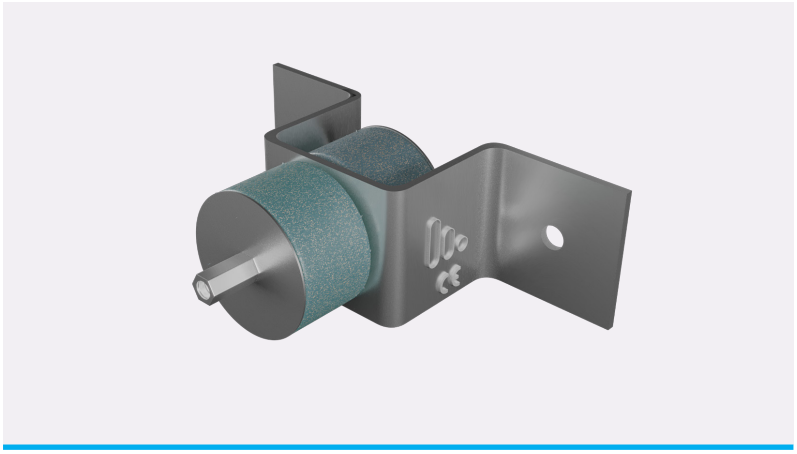


stravilink
by CDM Stravitec

SCAN ME

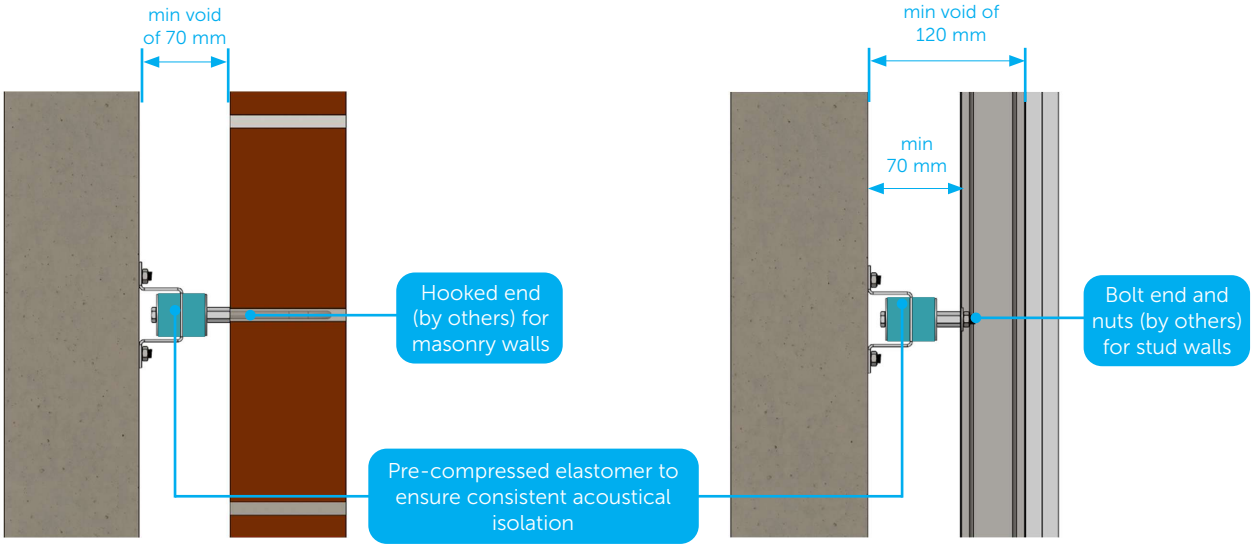
Scan here for access to solution website page for other documents

Stravilink WH
Datasheet

Stravilink WH is a resilient wall tie, 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).

BENEFITS

- Elastomeric pad is pre-compressed to enhance acoustic isolation, guaranteeing a natural frequency of 10 Hz at design load
- Ensure quiet space performs as designed
- Add structural integrity to isolated partitions, preventing wall buckling
- Fixings can be adapted to wall type: bolt end for stud walls or hooked end for masonry walls
- In stud walls, a minimum distance between the support wall and vertical profile of 70 mm is possible when using a metal C-stud of 50 mm wide, resulting in a minimum void of 120 mm
- In masonry walls, a minimum void depth of 70 mm is possible
- Can be adapted to meet different void depths by using longer studding or hooked bolt
- Each Stravilink WH wall tie can take up to 65 kg of assigned wall weight
- Steel parts are zinc-plated for long-term durability
- Two holes for direct fixing, allowing easy attachment to the supporting structure
- Easy to install



PACKAGING

Model	Reference	Quantity per Box	Weight per Box [kg]	Dimension of Box [cm]
Stravilink WH	002529	50	7.5	28 x 18 x 17

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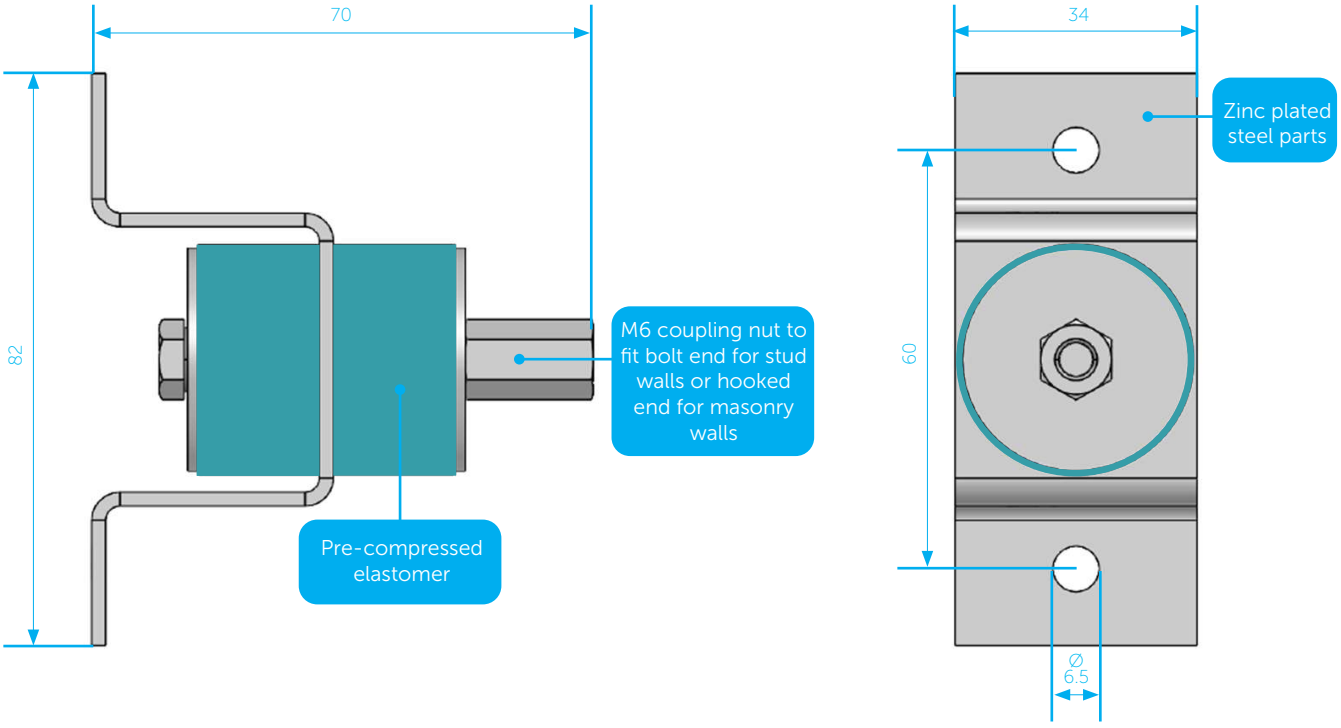
PHYSICAL & MECHANICAL PROPERTIES

Max. Assigned Weight [kg]	Max. Rated Axial Load [N]	Max. Deflection of Wall Support [mm]	Elastomer Colour
65	560	Masonry wall: up to 100 mm void: 8 Plasterboard wall: 100 mm up to stud: 8	Blue

Notes:
- 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.
- Maximum assigned weight = the maximum weight of the wall that is assigned to 1 wall tie, which will cause a dynamic axial load on the wall tie. See "Natural Frequency vs Assigned Weight" - graph for corresponding frequencies.
- Maximum rated axial load = (temporary) static axial load on the wall tie, e.g. windloads and impact loads. See "Axial Displacement vs Rated Axial Load" - graph for corresponding deflections.
- Resistance to vertical motion = maximum allowed vertical displacement. The deflection of the wall support should not exceed the maximum allowed vertical displacement of the wall tie.



Note:
All dimensions in milimeters (mm).

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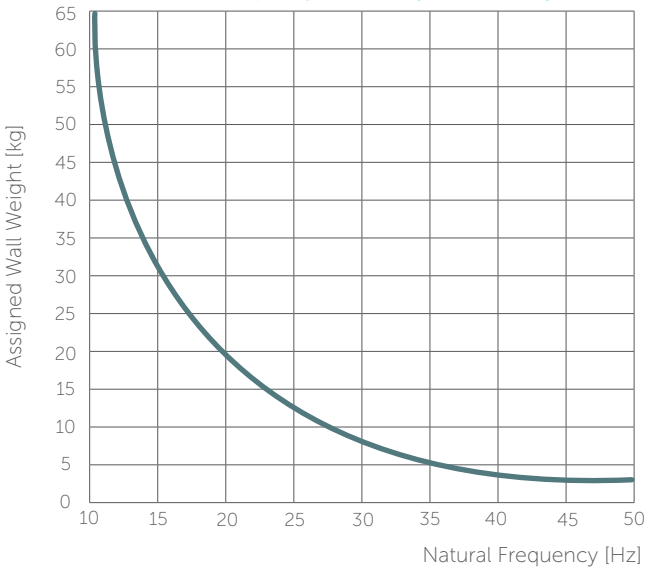
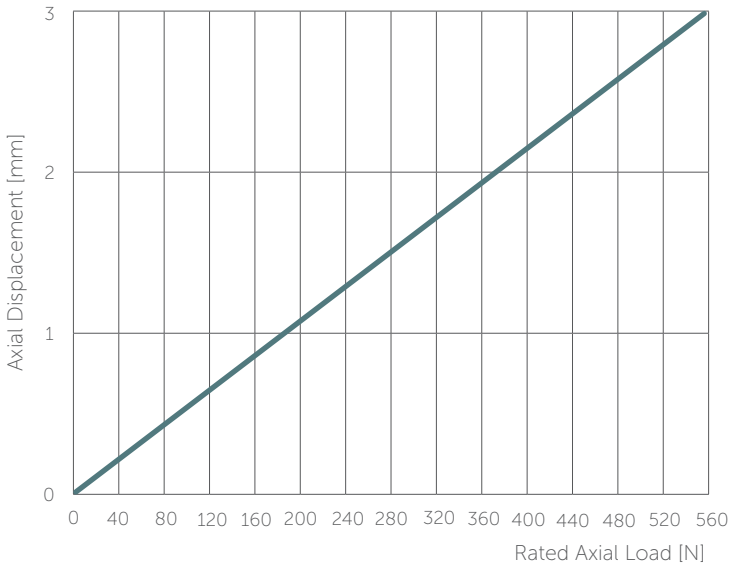
PERFORMANCE GRAPHS

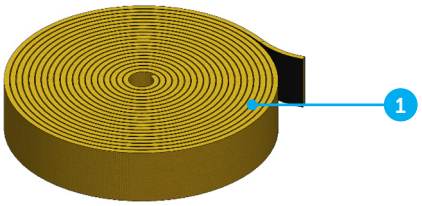
Natural Frequency under Assigned Wall Weight



Rated Axial Load and Deflection



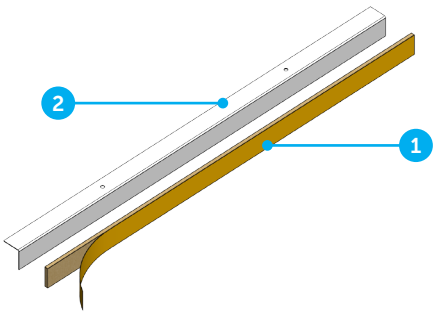
ACCESSORIES



Perimeter Strip

1. Self-adhesive perimeter strip 10 mm thick to isolate the isolated wall from the ceiling, floor or any wall penetrations.

Note:
Standard widths of 50 mm, 100 mm, and 150 mm are available in 10 lm rolls.

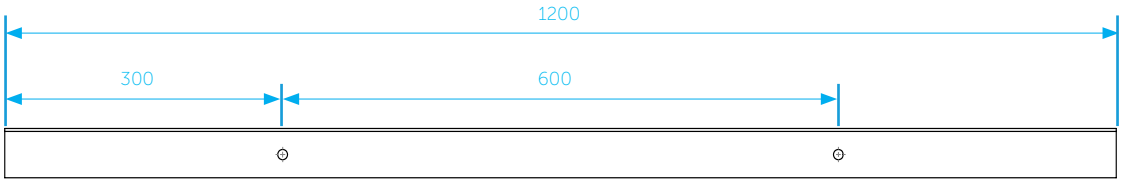


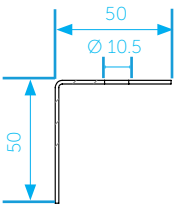
Stravilink RHD

A Resilient Head Detail isolating the head connection wall from the construction above whilst providing lateral restraint.

1. Self-adhesive perimeter strip 10 mm thick.
Note: Standard width of 50 mm, is available in 10 m rolls.

2. Steel angle 50 x 50 x 1.5 mm of 1.2 m in length.
Note: Including two clearance holes of 10.5 mm for fixation into ceiling.
Note: Max rated axial load = 360 N/lm.





Note:
All dimensions in millimeters (mm).

Notes:
Block walls can be supported using Stravilink WallStrip to minimize flanking transmission.
Stud walls can be supported and fixed with Stravilink WallFix to reduce flanking transmission and enhance structural integrity.

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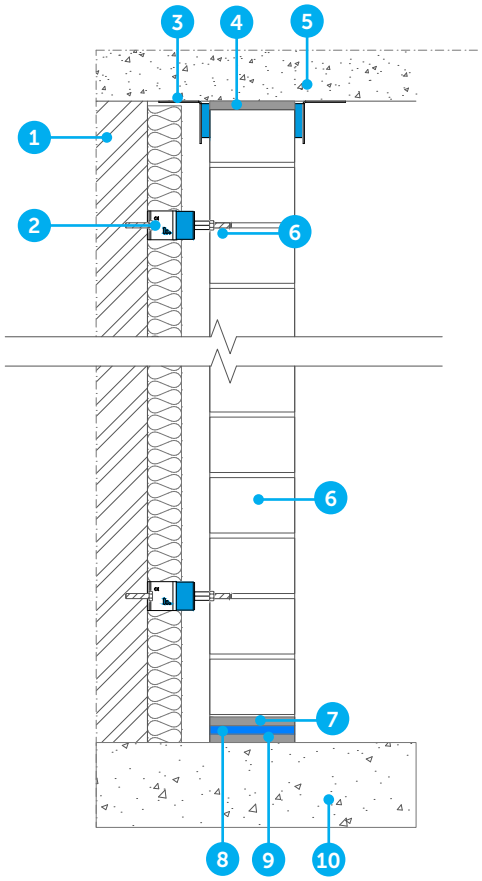
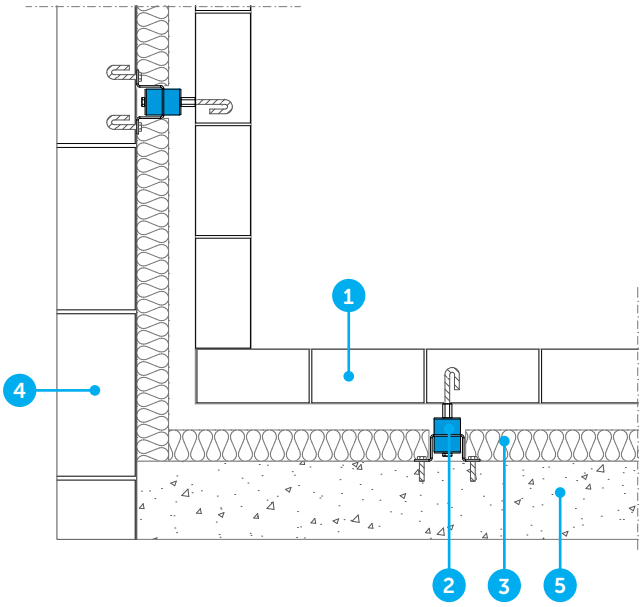
Masonry Wall - Elevation View and Plan View



1. Wall
2. Stravilink WH
3. Stravilink RHD
4. Stravilink WallStrip (optional)
5. Concrete slab
6. Masonry wall
7. Mortar bed
8. Stravilink WallStrip
9. Mortar bed (optional)
10. Base structure



1. Masonry wall
2. Stravilink WH
3. Absorption layer
4. Supporting wall (Masonry)
5. Supporting wall (Concrete)

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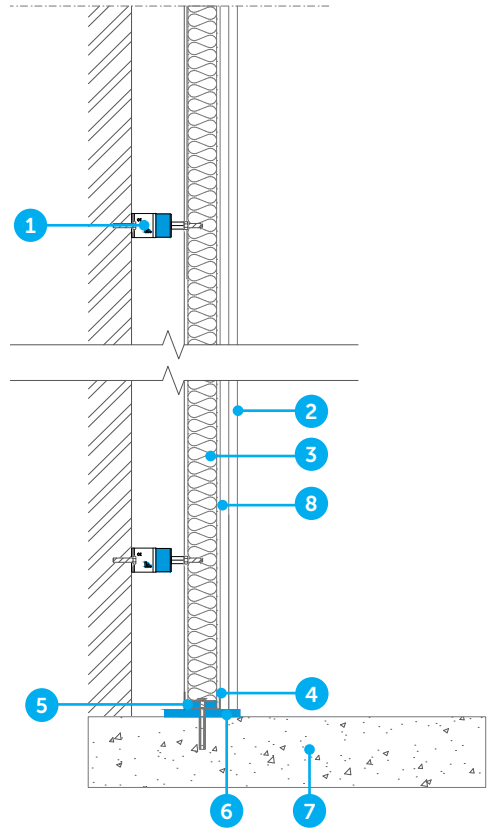
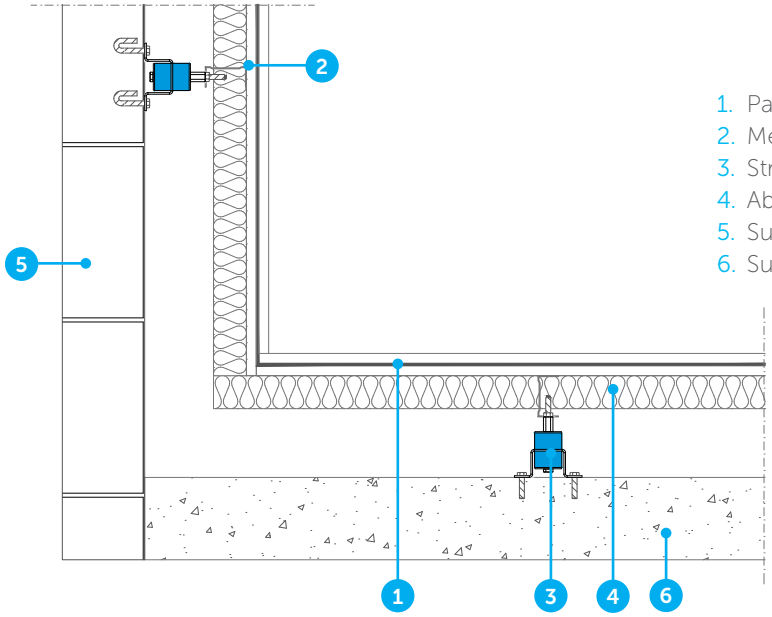
Partition Wall - Elevation View and Plan View



1. Stravilink WH
2. Plasterboards, gypsum boards, or dry lining (by others)
3. Absorption layer
4. Metal runner
5. Stravilink WallFix Washer
6. Stravilink WallFix Strip
7. Structural floor
8. Metal stud



1. Partition wall
2. Metal stud
3. Stravilink WH (at every metal stud)
4. Absorption layer
5. Supporting wall (Masonry)
6. Supporting wall (Concrete)

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ACOUSTIC RESULTS

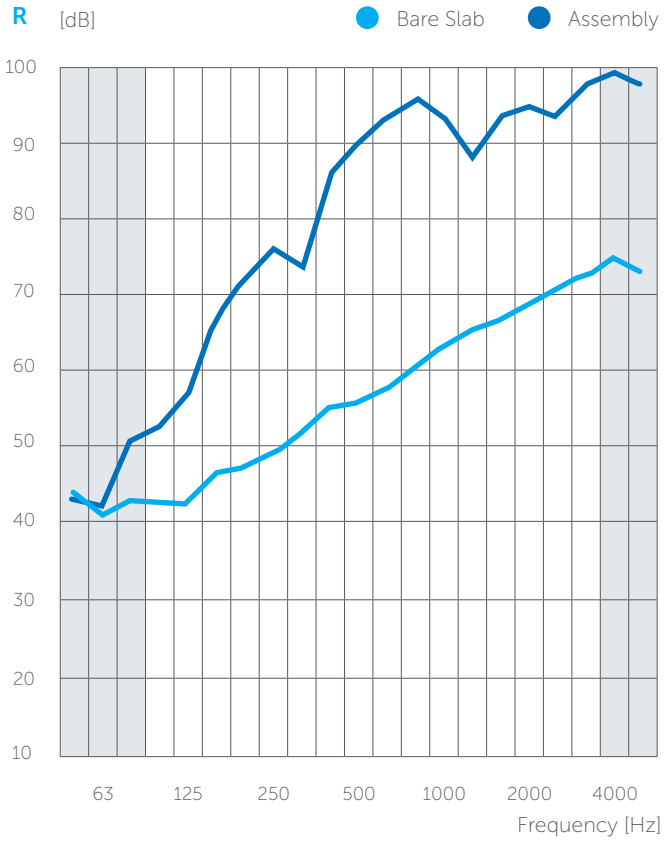
Test Setup 1

1. 190 mm heavy masonry wall
2. Stravilink WH
3. 152 mm total air cavity with 50 mm insulation material
4. 2x 12.5 mm gypsum board
5. Stravilink WallFix to secure and acoustically decouple the top and bottom of the stud structure

Setup	$R_W (C,C_{tr})$
Assembly	83 (-4;-12)
Support Wall	61 (-2;-6)

Laboratory report available upon request
Test report number TS-25-585-01

Frequency [Hz]	R [dB]	
	Assembly	Support Wall
50	43.6	44.4
63	42.9	41.8
80	51.1	43.4
100	53.4	43.4
125	57.4	43.2
160	66.8	46.9
200	72.2	47.9
250	76.0	50.0
315	73.6	52.5
400	85.4	55.5
500	89.7	56.5
630	93.2	58.1
800	95.4	60.9
1000	93.0	63.6
1250	87.5	65.5
1600	93.1	66.7
2000	94.4	69.0
2500	93.3	70.8
3150	97.5	72.5
4000	98.8	75.1
5000	973.	73.1



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