

# 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 specififcations
- 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
   8 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



# 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 heavyduty 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.

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.

Stravificor by CDM Stravitec

**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

3

# **Stravilink Solutions**

# Overview

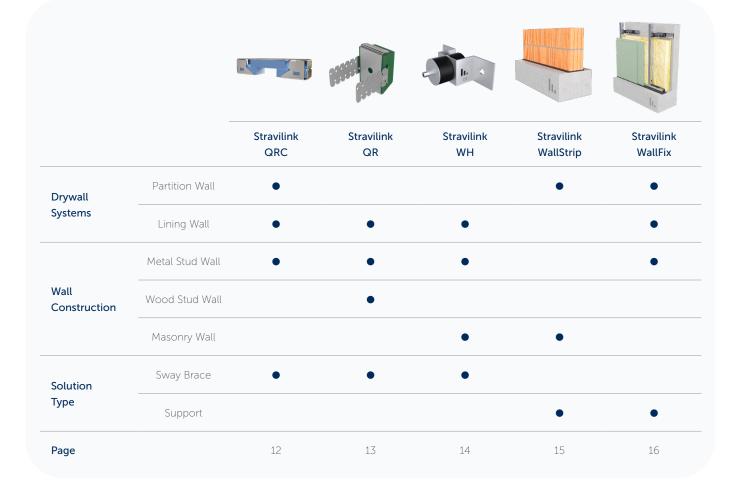
Ceiling Solutions							
					lt.	li de	
	-	Stravilink ICH-S	Stravilink DCH-P	Stravilink Zbar	Stravilink IJH-P	Stravilink IJH-S	Stravilink QRC
	Concrete <sup>(1)</sup>	•	•	•			•
Soffit	CLT <sup>(2)</sup>	•	•	•			•
	Wood Joist				•	•	•
	Direct	•	•	•	•	•	•
Mounting	Rod	•	•				
	Wire	•	•				
	CRC + Furring Channel	****	***(4)		**	**	
(7)	Drywall Grid	****(4)	****(4)		**	**	
nterface <sup>(3)</sup>	Furring Channel						***
	Z-Furring Channel			***			
Lo	w Void <sup>(5)</sup>	*	**	***	***	***	***(*)
Load Ra	ange [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)
	ction @ADL <sup>(6)</sup> m (inch)]	25 (1)	6-6.5 (1/4)	12 (1/2)	3.5-4 (3/16)	16 mm (5/8)	4.5 (3/16)
	al Frequency ADL [Hz]	3.15	8	7	12	4	10
	Page	8	9	10	11	11	12

 $<sup>^{\</sup>mbox{\tiny (1)}}$  Including Autoclaved Aerated Concrete (AAC)  $^{\mbox{\tiny (2)}}$  Cross-Laminated Timber

<sup>(3)</sup> 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

 $<sup>^{(5)}</sup>$  Solutions with higher rank are solutions allowing for the lowest build-up  $^{(6)}$  Acoustical Design Load

### **Wall Solutions**



### Stravilink ICH-S

Isolation Ceiling Hanger with Springs



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

Can come pre-assembled (channel clip, eyebolt, clevis pin) making on-site installation easier and faster





SUPPORT HANGER:



For larger renders, visit online solution page

Color-coded springs for easy verification on site







#### Stravilink ICH-S

Heavy-duty Isolation Ceiling Hanger with Springs engineered to acoustically decouple suspended ceilings. 14 different spring types available, designed for a 25 mm (1") deflection for design loads between 12 lbs and 550 lbs (55 N to 2450 N).

	Stravilink ICH-S Light Frame	Stravilink ICH-S Heavy Duty
Load Range [kg (lbs)]	2.5-66.5 (6-150)	33.5-367 (50-875)
Deflection @ADL <sup>(1)</sup> [mm (inch)]	25 (1)	25 (1)
Natural Frequency @ADL [Hz]	3.15	3.15
Min. Void Depth [mm (inch)]	220 (8-3/4)	255 (10)
Acoustical Test Results <sup>(2)</sup>	IIC 60 ,	/ STC 73

<sup>&</sup>lt;sup>(1)</sup> Acoustical Design Load <sup>(2)</sup> With a 150 mm (6") precast concrete slab (page 17 for more details)



#### **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 220 mm (8-3/4"). 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 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

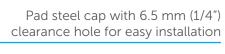
Drop Ceiling Hanger with Elastomeric Pads

# OTHER POSSIBLE MOUNTINGS & INTERFACES:





Color-coded elastomeric pads for easy verification on site



Elastomer extends beyond the clip, preventing rod-clip contact



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 <sup>(1)</sup> [mm (inch)]	6-6.5 (1/4)
Natural Frequency @ADL [Hz]	8
Frame Height [mm (inch)]	62.8 (2-1/2)
Acoustical Test Results <sup>(2)</sup>	IIC 54 / STC 68

<sup>(1)</sup> 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

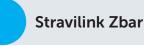
Frameless Low-Profile Hanger



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







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 <sup>(1)</sup> [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	

 $<sup>^{</sup> ext{(1)}}$  Acoustical Design Load  $^{ ext{(2)}}$  With a 150 mm (6") reinforced concrete slab (page 17 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.

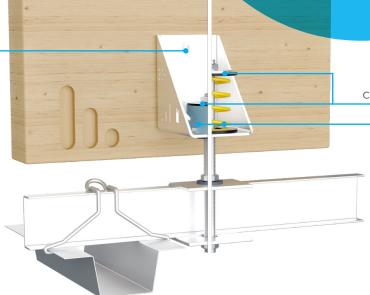
#### **Guaranteed Acoustical Performance**

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







#### 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 <sup>(1)</sup> [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 <sup>(2)</sup>	IIC 54 / STC 59	-

 $<sup>^{(1)}</sup>$  Acoustical Design Load  $^{(2)}$  With wooden joists structure and an Oriented Strand Board (OSB) (see page 17 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.

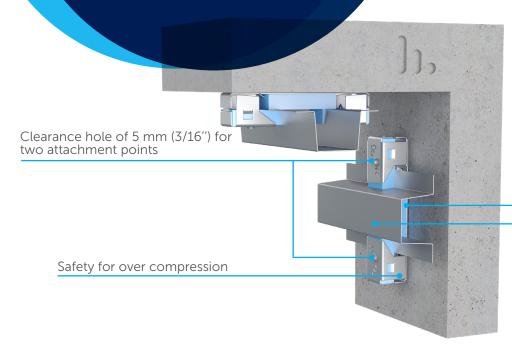
Color-coded pads and springs for easy load ID onsite.

#### Versatility

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

### Stravilink QRC

Quiet Resilient Clip



#### OTHER POSSIBLE SUPPORTS:





Self-adhesive strip for initial placement

> For furring channel widths from 60-70 mm (2-3/8" - 2-3/4")







# 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 <sup>(1)</sup> [mm (inch)]	4.5 (3/16)
Natural Frequency @ADL [Hz]	10
Min. Void Depth [mm (inch)]	35 (1-3/8)(2)
Acoustical Test Results <sup>(3)</sup>	IIC 52 / STC 59

<sup>(1)</sup> Acousti--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 overcompression installation errors.

#### Versatility

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

### Stravilink QR

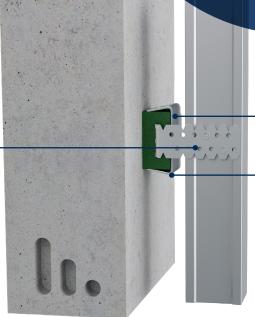
Acoustical Brackets for Quiet Rooms

#### OTHER POSSIBLE STUDS:



Zinc-plated and pre-drilled strips

page



Integrated system for controlled compression

Zinc-plated frame with hole for direct fixing to support



#### 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 <sup>(1)</sup> [Hz]	≤ 14
Min. Distance Between the Support Wall and Vertical Profile [mm (inch)]	30 (1-3/16)
Acoustical Test Results <sup>(2)</sup>	STC 76

 $^{\mbox{\tiny (1)}}$  Acoustical Design Load  $^{\mbox{\tiny (2)}}$  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 longterm performance.

#### Flexible Design

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

#### Time & Labor Savings

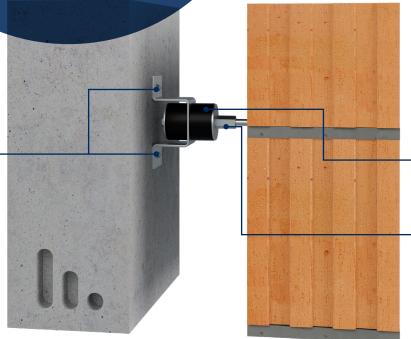
Pre-assembled, single-piece solution.

Over-compression safety eliminates the risk of overcompression 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

Pre-compressed elastomer to ensure consistent acoustical isolation

Coupling nut to fit bolt or hooked end, for all wall types

### Stravilink WH

Two holes for direct

attachment

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 <sup>(1)</sup> [Hz]	10
Min. Void Depth [mm (inch)]	Stud Wall: 120 (4-3/4) <sup>(2)</sup> Block Wall: 70 (2-3/4)

<sup>(1)</sup> Acoustical Design Load <sup>(2)</sup> 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

#### **ACCESSORY:**



Stravilink RHD
(Resilient Head Detail)

For larger renders, visit online solution page



Elastomeric strip available in various widths



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)
aximum Load [kg/lm (lbs/ft)]	2,500 (18,083)(1)

 $<sup>^{\</sup>mbox{\tiny (1)}}$  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: ACCESSORY:







Stravilink RHD
(Resilient Head Detail)

Stravilink WallFix Washer supplied with pre-drilled hole and integrated metal washer for easy installation

Stravilink WallFix Strip, easy to cut and available in various widths to suit different wall widths



#### 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 <sup>(2)</sup>	STC 64

 $<sup>^{(1)}</sup>$  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.

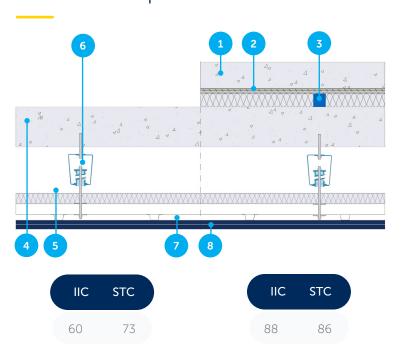
Elastomeric strips delivered in rolls - easy to handle, transport, and cut on-site.

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

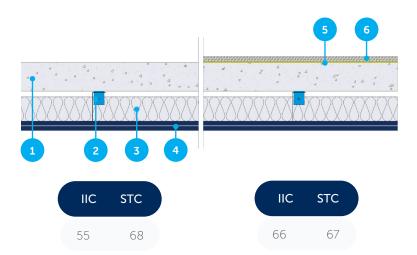
Elastomeric strips are available in the widths of most metal studs, making integration easy without custom cutting.

### **Acoustic Results**

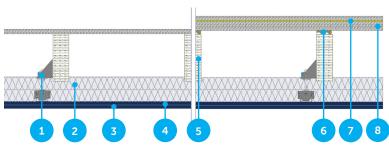
# Test Setups



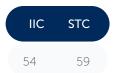
- 1. 100 mm (4") concrete floating slab
- 2. 19 mm (3/4") plywood board
- 3. Pad-M50 [50 mm (2")], spaced at 610 mm (24") with 38 mm (1-1/2") insulation material
- 4. 150 mm (6") reinforced concrete slab
- 5. 92 mm (3-5/8") fiberglass insulation batts
- 6. **Stravilink ICH-S** spaced at 1120 mm (44") o.c. on 9.5 mm (3/8") threaded rods
- 7. 19 x 38 mm ( $\frac{3}{4}$ " x 1- $\frac{1}{2}$ ") U-channels and 22 mm ( $\frac{7}{8}$ ") furring channels perpendicular, spaced at 610 mm ( $\frac{24}{9}$ ") o.c.
- 8. 2 layers of 16 mm (5/8") gypsum board

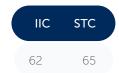


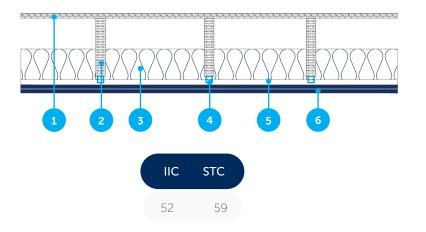
- 1. 150 mm (6") reinforced concrete slab
- 2. 102 mm (4") Z-channels, spaced at 610 mm (24") o.c. with standard isolator and stabilizer spaced at 1220 mm (48") o.c.
- 3. 89 mm (3-1/2") fiberglass insulation batts
- 4. 2 layers of 16 mm (5/8") gypsum board
- 5. 4.5 mm (3/16") Stravifloor Mat-F4.5 underlayment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



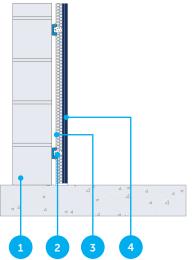
- 1. Stravilink IJH-P
- 2. 100 mm (4") mineral wool
- 3. 2 layers of 12.5 mm (1/2") Gypsum boards
- 4. 3 mm (1/8") Damping Layer
- 5. 63 x 178 mm (2-1/2" x 7") wooden joists
- 6. 15 mm (9/16")Stravifloor Mat-W15<sub>3</sub> strip
- 7. 3 mm (1/8") Damping Layer
- 8. Oriented Strand Board (OSB) [3 x 18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



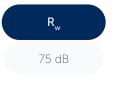


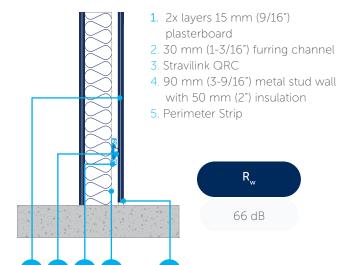


- 1. 19 mm (3/4") plywood
- 2. 38 mm (1-1/2") x 240 mm (9-7/16") wood joists, spaced 406 mm (16") on centers
- 3. 150 mm (5-7/8") fiberglass batt insulation
- 4. Stravilink QRC
- 5. 22 mm (7/8") metal furring channel
- 6. 2 layers 16 mm (5/8") plasterboard



- 1. 190 mm (7-1/2") heavy masonry
- 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







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.



# **References**Around the World

At CDM Stravitec, we take pride in the quality of work that we produce. Our extensive resume comprises over 10,000 projects completed since 1951.

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.

Our diverse project list includes recording studios, theatres, concert halls, residential buildings, manufacturing plants, medical facilities, schools, hotels, gyms, and more.



House of
Hungarian Music
(HU)
Stravilink WallFix
Stravilink QR
Stravifloor Channel
Stravimech Fix

TIFF Bell
Lightbox
(CA)
Stravifloor Deck
Stravilink WH
Stravilink WallStrip





Palácio Ludovice Wine Experience Hotel (PT)

Stravilink DCH-P

Vrije Universiteit
Amsterdam
(NL)
Stravilink IJH-P





100 Pearl Street Squash Court (USA) Stravilink WallFix



We have qualified engineers in noise and vibration based at different locations around the world – they are only a phone call away.

For general enquiries please contact our head office or visit our website.

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#### **DISCLAIMER**

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