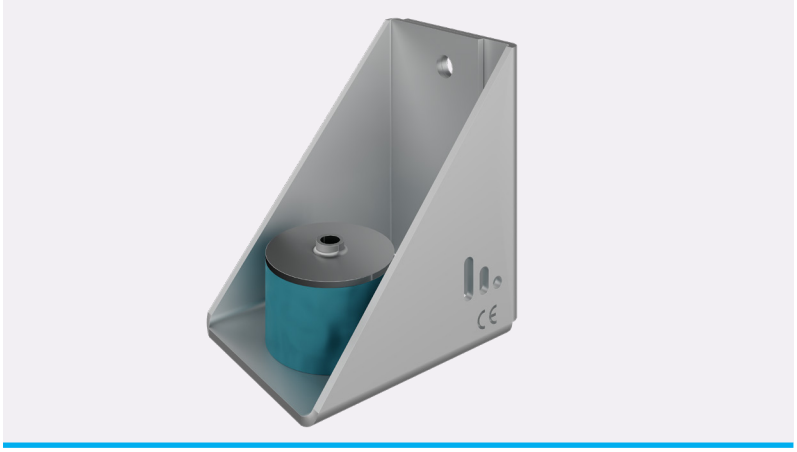

stravilink
by CDM Stravitec

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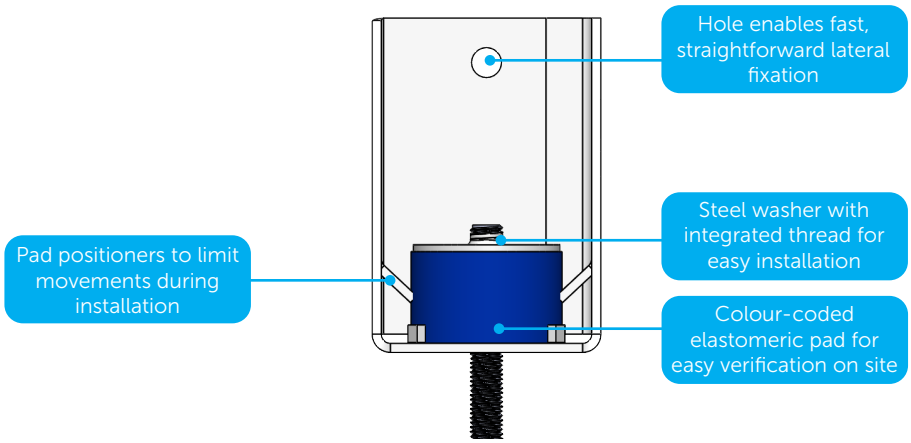
Stravilink IJH-P
Datasheet

Stravilink IJH-P is an Isolation Joist Hanger with elastomeric Pads, designed to support suspended ceiling systems of joist structural floors, optimizing sound insulation between vertically stacked rooms.

FEATURES

- Side-mounted zinc-plated steel angle, gusseted for enhanced resistance to bending
- Ideal for lateral fixation
- Equipped with elastomeric pads featuring a natural frequency ≤ 14 Hz at design load
- Available in different elastomeric pads options, supporting loads from 10 to 53 kg
- Colour-coded elastomeric pads are available for different load ranges, making it easy to verify on-site that the correct hanger is used
- Includes a steel washer with integrated thread, compatible with standard drop rod ceiling systems
- Elastomeric pad positioners integrated into the frame ensure no movement during installation
- Interfaces seamlessly with all ceiling types
- Accommodates variable void depths
- Easy positioning
- Simple and fast installation process



PACKAGING

Model	Reference	Quantity per Box	Weight per Box [kg]	Dimension of Box [cm]
Stravilink IJH-P214	000532	50	12	28 x 18 x 17
Stravilink IJH-P425	000533	50	12	28 x 18 x 17

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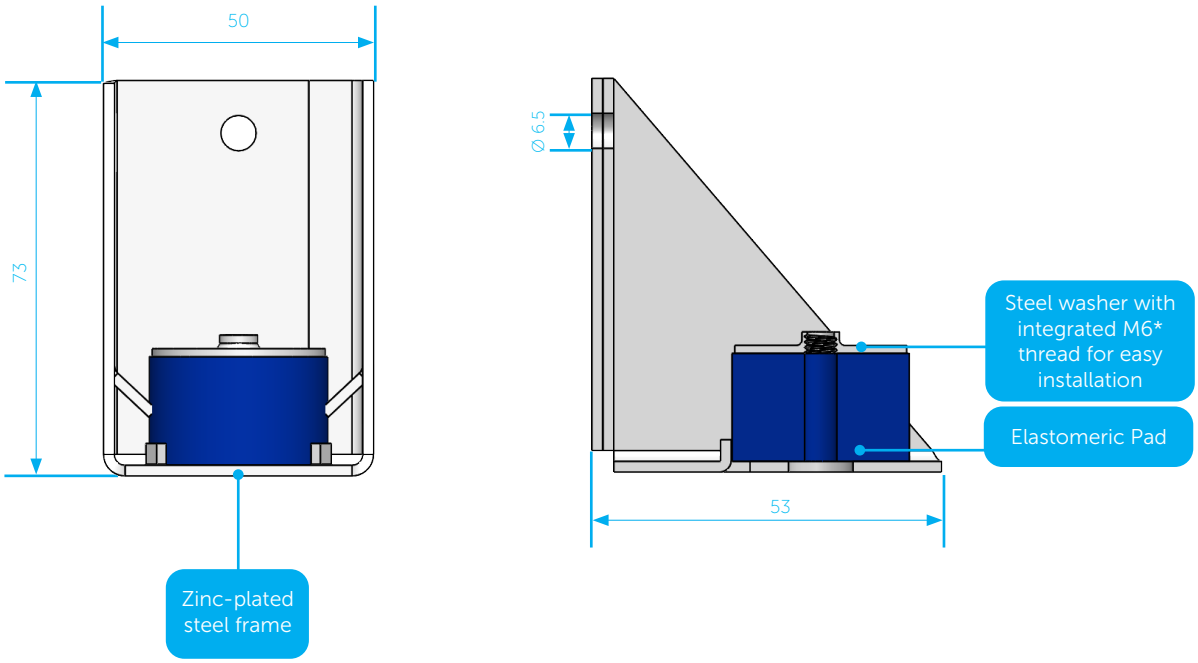
PHYSICAL & MECHANICAL PROPERTIES

Model	Design Load		Resonance Frequency at Design Load	Load Range (per Hanger)		Pad Colour
	kg	N	Hz	kg	N	
Stravilink IJH-P214	21.4	214	12.5	10-26.7	100-267	Orange
Stravilink IJH-P425	42.5	425	12	20-53	200-530	Blue

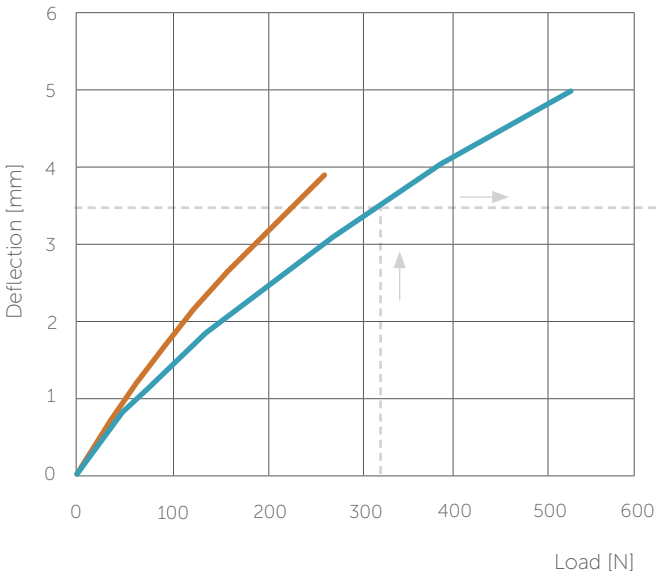
Notes:
Admissible load of steel elements: 532 N.
Products are suited up to a C2 environment (atmosphere with little or no degree of pollution).
The temperature range of use is between -30°C and 70°C.
To assess which type is appropriate the following information is needed:
1) The weight and construction of the supported element or structure - this will determine the type of hanger;
2) The weights and support locations of any items hung from the ceiling or other supported structure.



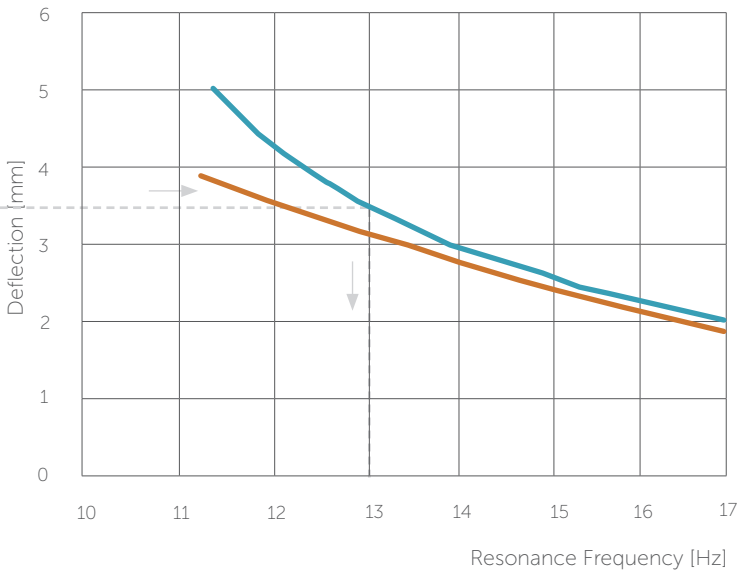
Notes:
All dimensions in milimeters (mm).
*Available in M8 upon request.

PERFORMANCE GRAPHS

Deflection as Function of Load



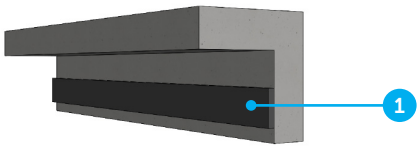
Relationship between Deflection and Resonance Frequency



Stravilink IJH-P214 Stravilink IJH-P425

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 IJH-P425 loaded with 330 N is determined. The corresponding deflection is 3.5 mm. The resonance frequency of a spring at 3.5 mm deflection is 13 Hz.

ACCESSORIES



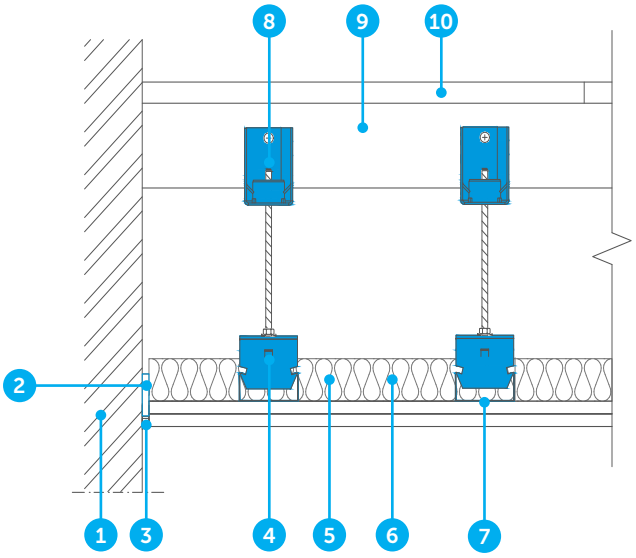
Perimeter Strip

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.

TYPICAL ASSEMBLIES

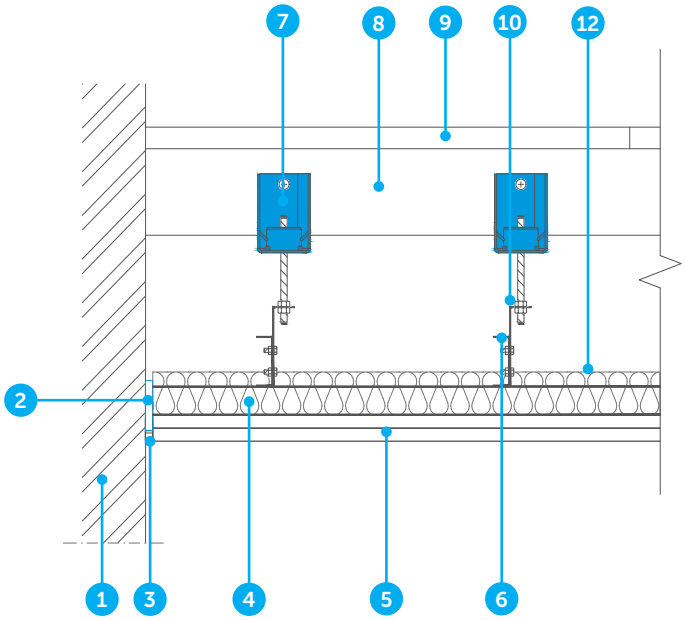
C channel



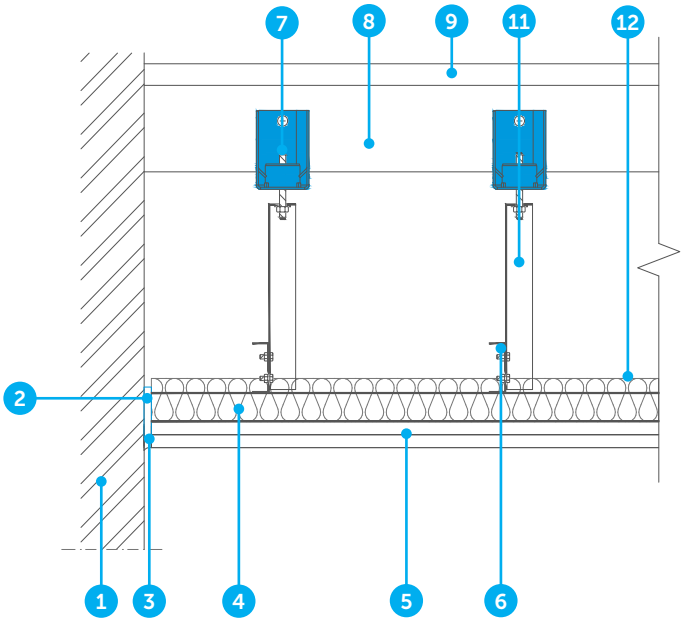
1. Wall
2. Perimeter Strip
3. Elastic caulk
4. C clip
5. Absorption layer
6. Plasterboards, gypsum board or dry lining
7. 47/60 mm channel
8. Stravilink IJH-P
9. Wooden Joist
10. Wooden board

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 IJH-P
8. Wooden Joist
9. Wooden board
10. Pre-formed angle bracket
11. British gypsum fea1 angle
12. Absorption layer

ACOUSTIC RESULTS

Test Setup 1

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

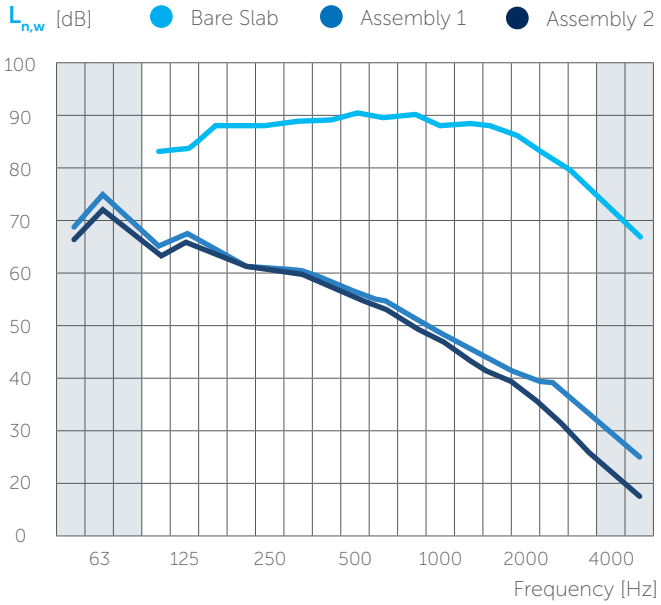
Test Setup 2

1. 18 mm OSB board
2. Wooden joists (63 x 178 mm)
3. Stravilink IJH-P
4. 100 mm mineral wool
5. Gypsum boards (2x 12.5 mm w/ 3 mm Damping Layer)

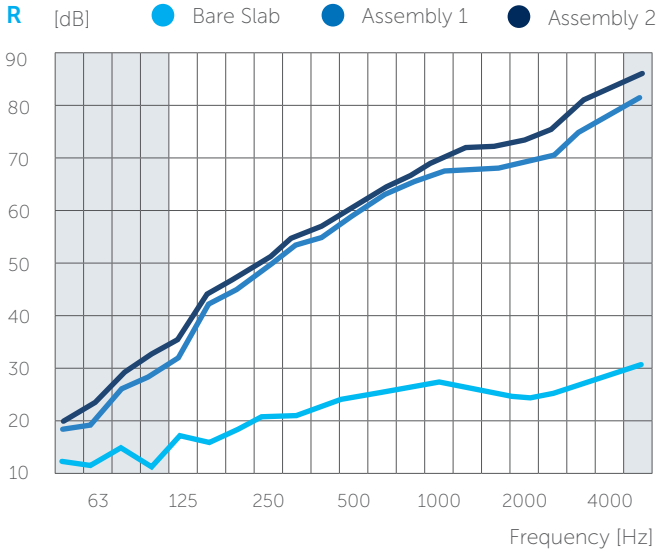
Setup	$L_{n,w}$ (C_i)	ΔL_w (C_i)	R (C,C_{tr})
Assembly 1	**57 (0)**	30 (-4)	**58 (-5, -12)**
Bare Slab	90 (-6)		26 (-1, -3)
Assembly 2	**56 (0)**	30 (-3)	**60 (-3,-10)**

Laboratory report available upon request
Setup 1: test report number AC5973 & AC5963
Setup 2: test report number AC5972 & AC5962

Frequency [Hz]	$L_{n,w}$ [dB]		
	Bare Slab	Assembly 1	Assembly 2
50		68,6	65,9
63		74,6	71,9
80		69,8	67,8
100	82,7	64,9	63,1
125	83,3	67,4	65,4
160	87,3	64,4	63,1
200	87,4	61,3	61,1
250	87,8	60,9	60,9
315	88,7	60,3	59,9
400	88,8	58,8	57,9
500	90,1	55,9	55,1
630	89,2	54,5	53,0
800	89,5	51,0	49,4
1000	88,2	48,5	46,8
1250	88,0	45,5	43,3
1600	86,8	42,7	40,3
2000	84,7	40,1	37,3
2500	81,1	38,6	32,4
3150	76,7	33,9	26,7
4000	72,0	29,6	21,4
5000	66,6	24,8	17,5



Frequency [Hz]	R [dB]		
	Bare Slab	Assembly 1	Assembly 2
50	12,3	18,3	19,7
63	12,1	19,4	23,0
80	15,2	26,3	29,0
100	11,2	28,4	32,8
125	17,1	32,3	35,6
160	15,7	41,9	44,5
200	18,9	45,0	46,9
250	20,9	49,1	50,8
315	21,0	53,0	54,8
400	22,9	54,8	57,0
500	24,5	59,2	60,3
630	25,6	62,4	63,7
800	26,6	64,7	66,3
1000	27,7	67,0	69,7
1250	26,5	67,9	71,6
1600	25,1	67,8	72,1
2000	24,3	69,0	72,9
2500	24,9	70,2	75,3
3150	26,7	74,8	80,1
4000	28,7	78,2	82,7
5000	31,0	81,1	85,6



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

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