stravilink
by CDM Stravitec

WALL & CEILING ELASTIC DECOUPLING

SOLUTIONS FOR SUPERIOR ACOUSTIC PERFORMANCE

CDM Stravitec,
Your Acoustical Wall & Ceiling Partner

Stravilink by CDM Stravitec offers a wide range of wall and ceiling acoustical decoupling solutions for virtually any performance requirement and void scenario.

- Delivered at competitive prices
- With world-class technical support
- Readily available solutions

With a global presence and local highly trained teams, we're always nearby to deliver expert support wherever sound control matters most.

DOCUMENTATION

- Installation manuals
- Typical cross sections
- Editable .doc specifiifcations
- Detailed technical datasheets
- Acoustical test reports
- Shop drawings for more complex projects
- LEED® documentation
- Declaration of performance

TECHNICAL SUPPORT

- Local technical sales team for appropriate solution recommendations
- Dedicated Project Delivery Managers for details and logistics and coordination of timeline & deliveries
- Design Engineers and on site supervision for complex installations

WIDE RANGE OF SOLUTIONS

- For all soffits and acoustical criteria
- For all mounting, interface, and for different loads
- Possibility to tailor solutions according to project requirements

Design for Disassembly

The traditional model of "Build-Use-Demolish" is slowly succeeded by the concept "Design for disassembly". The objective being to adopt "design with foresight" decisions to facilitate repurposing, retrofitting, reducing waste and extending lifespans.

Most of Stravilink solutions are developed with this objective in mind.

Q&E Management

CDM Stravitec nv operates ISO 9001:2015 and ISO 14001:2015 approved quality and environmental management systems.

CERTIFIED BY
ISO 9001
QUALITY MANAGEMENT
VINÇOTTE

CERTIFIED BY
ISO 14001
ENVIRONMENTAL MANAGEMENT
VINÇOTTE

Box-in-Box
Isolated Ceilings, Walls & Floors

A box-in-box system (sometimes called a room-within-a-room) is a construction method used to achieve high levels of sound isolation. It's commonly applied in recording studios, home theatres, concert halls, or any environment where external noise must be kept out and/or internal noise kept in.

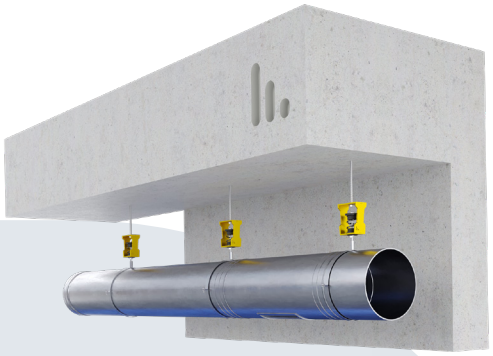
It consists of an inner "box" (room) structurally isolated from an outer "box" (the existing building shell). The inner walls, ceiling, and floor are physically decoupled from the outer structure.

The main objective of this concept is to:

- Reduce the flanking paths for sound transmission
- Increase the sound isolation between spaces

A box-in-box system is generally composed of:

- **Isolated Ceiling**
- **Isolated Walls**
  - Generally supported on the floating floor
  - Either a self-supported wall system or with resilient connection (wall ties) to the structural element
- **Floating Floor**



Stravilink ICH-S is available in two frame sizes, with the larger size ideal for use as a support hanger in heavy-duty applications, such as supporting mechanical equipment or heavy structures - page 8.

1 Isolated Ceiling Hangers – page 8 to 11

The **Stravilink** range offers a variety of isolated **ceiling hanger** solutions, featuring elastomeric pads or springs, suitable for all types of soffits, mountings, and interfaces. This flexibility ensures that Stravilink solutions can meet any performance criteria, construction methods, or space constraints.

2 Wall Isolation – page 11 to 16

The Stravilink range includes **wall clips**, **sway braces**, **supports**, and **fasteners** designed to provide complete elastic decoupling of partition walls and lining systems, without compromising structural integrity and while still allowing lateral restraint. The range offers solutions adaptable to a wide variety of wall types, including masonry and stud walls, as well as different support conditions.

stravifloor
by CDM Stravitec

3 High Performance Floating Floors

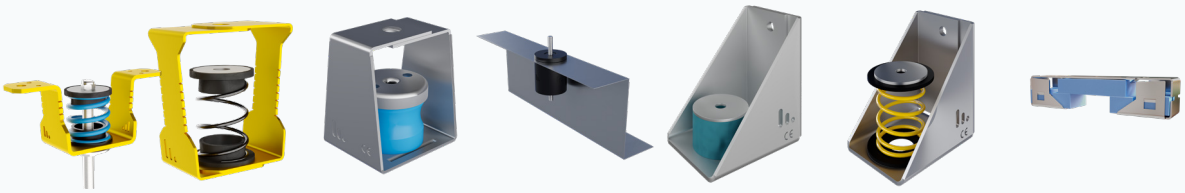
The **Stravifloor** range comprises both **lightweight** and **concrete floating floor solutions**, engineered to isolate airborne noise, vibration, and impact noise while ensuring the structural and functional integrity of the entire floor system.

For more about Stravifloor

SCAN ME

Stravilink Solutions
Overview

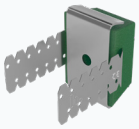
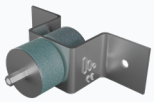
Ceiling Solutions



		Stravilink ICH-S	Stravilink DCH-P	Stravilink Zbar	Stravilink IJH-P	Stravilink IJH-S	Stravilink QRC
Soffit	Concrete[1]	●	●	●			●
	CLT[2]	●	●	●			●
	Wood Joist				●	●	●
Mounting	Direct	●	●	●	●	●	●
	Rod	●	●				
	Wire	●	●				
Interface[3]	CRC + Furring Channel	★★★[4]	★★★[4]		★★	★★	
	Drywall Grid	★★★[4]	★★★[4]		★★	★★	
	Furring Channel						★★★
	Z-Furring Channel			★★★			
Low Void[5]		★(★)[6]	★★	★★★	★★★	★★★	★★★(★)
Load Range [kg (lbs)]		2.5-367 (6-875)	10-45 (22-101)	20-60 (45-135)	10-53 (22-119)	5-78 (11-175)	24 (53)
Deflection @ADL[7] [mm (inch)]		25 (1)	6-6.5 (1/4)	12 (1/2)	3.5-4 (3/16)	16 mm (5/8)	4.5 (3/16)
Natural Frequency @ADL [Hz]		3.15	8	7	12	12	13
Page		8	10	11	12	13	14

[1] Including Autoclaved Aerated Concrete (AAC) [2] Cross-Laminated Timber
[3] Solutions with higher rank are solutions that are a better fit for this type of interface, while no points means it is not compatible [4] As pressembled solutions are available upon request
[5] Solutions with higher rank are solutions allowing for the lowest build-up [6] When using the Stravilink ICH-S-LP [7] Acoustical Design Load

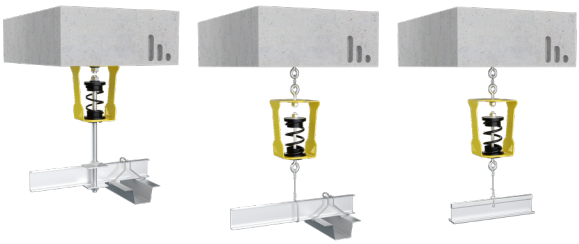
Wall Solutions

		 Stravilink QRC	 Stravilink QR	 Stravilink WH	 Stravilink WallStrip	 Stravilink WallFix
Drywall Systems	Partition Wall	●			●	●
	Lining Wall	●	●	●		●
Wall Construction	Metal Stud Wall	●	●	●		●
	Wood Stud Wall		●			
	Masonry Wall			●	●	
Solution Type	Sway Brace	●	●	●		
	Support				●	●
Page		13	14	15	16	17

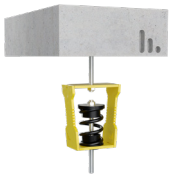
Stravilink ICH-S

Isolation Ceiling Hanger with Springs

OTHER POSSIBLE
MOUNTINGS & INTERFACES:

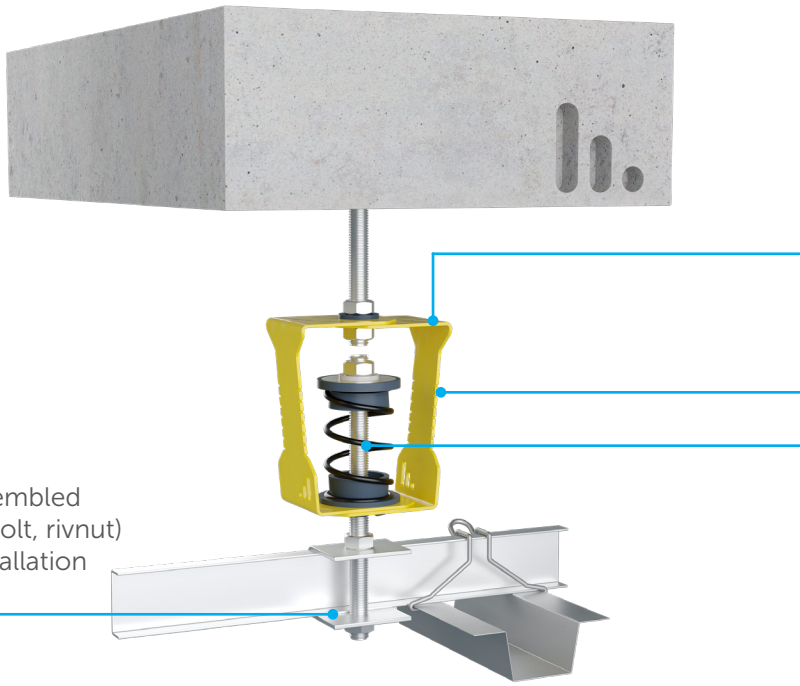


SUPPORT HANGER:



For larger renders, visit online solution page

Stravilink ICH-S
(Light Frame and Heavy Frame)



Can come pre-assembled (channel clip, eye bolt, rivnut) making on-site installation easier and faster

Stravilink ICH-S

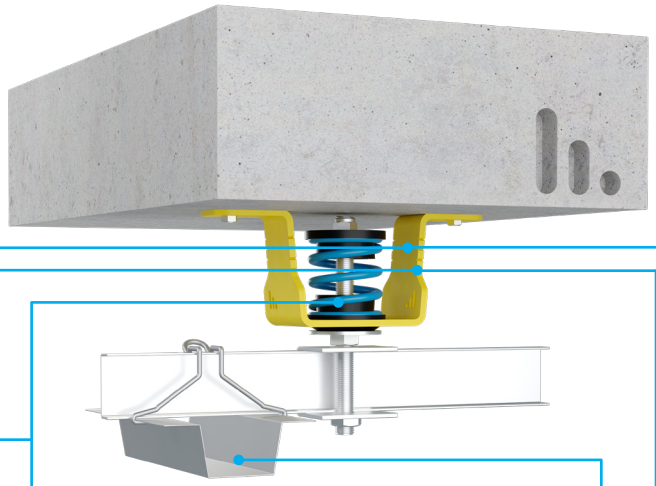
Isolated Ceiling Hanger with Springs engineered to acoustically decouple suspended ceilings and mechanical equipment from vertically stacked rooms. Combining engineered springs with a range of frame options, it provides a custom-fit solution for light suspended ceilings and heavy mechanical equipment,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

Soffit types:

	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)
Deflection @ADL[1] [mm (inch)]	25 (1)	25 (1)	25 (1)
Natural Frequency @ADL [Hz]	3.1	3.1	3.1
Min. Void Depth [mm (inch)]	150 (6)	201 (7-7/8)	255 (10)
Acoustical Test Results[2]		IIC 60 / STC 73	

[1] Acoustical Design Load [2] With a 150 mm (6") precast concrete slab (page 18 for more details)

Stravilink ICH-S-LP (Low Profile)



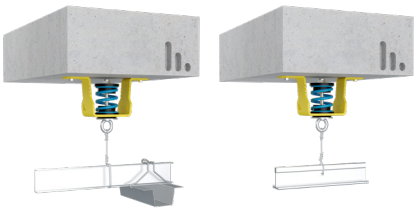
Colored housing allowing easily ID complete levels on site

Notches integrated in frame to provide visual cue of overload conditions of the spring

Always come pre-assembled (channel clip, or eye bolt) and pre-compressed at 75% of the design load, making on-site installation easier and faster

Color-coded springs for easy verification on site

OTHER POSSIBLE MOUNTINGS & INTERFACES:



For larger renders, visit online solution page

MAIN BENEFITS

Guaranteed Acoustical Performance
Even with misalignments, since it has a swing tolerance of up to 30° and rubber gasket prevents the rod from short-circuiting with the frame.

Flexible Design
Flexible void options starting from 150 mm (6”).
Install on various structures.

Safety
All springs have a minimum 70% travel from design deflection to overload condition.

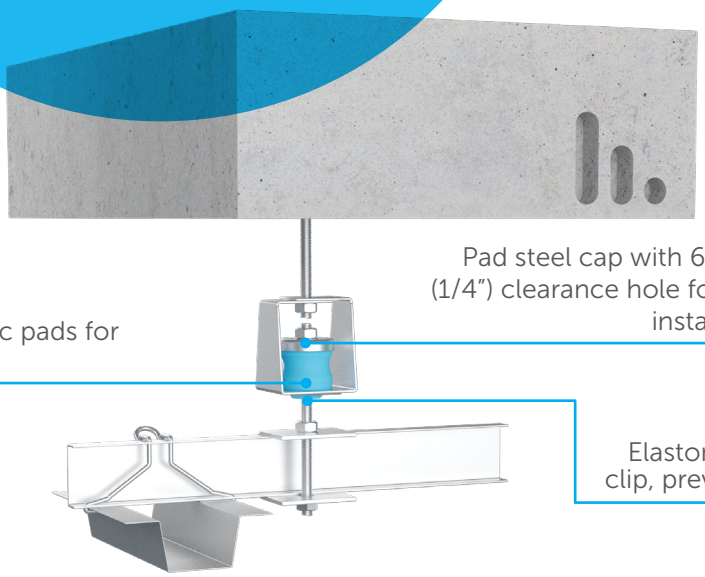
Time & Labor Savings
Available pre-assembled and pre-compressed for easy leveling, and with rivnut (light frame) for direct fixation.

Installation Ease
Swing tolerance of up to 30°.
Easily ID complete levels on site with brightly colored housing.

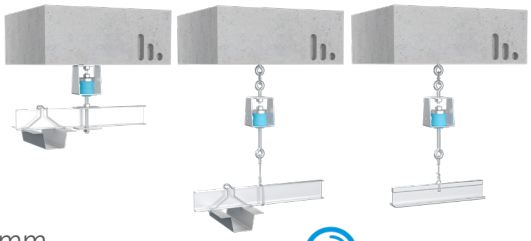
Versatility
Use your preferred mounting method and interface (cold-rolled channel and furring channel or drywall grid).

Stravilink DCH-P

Drop Ceiling Hanger with Elastomeric Pads



OTHER POSSIBLE
MOUNTINGS & INTERFACES:



For larger renders, visit online solution page

Soffit types:

Stravilink DCH-P

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.

	Stravilink DCH-P
Load Range [kg (lbs)]	10-45 (22-101)
Deflection @ADL[1] [mm (inch)]	6-6.5 (1/4)
Natural Frequency @ADL [Hz]	8
Frame Height [mm (inch)]	62.8 (2-1/2)
Acoustical Test Results[2]	IIC 54 / STC 72

[1] Acoustical Design Load

MAIN BENEFITS

Guaranteed Acoustical Performance
Elastomeric pad extends beyond the metal clip, avoiding any short-circuiting.

Flexible Design
Flexible void options, for limited space or increased performance.
Compact frame of 62.8 mm (2-1/2") for limited space.

Easy to Specify
Ready-to-use .dwg cross-sections and editable .doc specifications available online.

Time & Labor Savings
Available pre-assembled and pre-compressed for easy leveling and with revinut for direct fixation.
Only two components.

Installation Ease
Color-coded Pads for easy load ID onsite: right color, no mistake.

Versatility
Use your preferred mounting method and interface (cold-rolled channel and furring channel or drywall grid).

Stravilink Zbar

Frameless Low-Profile Hanger

The elastomeric pad extends through the Z-Furring Channel, preventing the rod from short-circuiting with the profile

Stretch ring to prevent rigid contact between the Z-Furring Channel and the soffit

Soffit types:

Stravilink Zbar

A frameless, low-profile resilient fixation system for acoustic ceilings that isolates the primary ceiling structure (Z-Furring Channel) from the structure. It is a streamlined resilient fixation system designed for ceilings with void depths from 102 mm (4''). Stravilink Zbar solution is used to isolate acoustical ceilings from the structure without the need for spring hangers.

	Stravilink Zbar
Load Range [kg (lbs)]	20-60 (45-135)
Deflection @ADL[1] [mm (inch)]	12 (1/2)
Natural Frequency @ADL [Hz]	7
Min. Void Depth [mm (inch)]	102 (4)
Acoustical Test Results[2]	IIC 55 / STC 68

[1] Acoustical Design Load [2] With a 150 mm (6") reinforced concrete slab (page 18 for more details)

MAIN BENEFITS

Guaranteed Acoustical Performance
Eliminates need for springs. Proven by testing.

Space Efficiency
Preserves slab-to-slab height with low-profile void as low as 102 mm (4").

Easy to Specify
Easily integrate into project documentation and workflows with ready-to-use .dwg cross-sections and editable .doc specifications available online.

Time & Labor Savings
Cost ¼ the spring hanger equivalent, for the same performance.
Installs with one attachment (compared to 4 with spring hanger equivalent).

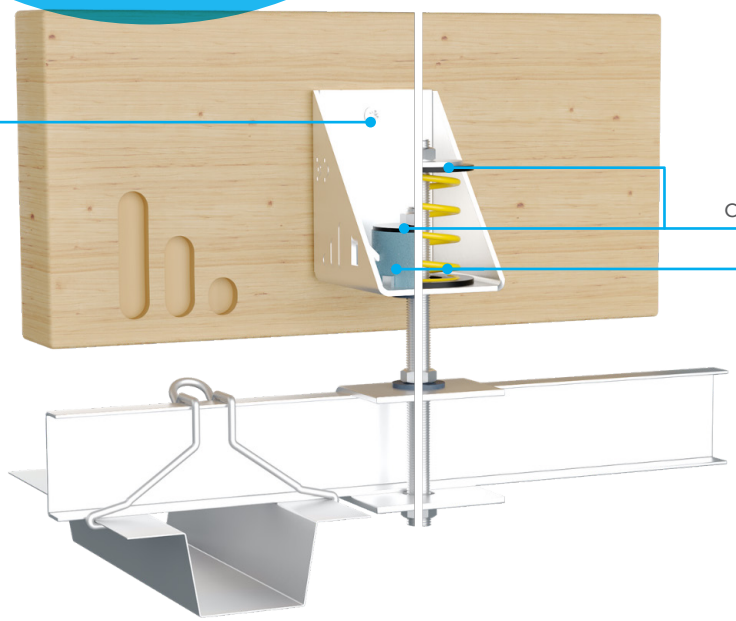
Installation Ease
Less complex grid system compared to the spring hanger equivalent.

Guaranteed Acoustical Performance
Easy to switch spec with tests available.

Stravilink IJH-P/S

Isolation Joist Hanger with Elastomeric Pads or Springs

Single 6.5 mm (1/4") pre-drilled hole enables fast and straightforward lateral fixation



Steel washer with 6.6 mm (1/4'') clearance hole for easy installation

Color-coded springs and pads for easy verification on site

Soffit types:

Stravilink IJH-P/S

Isolation Joist Hanger with Elastomeric Pads or Springs, designed to support suspended ceiling systems of joist structural floors, optimizing sound insulation between vertically stacked rooms.

	Stravilink IJH-P	Stravilink IJH-S
Load Range [kg (lbs)]	10-53 (22-119)	5-78 (11-175)
Deflection @ADL[1] [mm (inch)]	3.5-4 (3/16)	16 (5/8)
Natural Frequency @ADL [Hz]	12	4
Frame Height [mm (inch)]	73 (2-7/8)	73 (2-7/8)
Acoustical Test Results[2]	IIC 54 / STC 59	-

[1] Acoustical Design Load [2] With wooden joists structure and an Oriented Strand Board (OSB) (see page 18 for more details)

MAIN BENEFITS

Guaranteed Acoustical Performance
Proven performance in both new and historic timber joist buildings.

Flexible Design
Space-saving with flexible void options for any performance need (boards can be almost immediately below the wood joist).

Easy to Specify
Ready-to-use .dwg cross-sections and editable .doc specifications available online.

Time & Labor Savings
Create flat ceilings regardless of structure conditions with the variable hanging height option.

Installation Ease
Ideal for lateral attachment with pre-drilled, single-attachment installation method.
Color-coded pads and springs for easy load ID onsite.

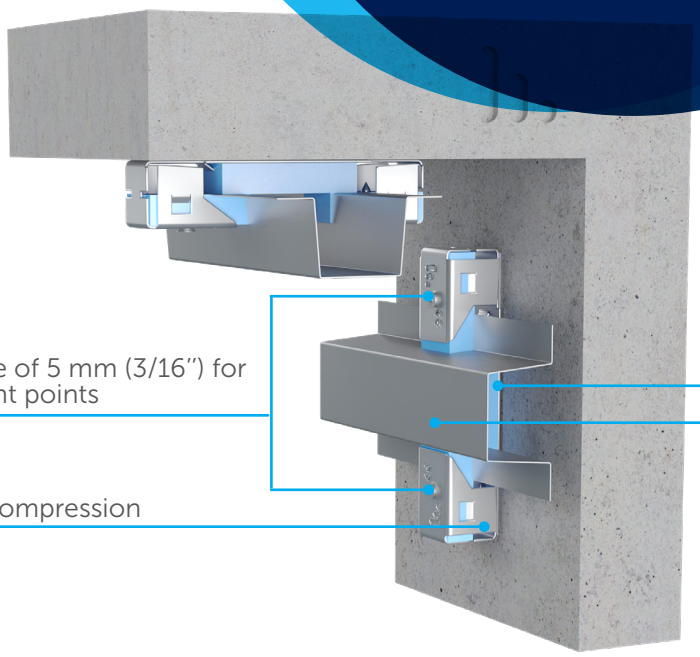
Versatility
Use your preferred interface (cold-rolled channel and furring channel or drywall grid).

Stravilink QRC

Quiet Resilient Clip

OTHER POSSIBLE
SUPPORTS:

For larger renders, visit online solution page



Soffit types:

Stravilink QRC

Quiet Resilient Clip, a slim isolated wall and ceiling clip designed to isolate a standard wall and ceiling hat-shaped channel, therefore optimising sound insulation between horizontally and vertically arranged rooms.

	Stravilink QRC
Load Range [kg (lbs)]	Ceiling: ≤ 24 (53) Wall: ≤ 27 (59.5)
Deflection @ADL[1] [mm (inch)]	4.5 (3/16)
Natural Frequency @ADL [Hz]	10
Min. Void Depth [mm (inch)]	35 (1-3/8)[2]
Acoustical Test Results[3]	IIC 56 / STC 71

[1] Acoustical Design Load (see page 18 for more details)

MAIN BENEFITS

Guaranteed Acoustical Performance
Covers load conditions of up to 24 kg (53 lbs) with a natural frequency of 10 Hz at ADL (for ceiling).

Safety & Structural Integrity
Prevents isolated partition buckling with added structural stability.

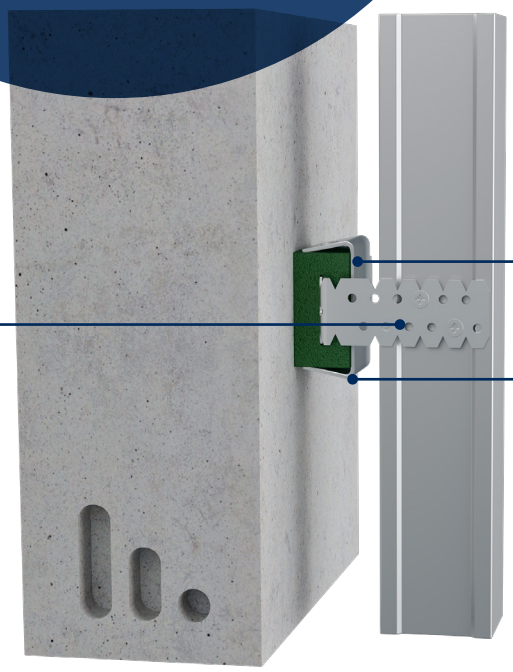
Space Efficiency
Suited for renovations of older buildings and adaptive reuse, with a low-profile void as low as 35 mm (1-3/8") (for both ceiling and wall applications).

Time & Labor Savings
Attaches to substrate with two pre-drilled 5 mm (3/16") attachment points. Use the self-adhesion strip for easy placement.
One-component system to attach furring channel.
Over-compression safety eliminates the risk of over-compression installation errors.

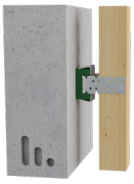
Versatility
Versatile solution attaches to ceilings or walls, and any substrate. Suited for retrofit projects with narrow voids.

Stravilink QR

Acoustical Brackets for Quiet Rooms



OTHER POSSIBLE STUDS:



For larger renders, visit online solution page

Stravilink QR

Specifically designed for lining systems, Stravilink QR acoustic brackets are engineered to acoustically isolate wall linings from the base structure, significantly enhancing the overall sound performance of the complete wall assembly.

	Stravilink QR
Load Range [kg (lbs)]	Up to 16 (35)
Natural Frequency @ADL[1] [Hz]	≤ 14
Min. Distance Between the Support Wall and Vertical Profile [mm (inch)]	30 (1-3/16)
Acoustical Test Results[2]	STC 76

[1] Acoustical Design Load [2] With a 190 mm (7-1/2") heavy masonry wall as support structure and Damping Layer between gypsum boards (page 18 for more details, including results without Damping Layer)

MAIN BENEFITS

Safety & Structural Integrity

Prevents isolated partition buckling with added structural stability.
Made with zinc-plated steel for guaranteed long-term performance.

Flexible Design

Flexible void options starting from 30 mm (1-3/16") between the stud and the supporting wall.

Time & Labor Savings

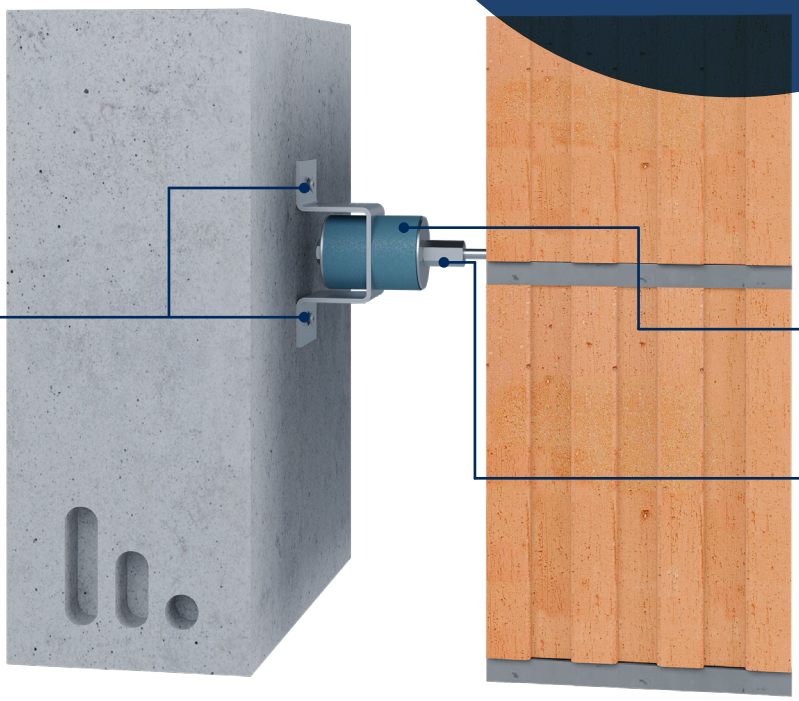
Pre-assembled, single-piece solution.
Over-compression safety eliminates the risk of over-compression installation errors.
Attaches to substrate with one attachment point.
Strips are easily bent and attached to partitions to any stud width with pre-drilled holes.

Stravilink WH

Resilient Wall Sway Brace

OTHER POSSIBLE WALLS:

For larger renders, visit online solution page



Stravilink WH

Resilient sway brace, enabling walls to be mechanically tied together without rigidly connecting them. Walls can be either stud walls (via bolt end) or masonry block walls (via hooked end).

	Stravilink WH
Load Range [kg (lbs)]	Up to 65 (146)
Natural Frequency @ADL[1] [Hz]	10
Min. Void Depth [mm (inch)]	Stud Wall: 120 (4-3/4) [2] Block Wall: 70 (2-3/4)

[1] Acoustical Design Load [2] Using metal C-stud of 50 mm (2") wide

MAIN BENEFITS

Safety & Structural Integrity

Prevents isolated partition buckling with added structural stability.
Made with zinc-plated steel for guaranteed long-term performance.

Flexible Design

Flexible void options starting from 70 mm (2-3/4") between the stud or masonry wall and the supporting wall.

Time & Labor Savings

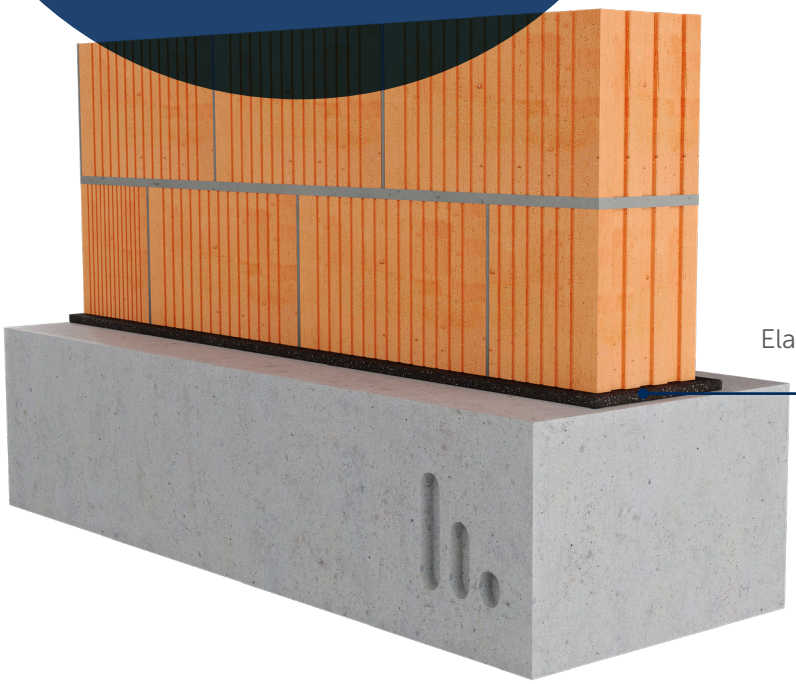
Can be installed with an unskilled labor force.
Pre-assembled, single-piece solution.

Flexible Design

Easy inventory management. Installs on both metal stud and masonry walls.

Stravilink WallStrip

Load Bearing Resilient Strip



Elastomeric strip available in various widths

ACCESSORY:

For larger renders, visit online solution page

Stravilink RHD
(Resilient Head Detail)

Stravilink WallStrip

Resilient strip specifically designed to reduce flanking transmissions in load-bearing walls, enhancing both vibration and structural noise isolation by limiting unwanted noise transfer throughout the building.

	Stravilink WallStrip
Deflection [mm (inch)]	< 2 (< 1/16)
Maximum Load [kg/lm (lbs/ft)]	2,500 (18,083)[1]

[1] Depending on the wall footprint, value for 130 mm (5") walls

MAIN BENEFITS

Guaranteed Performance
Reliable long-term performance thanks to the use of materials with minimal creep.

Flexible Design
Different strip widths available to adapt to typical wall widths.
Strip adapts to different load conditions.

Easy To Specify
Easily integrate into project documentation and workflows with ready-to-use .dwg cross-sections and .doc specifications available online.

Time & Labor Savings
Building walls directly onto the strip without the need for other attachments saves time on-site.

Installation Ease
Streamlined solution is fast and easy to install, easy to handle, transport, and cut on-site.
Available to accommodate most masonry wall widths, eliminating the need for custom widths.

Stravilink WallFix

Stud Base Isolation & Fixation

DOUBLE WALL:

For larger renders, visit online solution page

ACCESSORY:

Stravilink RHD
(Resilient Head Detail)

Stravilink WallFix

Sound-insulating system for partition and lining walls. It uses strips under metal runners and washers to fix runners to floors or ceilings. The optional Stravilink WallFix Bracket further decouples the lining wall from the structure.

	Stravilink WallFix
Deflection [mm (inch)]	< 2 (< 1/16)
Maximum Load [kg/lm (lbs/ft)]	1,500 (10,850)[1]
Acoustical Test Results[2]	STC 64

[1] Depending on the track footprint, value for 75 mm (3") strip [2] Double partition wall with 50 mm (2") framing

MAIN BENEFITS

Guaranteed Performance

Provides structural integrity without compromising vibration and noise isolation, with minimal creep.

Flexible Design

Different strip widths available, to suit any cavity width.

Strip with high load capacity, to adapt to different load conditions.

Sustainability

Uses agglomerated rubber strips with more than 90% recycled content.

Installation Ease

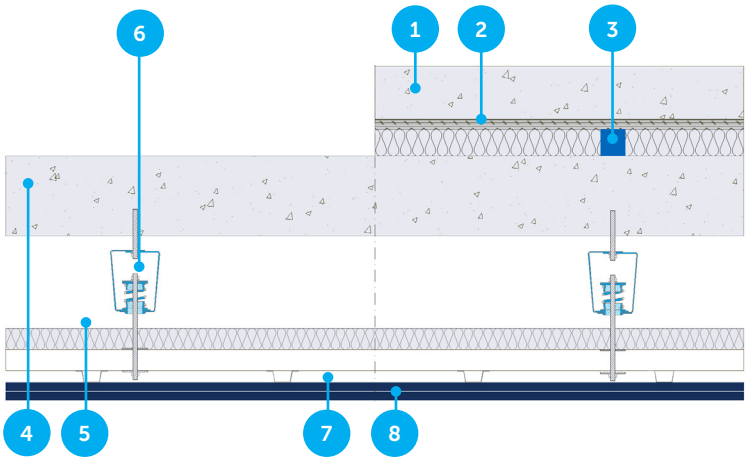
Two-component system includes elastomeric washers with an integrated metal washer for simple attachment and elastomeric strips.

Elastomeric strips delivered in rolls - easy to handle, transport, and cut on-site.

Full support of metal stud runners by unrolling the strip, without complexity in positioning.

Elastomeric strips are available in the widths of most metal studs, making integration easy without custom cutting.

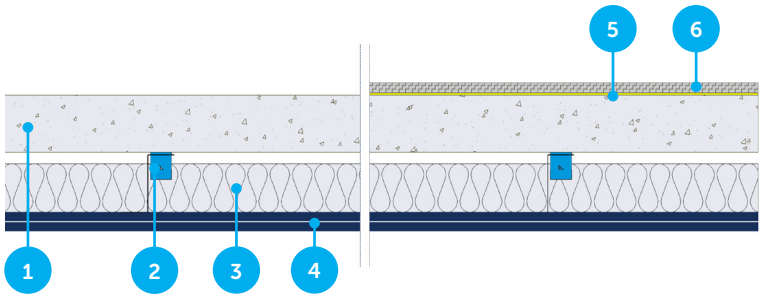
Acoustic Results
Test Setups



1. 100 mm (4") concrete floating slab
2. 19 mm (3/4") plywood board
3. Pad-M50 [50 mm (2")], spaced at 610 mm (24") with 38 mm (1-1/2") insulation material
4. 150 mm (6") reinforced concrete slab
5. 92 mm (3-5/8") fiberglass insulation batts
6. **Stravilink ICH-S** spaced at 1120 mm (44") o.c. on 9.5 mm (3/8") threaded rods
7. 19 x 38 mm (¾" x 1-½") U-channels and 22 mm (7/8") furring channels perpendicular, spaced at 610 mm (24") o.c.
8. 2 layers of 16 mm (5/8") gypsum board

IIC	STC
60	73

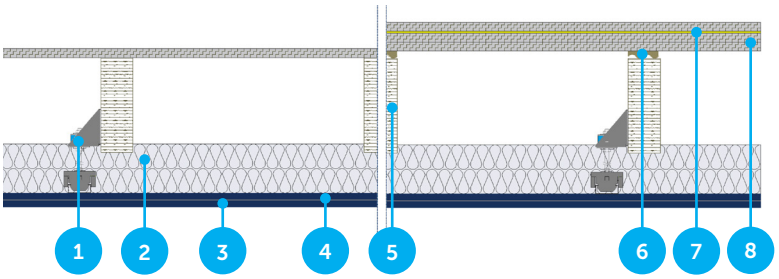
IIC	STC
88	86



1. 150 mm (6") reinforced concrete slab
2. 102 mm (4") Z-channels, spaced at 610 mm (24") o.c. with **Stravilink Zbar** spaced at 1220 mm (48") o.c.
3. 89 mm (3-1/2") fiberglass insulation batts
4. 2 layers of 16 mm (5/8") gypsum board
5. 4.5 mm (3/16'') Stravifloor Mat-F4.5$_e$ underlayment
6. 16 mm (5/8") engineered hardwood

IIC	STC
55	68

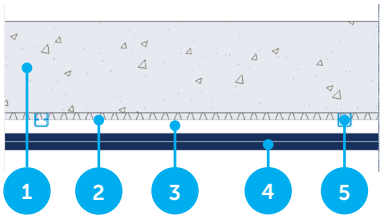
IIC	STC
66	67



1. **Stravilink IJH-P**
2. 100 mm (4") mineral wool
3. 2 layers of 12.5 mm (1/2") Gypsum boards
4. 3 mm (1/8") Damping Layer
5. 63 x 178 mm (2-1/2" x 7") wooden joists
6. 15 mm (9/16") Stravifloor Mat-W15$_a$ strip
7. 3 mm (1/8") Damping Layer
8. Oriented Strand Board (OSB) [3 x 18 mm (11/16")]

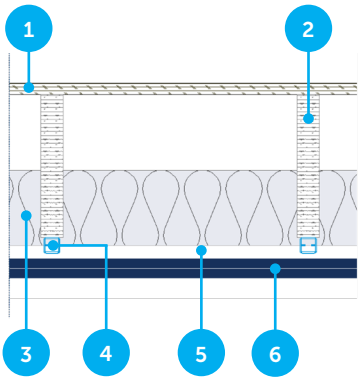
IIC	STC
54	59

IIC	STC
62	65



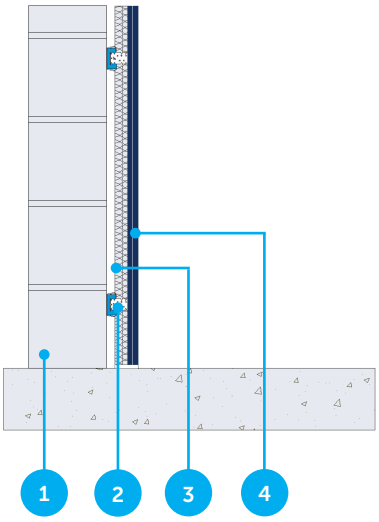
1. 140 mm (5-1/2") concrete base slab
2. 40 mm (1-9/16") mineral wool
3. 30 mm (1-3/16") height furring channel
4. 2x layers 12.5 mm (1/2") gypsum boards
5. **Stravilink QRC** fixed directly to ceiling [on grid of 567.5 x 1200 mm (22-5/16" x 47-1/4")]

IIC	STC
56	71



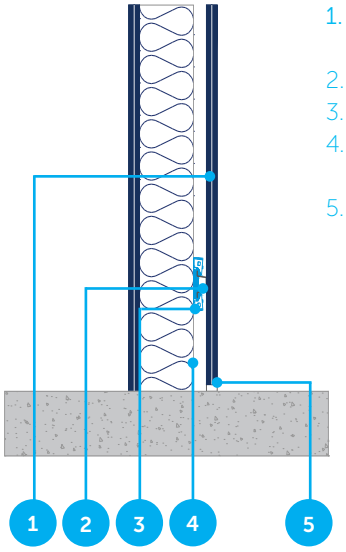
1. 19 mm (3/4") plywood
2. 38 mm (1-1/2") x 240 mm (9-7/16") wood joists, spaced 406 mm (16") on centers
3. 150 mm (5-7/8") fiberglass batt insulation
4. **Stravilink QRC**
5. 22 mm (7/8") metal furring channel
6. 2 layers 16 mm (5/8") plasterboard

IIC	STC
52	59



1. 190 mm (7-1/2") heavy masonry wall
2. **Stravilink QR**
3. 50 mm (2") total air cavity with 30 mm (1-3/16") insulation material
4. 2x layers 12.5 mm (1/2") gypsum board with 3 mm (1/8") Damping Layer in between

STC
76



1. 2x layers 15 mm (9/16") plasterboard
2. 30 mm (1-3/16") furring channel
3. **Stravilink QRC**
4. 90 mm (3-9/16") metal stud wall with 50 mm (2") insulation
5. Perimeter Strip

IIC
66

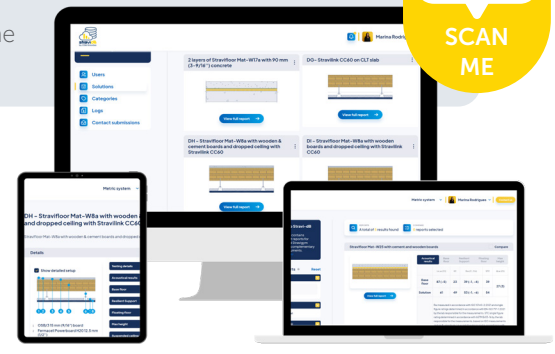
Register on **Stravi-dB** to access the acoustic test reports for these and many other Stravilink assemblies. Stravi-dB is a free online library that provides not only test reports, but also editable measurement data (.csv), typical cross-sections (.dwg), and a wide range of additional documents - making it easy to integrate the solutions into your projects.

https://stravi-db.com/

OR

Detailed information on acoustic measurements can be found in the datasheet for each solution.

SCAN ME



References
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During that time, we have made many contributions to the intelligent design and noise mitigation of buildings with our engineered products. Take a look at some of our latest projects carried out with Stravilink solutions and reputable acoustical consultants.
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