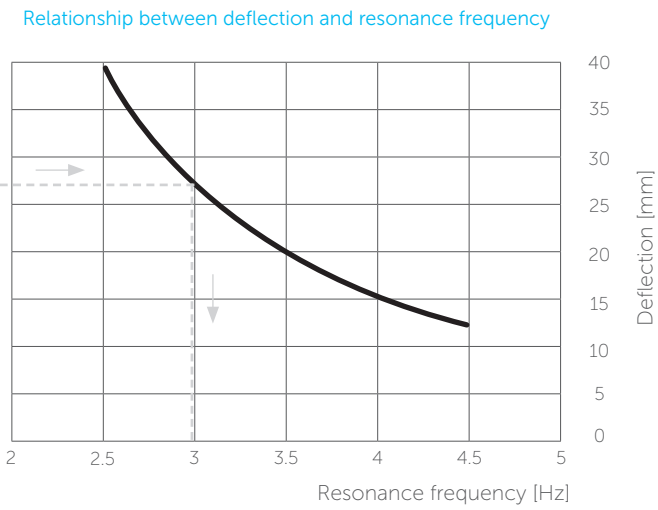


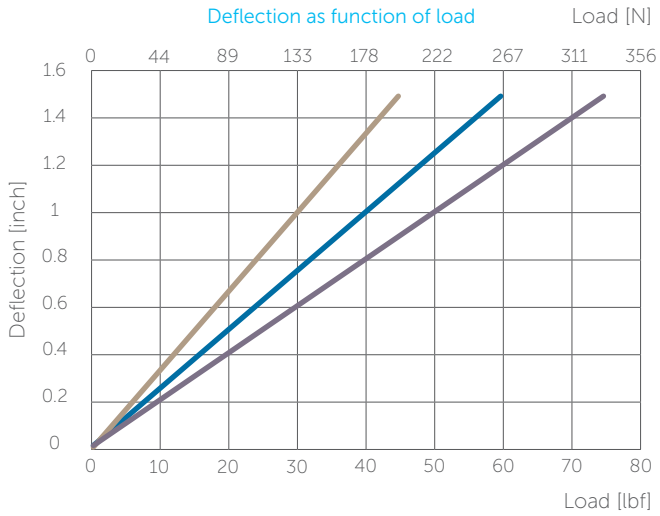

| | Length (A) | | Height (B) | | Width (C) | |
|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm |
| Light Frame | 2-1/8 | 54 | 4-9/16 | 116 | 3-7/8 | 98 |
| Heavy Frame | 2-9/16 | 65 | 5-15/16 | 150 | 5-1/8 | 130 |
| Low Profile Frame | 7-1/8 | 182 | 2-3/4 | 70 | 2-1/8 | 54 |

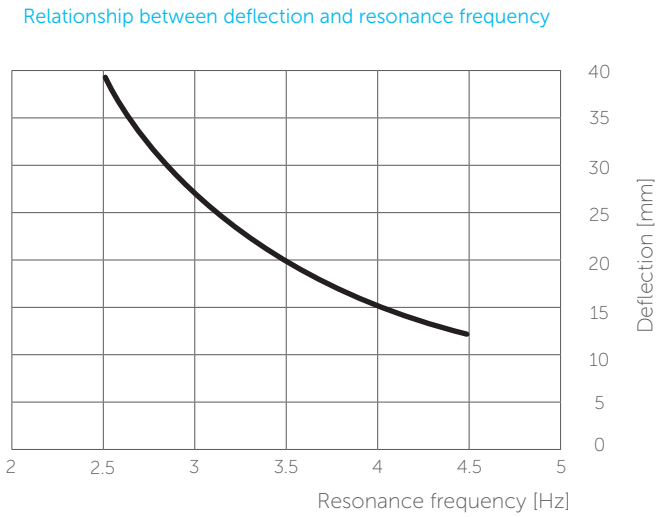
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## SPRING PERFORMANCE



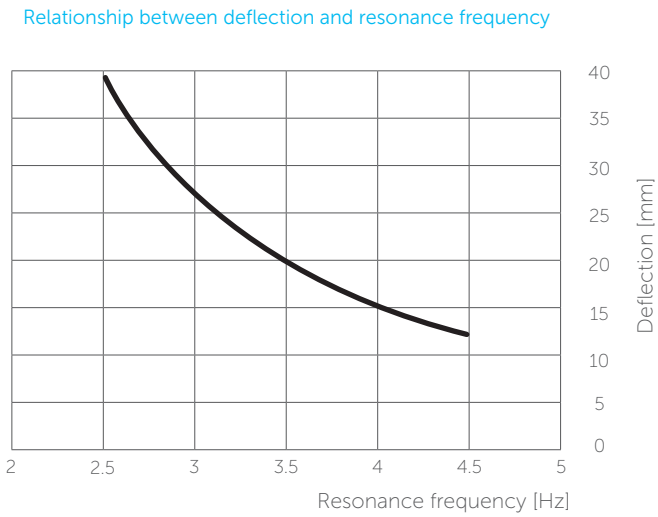







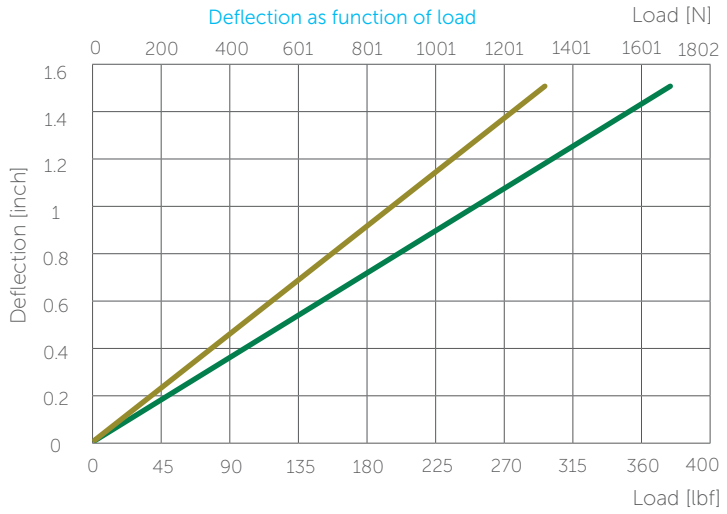


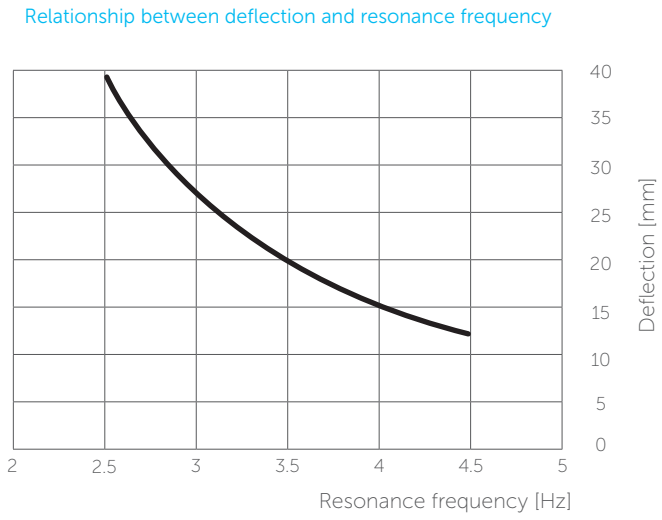

ICH-S12 ICH-S18 ICH-S24 ICH-S30 ICH-S40 ICH-S50 ICH-S75 ICH-S100 ICH-S150

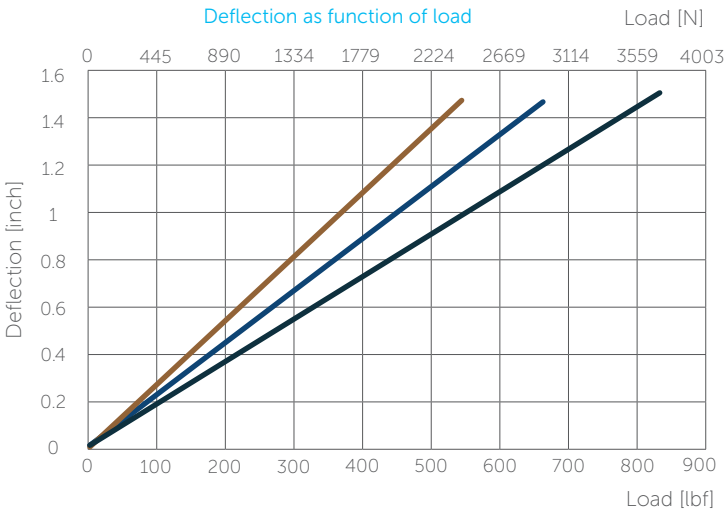
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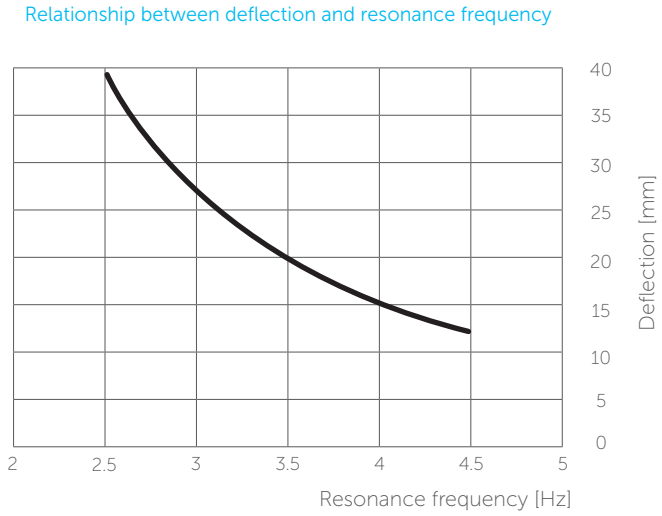
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## SPRING PERFORMANCE



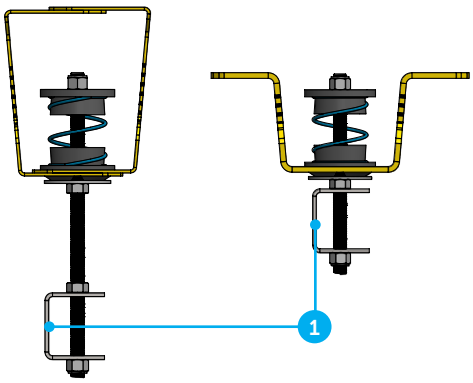




ICH-S200 ICH-S-250 ICH-S350 ICH-S450 ICH-S550

The resonance frequency of a Stravilink ICH-S 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 ICH-S-18 loaded with 89 N (20 lbs) is determined. The corresponding deflection is 28 mm (1-1/8"). The resonance frequency of a spring at 28 mm (1-1/8") deflection is 3 Hz.

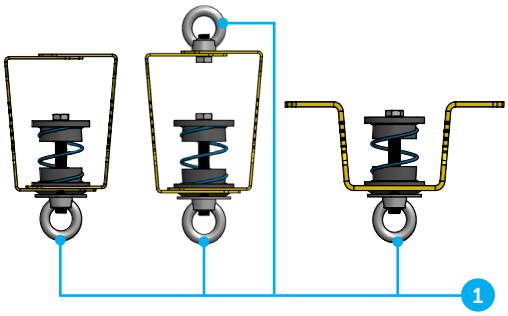
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## ACCESSORIES



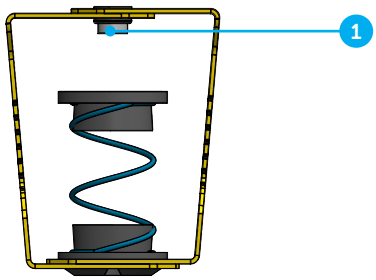

### Channel Clip

1. Cold-rolled channel clip: available with hole size ø 10 mm (0.39") or 14 mm (0.53") for 8 mm (3/8") or 13 mm (1/2") diameter rod respectively.



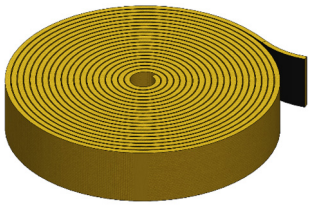

### Eye Bolt

1. Eye bolt with an inner diameter of 20 mm (13/16"), for wire suspension.




### Rivnut

1. Internal thread to directly screw the hanger onto the rod.



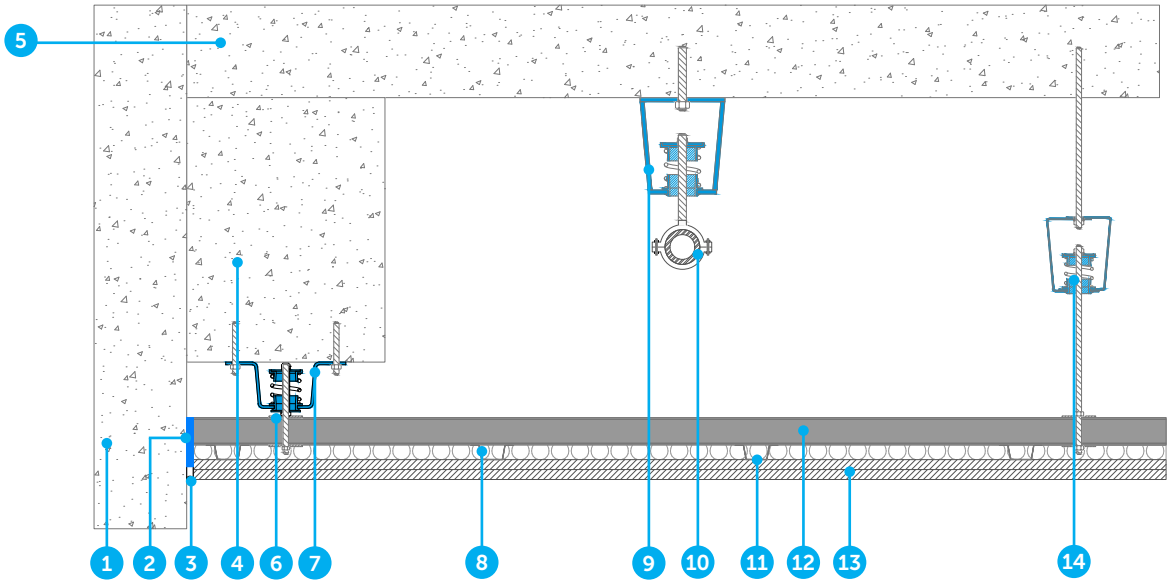
### Perimeter Strip

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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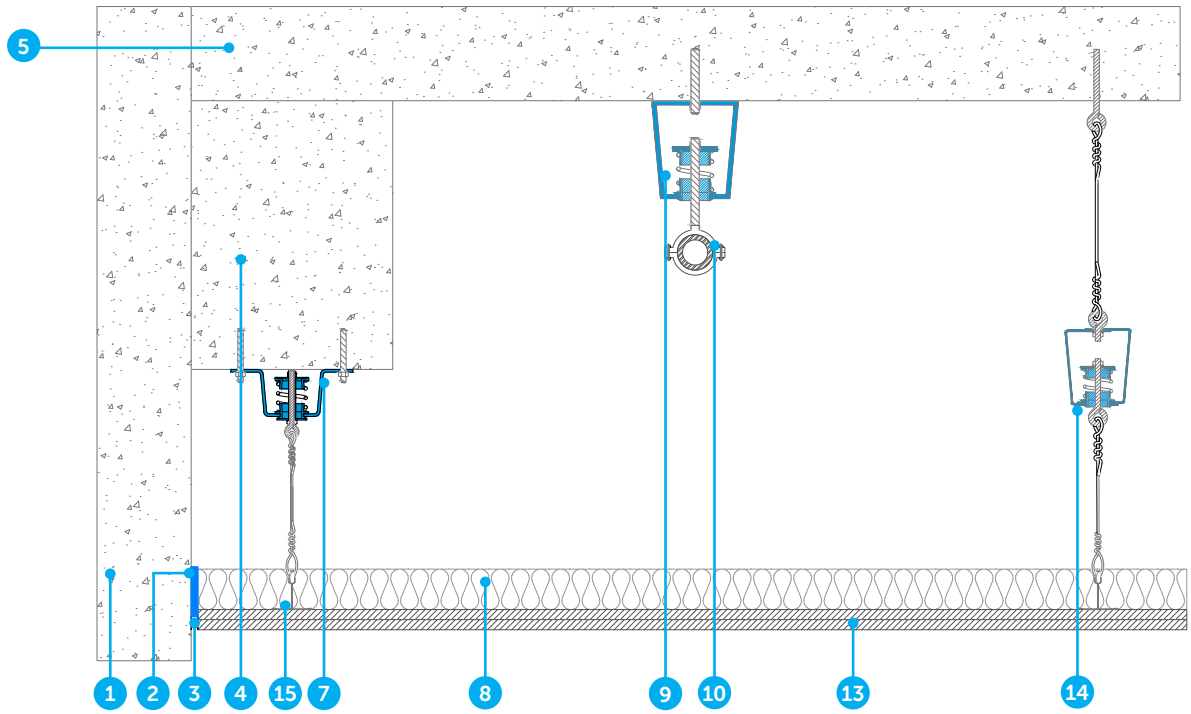
## TYPICAL ASSEMBLIES

Stravilink ICH-S Variants on a CRC + Furring Channel Interface




1. Wall
2. Perimeter Strip
3. Elastic Caulk
4. Beam
5. Structural slab
6. Channel clip
7. Stravilink ICH-S-LP
8. Batt insulation
9. Stravilink ICH-S (Heavy Frame)
10. Pipe
11. Furring channel
12. Cold-rolled channel
13. Plasterboards, gypsum board or dry lining
14. Stravilink ICH-S (Light Frame)
15. Drywall grid

Stravilink ICH-S Variants on a Drywall Grid Interface




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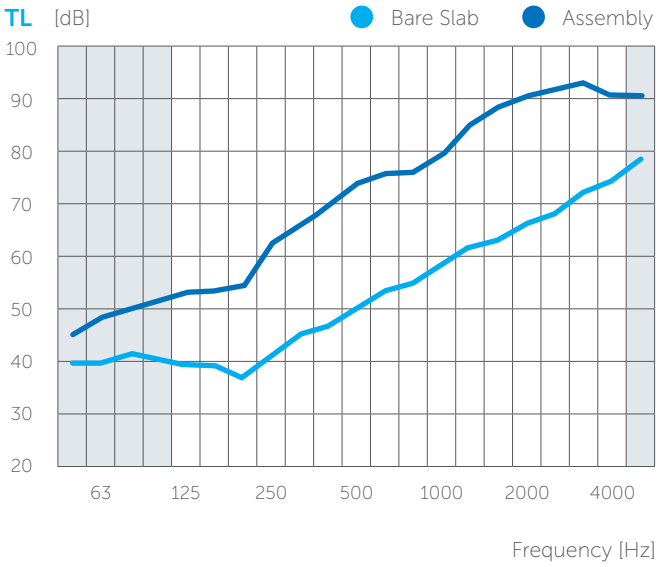
## Test Setup

1. 150 mm (6") precast concrete slab
2. Stravilink ICH-S
3. 19 mm x 38 mm (3/4" x 1.5") cold-rolled channels
4. 22 mm (7/8") metal furring channels, perpendicular to the cold-rolled channels
5. 75 mm (3") thick fiberglass batts in cavity
6. 2 layers of 16 mm (5/8") Type X gypsum board

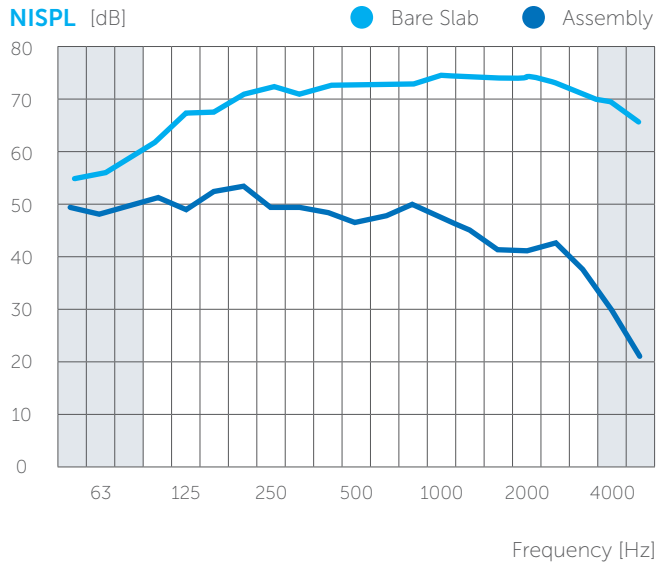
| Setup | IIC | STC |
|---|---|---|
| Assembly | 60 | 73 |
| Bare Slab | 29 | 53 |

Laboratory report available upon request
NRC Test Report A1-021983-3

| Frequency [Hz] | Airborne TL [dB] | |
|---|---|---|
| | Bare Slab | Assembly |
| 50 | 39 | 45 |
| 63 | 39 | 49 |
| 80 | 41 | 50 |
| 100 | 40 | 52 |
| 125 | 39 | 53 |
| 160 | 39 | 54 |
| 200 | 37 | 55 |
| 250 | 41 | 63 |
| 315 | 45 | 66 |
| 400 | 47 | 70 |
| 500 | 50 | 74 |
| 630 | 53 | 76 |
| 800 | 55 | 77 |
| 1000 | 58 | 80 |
| 1250 | 61 | 85 |
| 1600 | 63 | 89 |
| 2000 | 66 | 91 |
| 2500 | 68 | 92 |
| 3150 | 72 | 93 |
| 4000 | 74 | 91 |
| 5000 | 78 | 91 |




| Frequency [Hz] | NISPL [dB] | |
|---|---|---|
| | Bare Slab | Assembly |
| 50 | 55 | 49 |
| 63 | 56 | 48 |
| 80 | 59 | 50 |
| 100 | 62 | 51 |
| 125 | 67 | 49 |
| 160 | 68 | 53 |
| 200 | 71 | 53 |
| 250 | 72 | 49 |
| 315 | 71 | 49 |
| 400 | 73 | 48 |
| 500 | 73 | 47 |
| 630 | 73 | 48 |
| 800 | 73 | 50 |
| 1000 | 74 | 48 |
| 1250 | 74 | 45 |
| 1600 | 74 | 41 |
| 2000 | 74 | 41 |
| 2500 | 73 | 43 |
| 3150 | 71 | 38 |
| 4000 | 69 | 30 |
| 5000 | 65 | 21 |




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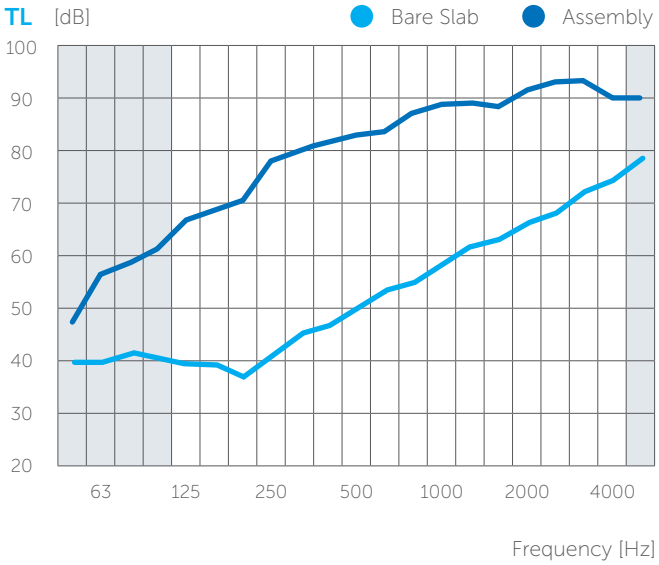
## Test Setup

1. 100 mm (4") precast concrete slab
2. 19 mm (3/4") plywood
3. 50 mm (2") isolator (Stravifloor Mount), spaced 610 mm (24") o.c.
4. 38 mm (1.5") thick fiberglass batts in cavities
5. 150 mm (6") precast concrete slab
6. Stravilink ICH-S
7. 19 mm x 38 mm (3/4" x 1.5") cold-rolled channels
8. 22 mm (7/8") metal furring channels, perpendicular to the cold-rolled channels
9. 75 mm (3") thick fiberglass batts in cavity
10. 2 layers of 16 mm (5/8") Type X gypsum board

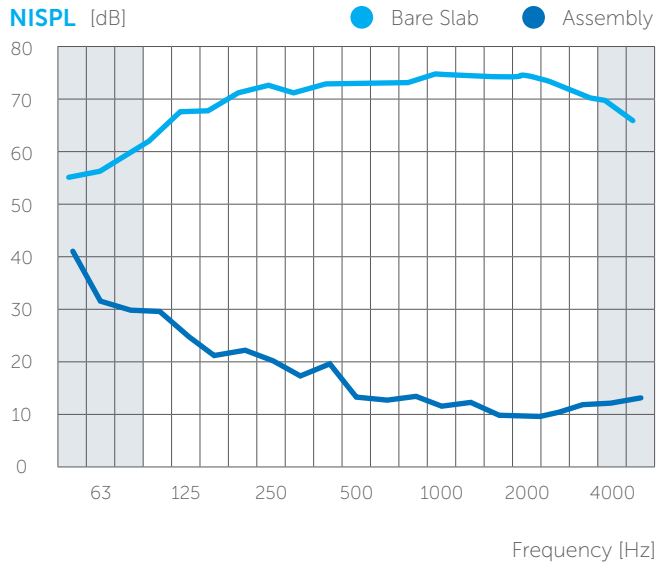
| Setup | IIC | STC |
|---|---|---|
| Assembly | 88 | 86 |
| Bare Slab | 29 | 53 |

Laboratory report available upon request
NRC Test Report A1-021983-4

| Frequency [Hz] | Airborne TL [dB] | |
|---|---|---|
| | Bare Slab | Assembly |
| 50 | 39 | 47 |
| 63 | 39 | 56 |
| 80 | 41 | 59 |
| 100 | 40 | 61 |
| 125 | 39 | 66 |
| 160 | 39 | 69 |
| 200 | 37 | 70 |
| 250 | 41 | 78 |
| 315 | 45 | 80 |
| 400 | 47 | 81 |
| 500 | 50 | 83 |
| 630 | 53 | 83 |
| 800 | 55 | 87 |
| 1000 | 58 | 89 |
| 1250 | 61 | 89 |
| 1600 | 63 | 88 |
| 2000 | 66 | 91 |
| 2500 | 68 | 93 |
| 3150 | 72 | 93 |
| 4000 | 74 | 90 |
| 5000 | 78 | 90 |




| Frequency [Hz] | NISPL [dB] | |
|---|---|---|
| | Bare Slab | Assembly |
| 50 | 55 | 41 |
| 63 | 56 | 31 |
| 80 | 59 | 30 |
| 100 | 62 | 29 |
| 125 | 67 | 25 |
| 160 | 68 | 21 |
| 200 | 71 | 22 |
| 250 | 72 | 20 |
| 315 | 71 | 17 |
| 400 | 73 | 20 |
| 500 | 73 | 13 |
| 630 | 73 | 13 |
| 800 | 73 | 13 |
| 1000 | 74 | 11 |
| 1250 | 74 | 12 |
| 1600 | 74 | 10 |
| 2000 | 74 | 10 |
| 2500 | 73 | 10 |
| 3150 | 71 | 12 |
| 4000 | 69 | 12 |
| 5000 | 65 | 13 |




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## DISCLAIMER

The documentation prepared by CDM Stravitec (including but not limited to installation guidelines) contain generally accepted procedures for a successful installation of Stravilink ICH-S 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 ICH-S for acoustically isolated ceiling hangers. It should be noted that any loading information contained herein represent the loading information for the Stravilink ICH-S 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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