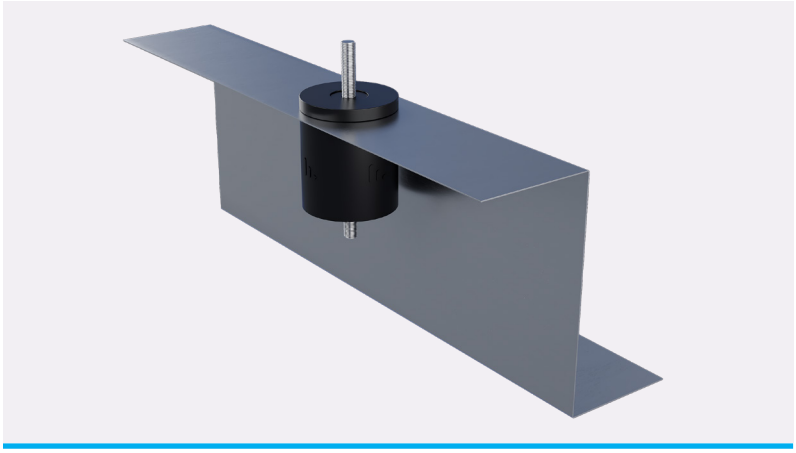


stravilink
by CDM Stravitec

SCAN ME

Scan here for access to solution website page for other documents

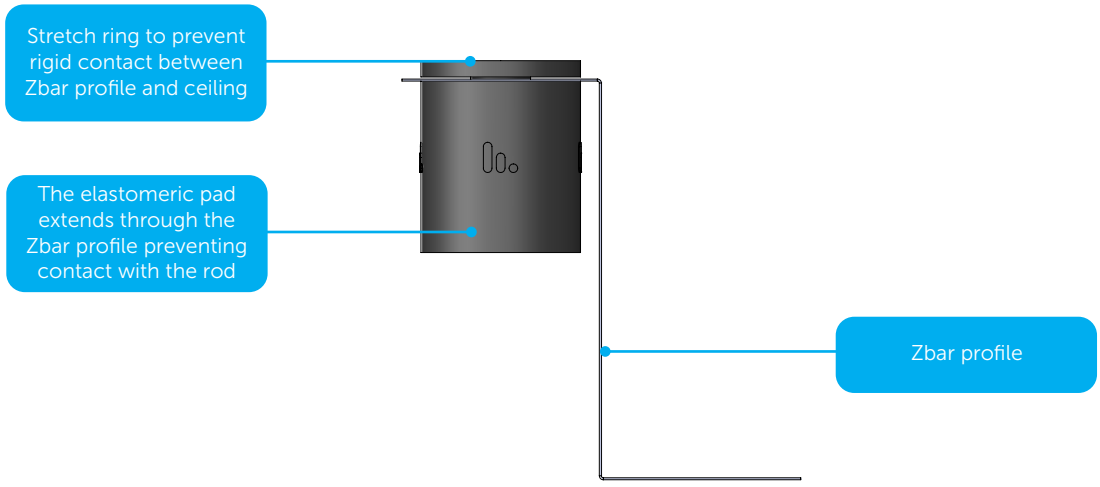
Stravilink Zbar
Datasheet

Stravilink Zbar is a frameless, low-profile resilient fixation system for acoustic ceilings that isolates the primary ceiling structure (Zbar profile) from the structure.

It is a streamlined resilient fixation system designed for ceilings with void depth from 4'' (102 mm). Stravilink Zbar solution is used to isolate acoustical ceilings from the structure without the need for spring hangers.

BENEFITS

- Elastomeric pads with a natural frequency of 7 Hz at design load deliver reliable noise and vibration isolation, eliminating need for springs, proven by testing
- Budget-friendly high-performance option. Performance equals spring hanger equivalent for ¼ the cost
- Appropriate solution for renovations of older buildings and adaptive reuse. Preserves slab-to-slab height with low-profile void as low as 102 mm (4")
- Installs without adhesive for cleaner and faster install
- Time and labor savings thanks to less fixations (only one) and simple grid system
- Tested at accreditated lab (NRC), including in combination with floor setup
- Can be used in combination with floating floors, wall isolation and isolated ceilings to create box-in-box constructions



PACKAGING

Model	Reference	Quantity per Box	Weight per Box [kg (lbs)]	Dimension of Box [cm (inch)]
Stravilink Zbar	002277	100	6.9 (15.2)	29 x 29 x 12 (11-7/16"x 11-7/16" x 4-3/4")

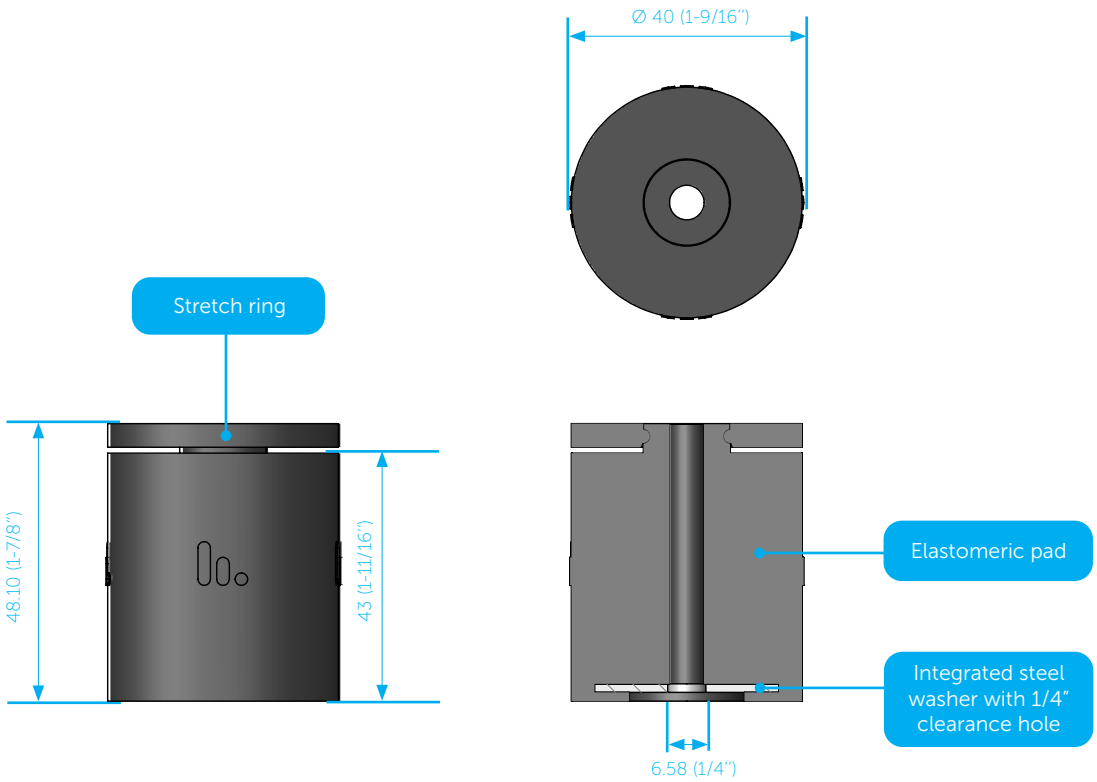
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INFO-CA@CDM-STRAVITEC.COM / WWW.CDM-STRAVITEC.COM

PHYSICAL & MECHANICAL PROPERTIES

Model	Design Load		Resonance Frequency at Design Load	Load Range (per Hanger)		Pad Colour
	lbs	N	Hz	lbs	N	
Stravilink Zbar	108	480	7	45-135	200-600	Black

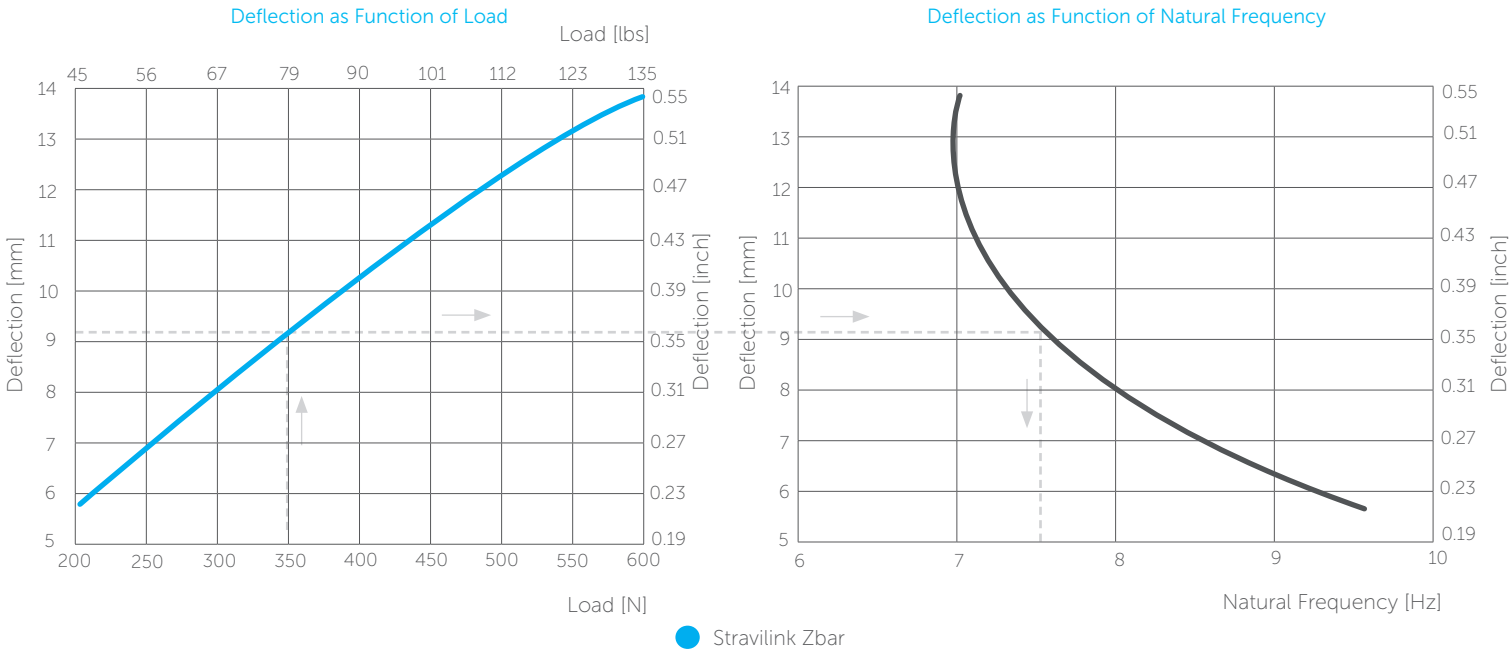
Notes:
Products are suited up to a C2 environment (atmosphere with little or no degree of pollution).
To assess which type is appropriate the following information is needed:
1) The weight and construction of the supported ceiling - this will determine the type of hanger;
2) The weights and support locations of any items hung from the ceiling.



Notes:
All dimensions in milimeters (inches).

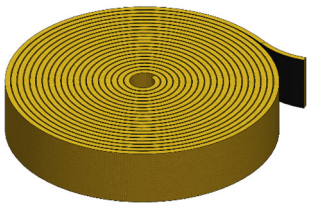
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PERFORMANCE GRAPHS



The natural frequency of a Stravilink 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 Natural Frequency" on which the corresponding natural frequency can be found. As an example, the natural frequency of a Stravilink Zbar loaded with 350 N (79 lbs) is determined. The corresponding deflection is 9.3 mm (3/8") and the natural frequency is 7.5 Hz.

ACCESSORIES

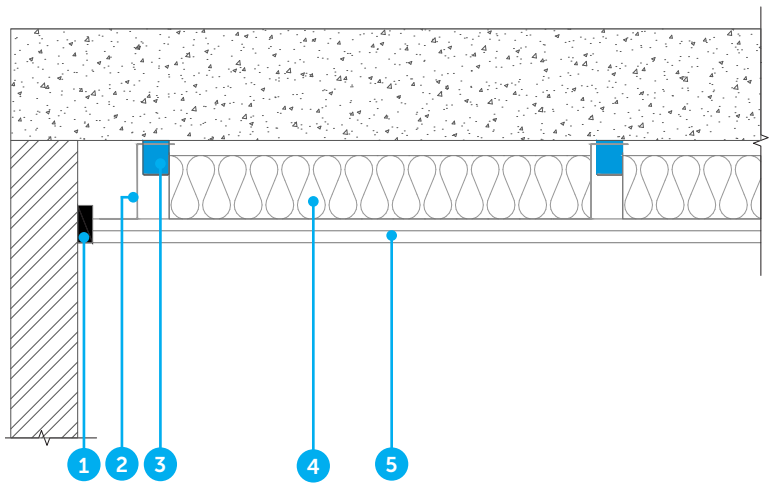


Perimeter Strip

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.

TYPICAL ASSEMBLIES

1. Perimeter Strip
2. Zbar profile
3. Stravilink Zbar
4. Insulation
5. Drywall



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ACOUSTICAL RESULTS

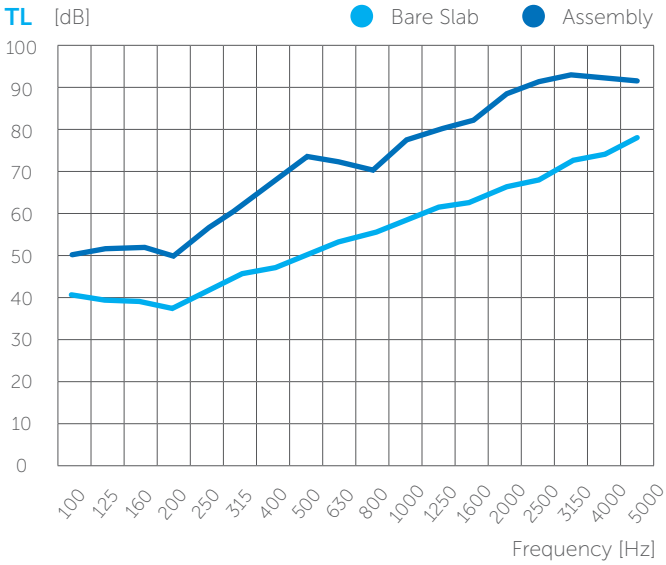
Test Setup

1. 150 mm (6") precast concrete slab
2. Stravilink Zbar frameless ceiling isolators
3. 102 mm (4") Z-channels, spaced at 610 mm (24") on centers
4. 89 mm (3-1/2") glass fibre insulation batts in the cavity
5. 2 layers of 16 mm (5/8") Type X gypsum board

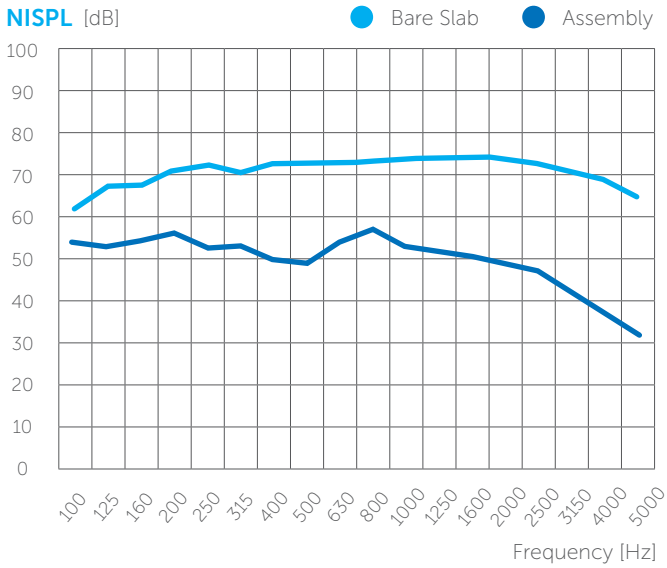
Setup	IIC	STC
Assembly	55	68
Bare Slab	29	53

Laboratory report available upon request
NRC Test Report A1-021983.1

Frequency [Hz]	Airborne TL [dB]	
	Bare Slab	Assembly
50	39	39
63	39	42
80	41	47
100	40	50
125	39	51
160	39	51
200	37	50
250	41	56
315	45	61
400	47	67
500	50	73
630	53	72
800	55	70
1000	58	77
1250	61	80
1600	63	82
2000	66	88
2500	68	91
3150	72	93
4000	74	92
5000	78	91



Frequency [Hz]	NISPL [dB]	
	Bare Slab	Assembly
50	55	55
63	56	54
80	59	52
100	62	54
125	67	53
160	68	54
200	71	56
250	72	53
315	71	53
400	73	50
500	73	49
630	73	54
800	73	57
1000	74	53
1250	74	52
1600	74	51
2000	74	49
2500	73	47
3150	71	42
4000	69	37
5000	65	32



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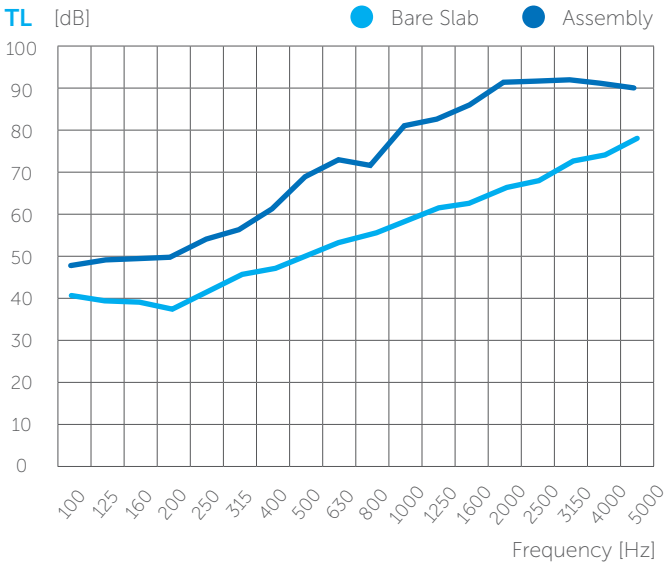
Test Setup

1. 16 mm (5/8") engineered hardwood
2. 4.5 mm (3/16") Stravifloor Mat-F4.5$_e$ underlayment
3. 150 mm (6") precast concrete slab
4. Stravilink Zbar frameless ceiling isolators
5. 102 mm (4") Z-channels, spaced at 610 mm (24") on centers
6. 89 mm (3-1/2") glass fibre insulation batts in the cavity
7. 2 layers of 16 mm (5/8") Type X gypsum board

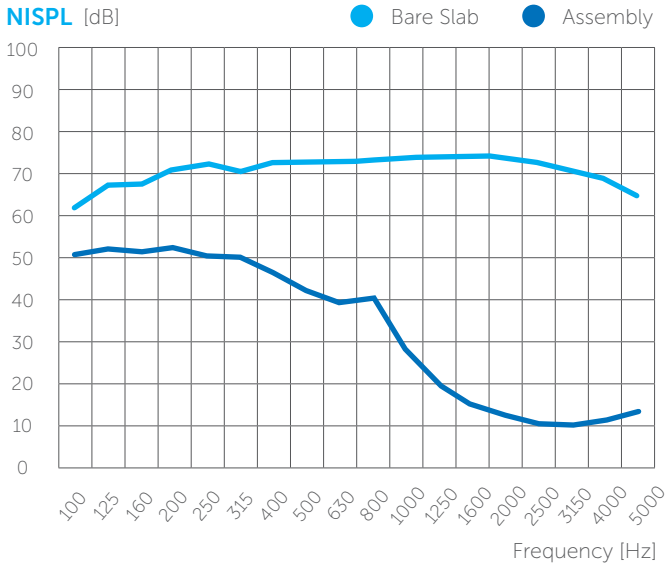
Setup	IIC	STC
Assembly	66	67
Bare Slab	29	53

Laboratory report available upon request
NRC Test Report A1-021983.2

Frequency [Hz]	Airborne TL [dB]	
	Bare Slab	Assembly
50	39	39
63	39	43
80	41	46
100	40	48
125	39	49
160	39	50
200	37	50
250	41	54
315	45	56
400	47	61
500	50	69
630	53	73
800	55	72
1000	58	81
1250	61	83
1600	63	86
2000	66	91
2500	68	92
3150	72	93
4000	74	91
5000	78	90



Frequency [Hz]	NISPL [dB]	
	Bare Slab	Assembly
50	55	55
63	56	51
80	59	53
100	62	51
125	67	52
160	68	52
200	71	52
250	72	50
315	71	50
400	73	46
500	73	42
630	73	39
800	73	40
1000	74	28
1250	74	19
1600	74	14
2000	74	12
2500	73	10
3150	71	10
4000	69	11
5000	65	13



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This documentation prepared by CDM Stravitec contains loading information for the Stravilink Zbar for acoustically isolated ceiling hangers. It should be noted that any loading information contained herein represent the loading information for the Stravilink Zbar 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.

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