

stravilink
by CDM Stravitec



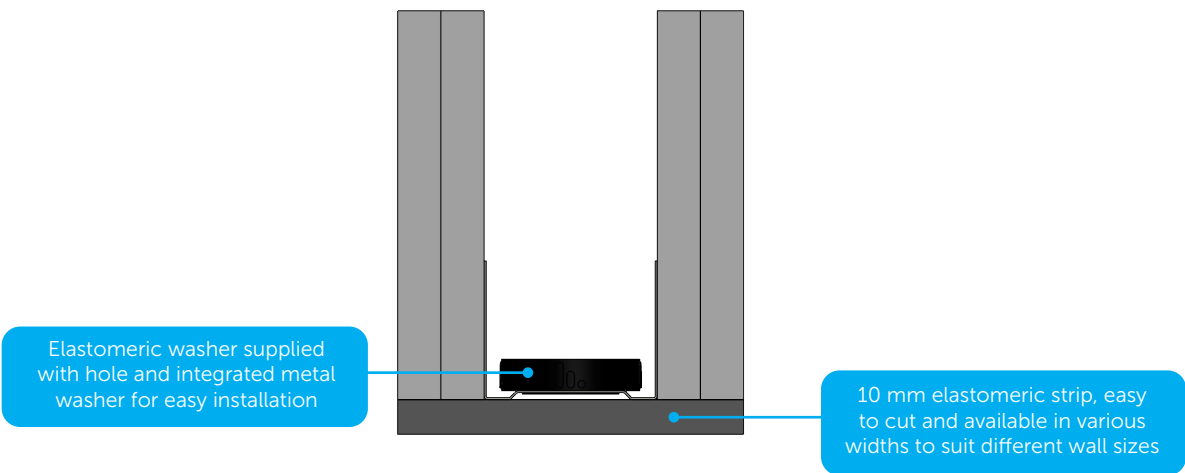
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Stravilink WallFix^{*} Datasheet

Stravilink WallFix is a sound-insulating wall system designed to acoustically isolate internal partition dry walls or wall lining systems. The system includes the [Stravilink WallFix Strip](#), an isolation strip installed beneath the metal runner (provided by others), and Stravilink WallFix Washer, elastomer washers used to fix the horizontal runner to the floor or ceiling. An optional accessory, the [Stravilink WallFix-Bracket](#), is a connector that decouples the wall from the structural wall. By fully decoupling the internal partition or double wall from all surrounding structural elements, Stravilink WallFix effectively interrupts the physical transmission path of vibration noise. The partition wall is completely free-standing and can be installed with any cavity width. The acoustic insulation performance depends on the cavity depth, which can be customised to meet specific requirements.

BENEFITS

- Ensures a perfect seal with the original structure while providing vibration and noise isolation
- Integrated elastomeric strips offer minimal creep, ensuring reliable long-term performance
- Standard sizing fits common metal stud runners (50 mm, 75 mm, and 100 mm); custom dimensions available on request
- Designed to accommodate dual layers of 12.5 mm gypsum board on both sides
- Can be installed at the top of stud partitions to provide a resilient upper restraint while maintaining acoustic isolation
- Can be combined with Stravilink RHD, resilient head detail, to decouple the wall head from the overhead structure while offering lateral stability
- Features a quick and straightforward installation process to reduce labour time and complexity
- Supplied with an elastomeric washer including a pre-formed hole and integrated metal washer for ease of installation
- The elastomeric strip comes in rolls, being easy to handle and cut on-site
- A cost-effective solution
- Can be combined with floating floors and isolated ceilings, enabling complete box-in-box acoustic constructions



PACKAGING

Model	Reference	Dimensions [mm]	Weight per Roll [kg]
Stravilink WallFix Strip-50	000361	10.000 x 50 x 10	3.55
Stravilink WallFix Strip-100	000362	10.000 x 100 x 10	7.10
Stravilink WallFix Strip-130	000723	10.000 x 130 x 10	9.23
Stravilink WallFix Strip-150	000364	10.000 x 150 x 10	10.65

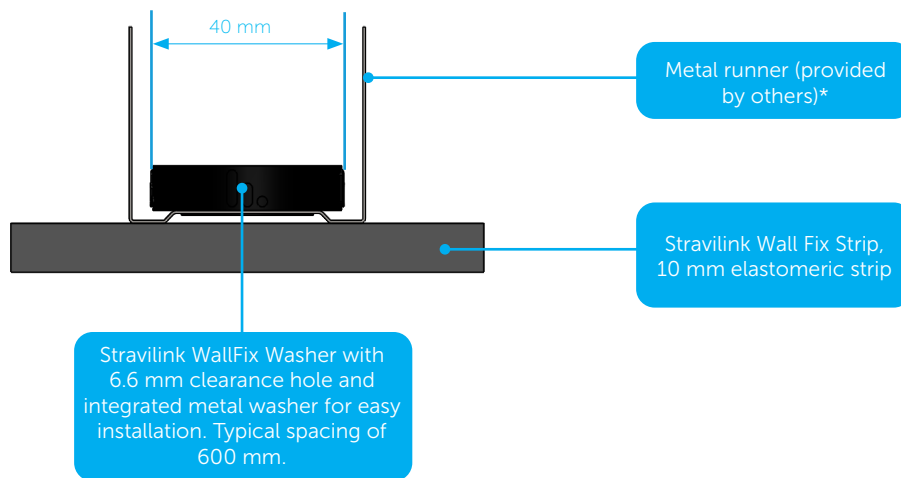
Model	Reference	Quantity per Box	Box Dimensions [mm]	Weight per Box [kg]
Stravilink WallFix Washer	001959	100	19 x 13 x 12	2.5

PHYSICAL & MECHANICAL PROPERTIES

Load Range [MPa]	Deflection Range [mm]	Thermal Conductivity [W/m°C]	Reaction to Fire		Density [kg/m³]
		According to EN 12667	According to EN 13501-1	According to DIN 4102	According to ISO 845
0.01-0.2	0.08-1.4	0.13	Class E	Class B2	710

Notes:

- The temperature range of use is between -30 and 70°C.
- In order to specify the correct Stravilink WallStrip solution our engineers will need to know the required acoustic performance, wall type and dimensions, and possible live loads.
- If necessary this system can work in parallel with special resilient fastening systems, as Stravilink WH, to reinforce the lateral stiffness of the isolated wall.

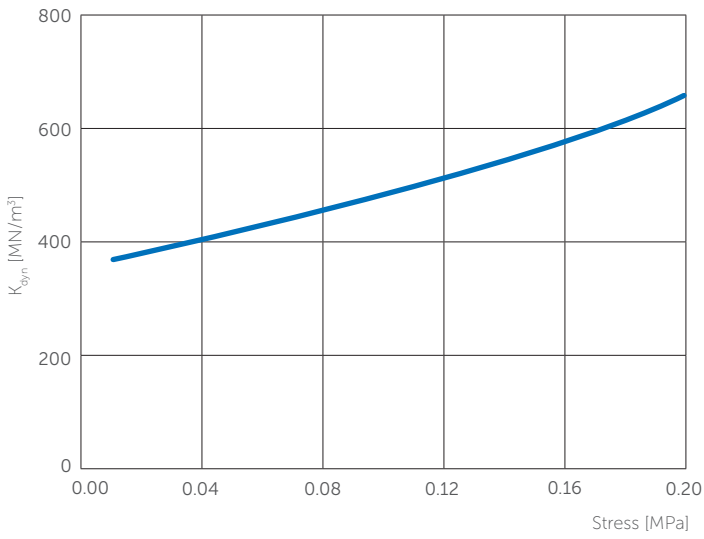


Notes:

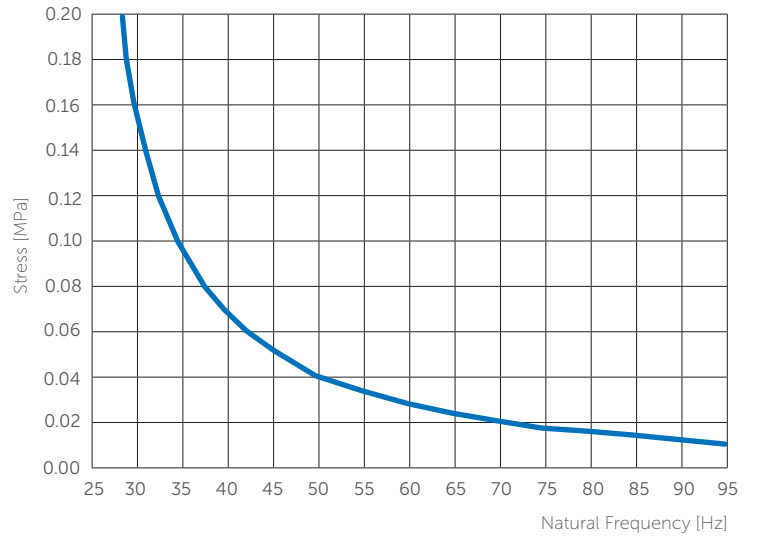
- *Holes should be pre-punched or opened on-site to allow for the fixation of the base stud. These holes must be larger than the diameter of the fixings - ideally twice the size - to ensure the fixings do not come into contact with the base stud, thereby avoiding any bridging of the acoustic isolation.

Stravilink WallFix Strip

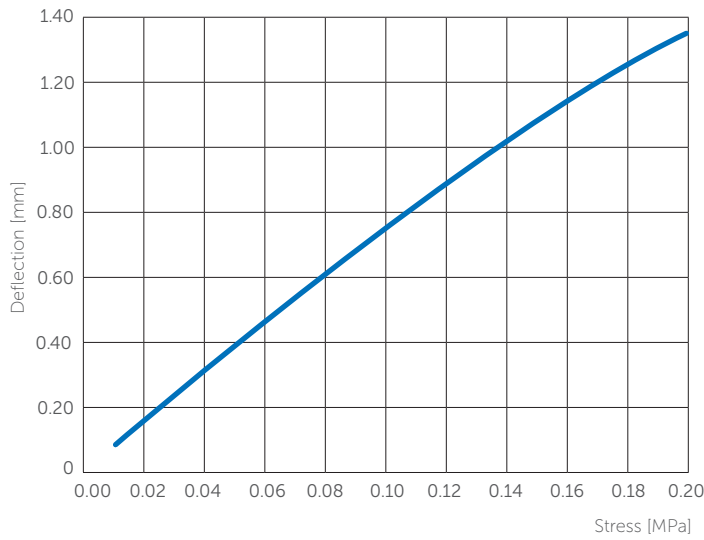
Dynamic Stiffness vs Stress



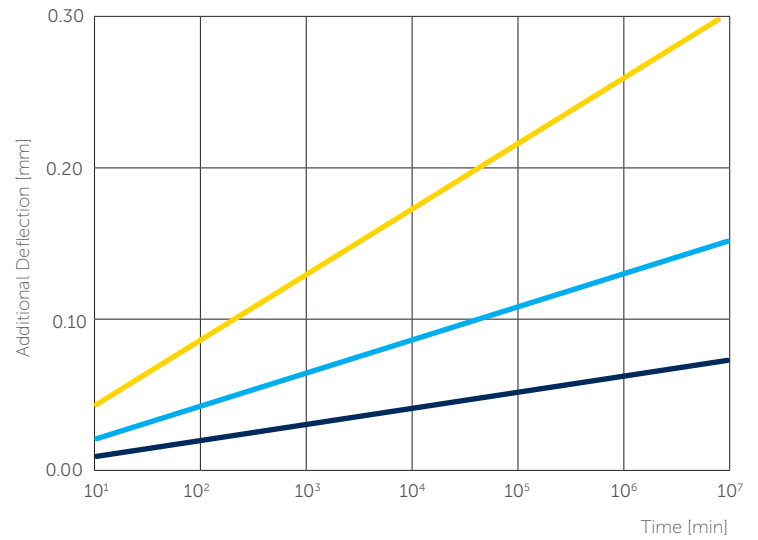
Natural Frequency vs Stress



Deflection vs Stress

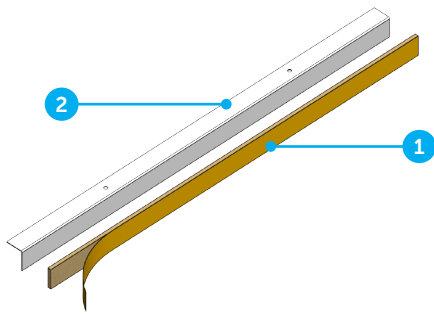


Additional Deflection by Creep



- For load of 0.05 MPa
- For load of 0.1 MPa
- For load of 0.2 MPa

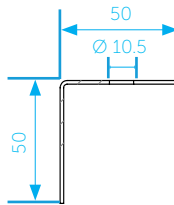
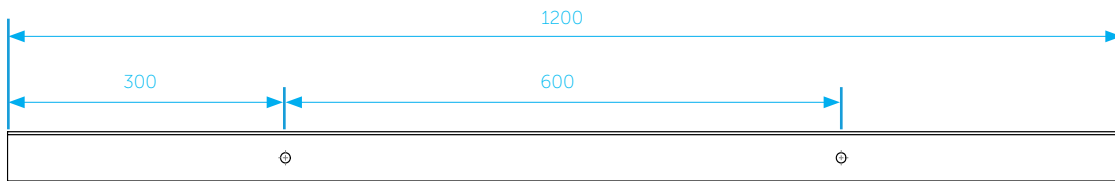
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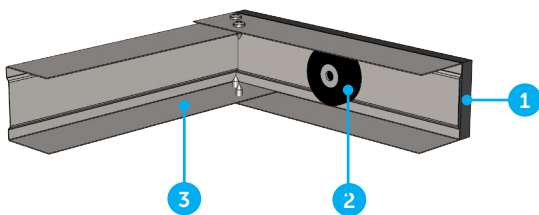
Stravilink RHD

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/m.



Note:
All dimensions in millimeters (mm).



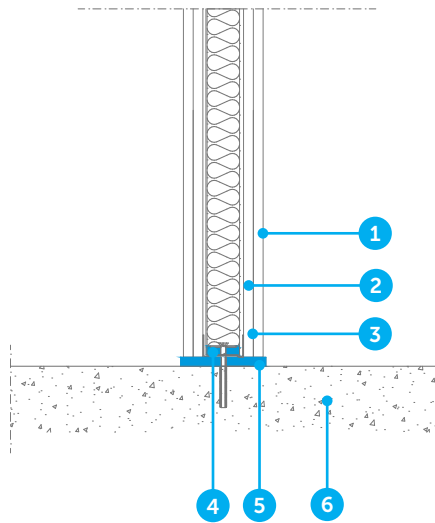
Stravilink WallFix Bracket

1. Stravilink WallFix Strip in 50 mm
2. Stravilink WallFix Washer
3. Metal bracket supplied by others

Max. Assigned Weight [kg]	Max. Rated Axial Load [N]	Max. Deflection of Wall Support [mm]
74	725	For void of 100 mm: 24 For void of 200 mm: 35

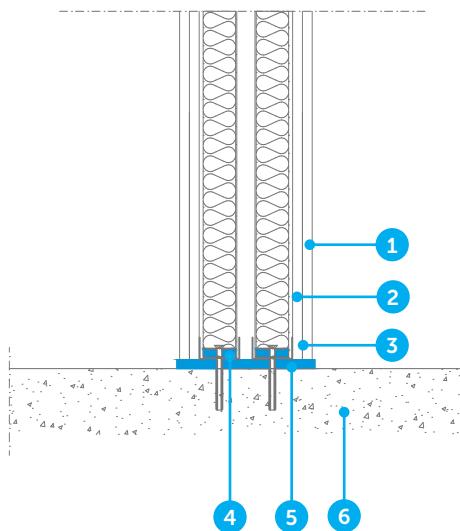


Single Partition Wall



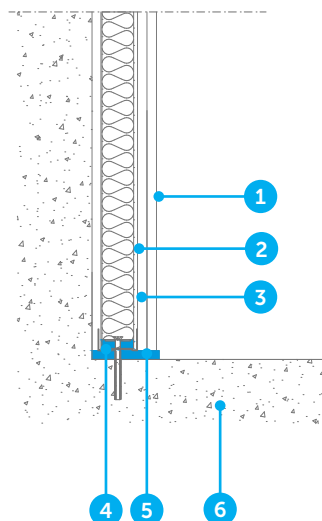
1. Plasterboards, gypsum boards, or dry lining (by others)
2. Absortion layer
3. Metal stud
4. Stravilink WallFix Washer
5. Stravilink WallFix Strip
6. Structural floor

Double Partition Wall



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

Wall Lining System



1. Plasterboards, gypsum boards, or dry lining (by others)
2. Absortion layer
3. Metal stud
4. Stravilink Wallfix Washer
5. Stravilink Wallfix Strip
6. Structural floor



Test Setup 1

- 2 layers of standard gypsum board 12.5 mm
- 100 mm metal stud frame supported by Stravilink WallFix Strip and with resilient fixations using Stravilink WallFix Washer (each 600 mm), with 80 mm insulation material
- 40 mm air void
- 100 mm metal stud frame supported by Stravilink WallFix Strip and with resilient fixations using Stravilink WallFix Washer (each 600 mm), with 80 mm insulation material
- 2 layers of standard gypsum board 12.5 mm

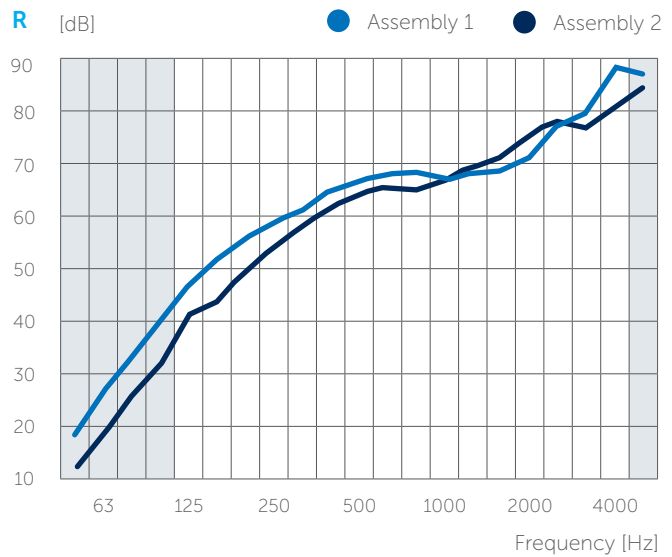
Test Setup 2

- 2 layers of standard gypsum board 12.5 mm
- 50 mm metal stud frame supported by Stravilink WallFix Strip and with resilient fixations using Stravilink WallFix Washer (each 600 mm), with 40 mm insulation material
- 40 mm air void
- 50 mm metal stud frame supported by Stravilink WallFix Strip and with resilient fixations using Stravilink WallFix Washer (each 600 mm), with 40 mm insulation material
- 2 layers of standard gypsum board 12.5 mm

Setup	$R_w (C; C_{tr})^{(1)}$	$R_w (C; C_{tr})$ of Standard Partition Wall ⁽²⁾
Assembly 1	57 (0)	58 (-5, -12)
Assembly 2	56 (0)	60 (-3,-10)

⁽¹⁾Laboratory report available upon request
 Setup 1: test report number AC-19-053-01
 Setup 2: test report number AC-19-053-02
⁽²⁾Values taken from literature (Gyproc + NBVG)

Frequency [Hz]	R [dB]	
	Assembly 1	Assembly 2
50	18.6	12.3
63	26.9	18.5
80	33.2	25.8
100	40.5	31.5
125	46.9	41.3
160	51.9	44.0
200	55.8	49.6
250	58.9	54.0
315	60.9	58.2
400	64.7	61.6
500	66.5	64.1
630	67.7	65.5
800	68.1	65.0
1000	67.1	66.3
1250	67.9	69.2
1600	68.4	71.0
2000	71.0	75.2
2500	77.0	77.9
3150	79.6	76.3
4000	87.7	80.1
5000	86.5	84.3



DISCLAIMER

This information is accurate to the best of our knowledge at the time of issue. Information, data and recommendations provided are based on industry accepted testing and prior product usage. It is intended as descriptive of the general capabilities and performance of our products and does not endorse applicability for any particular project. We reserve the right to change products, performance, and data without notice. This document replaces all information supplied prior to the publication hereof.



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Delta-L B.V. | CDM Stravitec Nederland

Delta-L is specialist op het gebied van geluidsisolatie en trillingsisolatie en ontwerpt, levert en monteert diverse systemen voor akoestische ontkoppelingen in de bouw en industrie.

Delta-L vertegenwoordigt CDM Stravitec op de Nederlandse markt. CDM Stravitec is opgericht in 1951 en is marktleider op het gebied van akoestische oplegsystemen voor de bouw en industrie en is actief in tientallen landen (30+ vestigingen wereldwijd).

Door onze expertise, jarenlange ervaring en grote database aan meetresultaten van zowel interne en externe laboratorium metingen als in situ metingen hebben we door de jaren heen een uitgebreid assortiment aan akoestische materialen ontwikkeld, welke we op een slimme manier verwerken in diverse akoestische systemen.

Tevens zijn wij hierdoor in staat u adequaat van dienst te zijn bij elke stap in het proces: analyse van het geluid of trilling probleem, het aanleveren van een akoestisch ontwerp, optimalisatie van het ontwerp, productie, levering en montage.

Er wordt continu gewerkt aan innovatie en optimalisatie van de akoestische systemen om uw wensen en eisen om te zetten in een deskundig advies op maat.