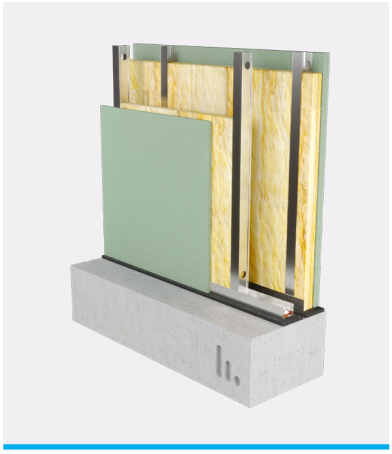




stravilink
by CDM Stravitec

SCAN ME

Scan here for access to solution website page for other documents

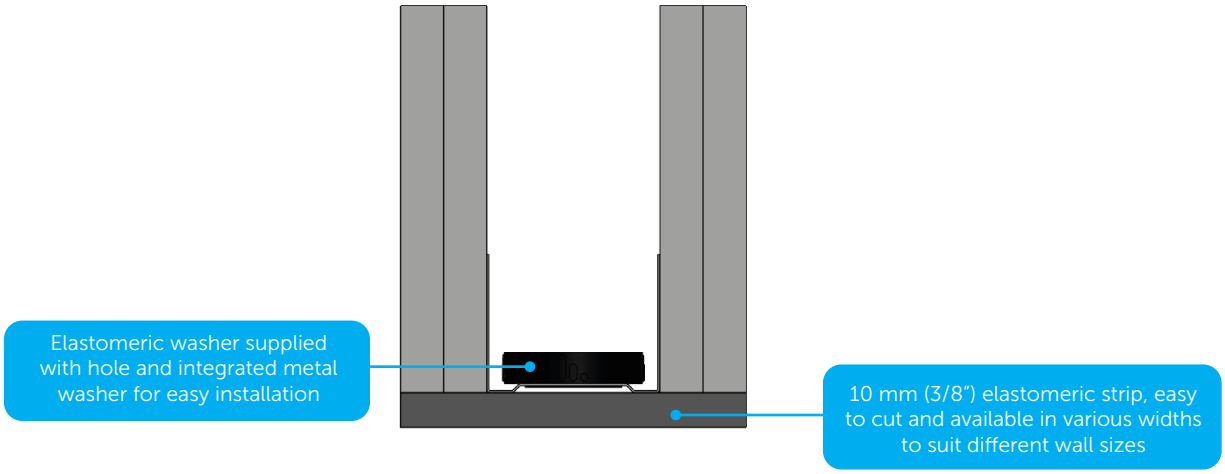
Stravilink WallFix*

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 (2"), 75 mm (3"), and 100 mm (4")]; custom dimensions available on request
- Designed to accommodate dual layers of 12.5 mm (1/2") 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



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

PACKAGING

Model*	Reference	Dimensions [mm (inch)]	Weight per Roll [kg (lbs)]
Stravilink WallFix Strip-75	002382	10000 x 75 x 10 (32'9" x 3" x 3/8")	5.33 (11.75)
Stravilink WallFix Strip-130	000723	10000 x 130 x 10 (32'9" x 5" x 3/8")	9.23 (20.35)

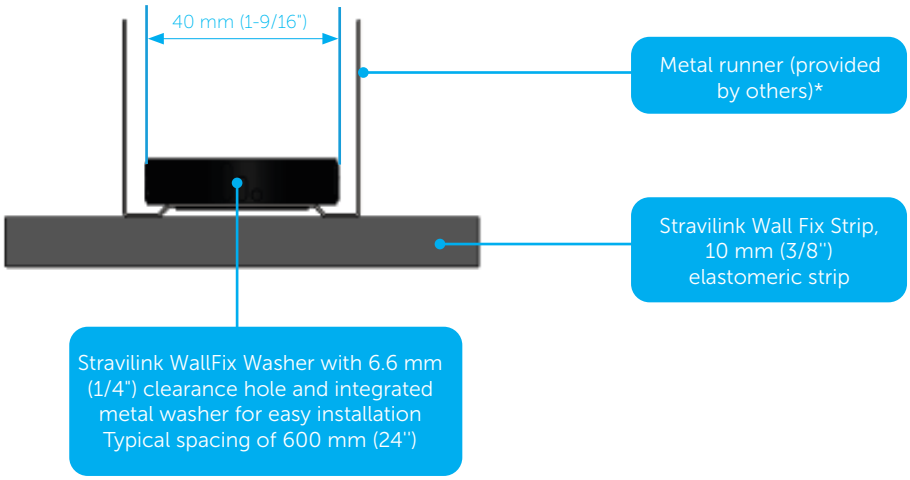
Other Stravilink WallFix Strip widths available, upon request.

Model	Reference	Quantity per Box	Box Dimensions [mm (inch)]	Weight per Box [kg (lbs)]
Stravilink WallFix Washer	001959	100	18 x 13.4 x 12.8 (7-1/16" x 5-1/4" x 5-1/16")	2.5 (5.5)

PHYSICAL & MECHANICAL PROPERTIES

Load Range [MPa (psi)]	Deflection Range [mm (inch)]	Thermal Conductivity [W/m°C (hr·ft·°F)]	Reaction to Fire		Density [kg/m³ (lb/in³)]
		According to EN 12667	According to EN 13501-1	According to DIN 4102	According to ISO 845
0.01-0.20 (1.45-29.00)	0.08-1.40 (0.003-0.050)	0.13 (0.0751)	Class E	Class B2	710 (40)

Notes:
- The temperature range of use is between -22 and 158ºF (-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.



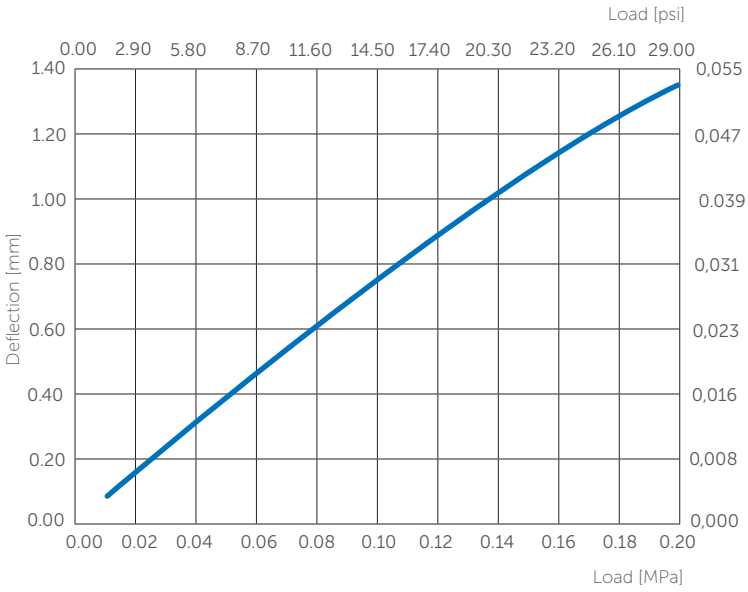
Notes:
*Holes should be pre-punched or opened on-site to allow for the fixation of the base stud.
These holes must be larger than the diameter of the fixings - ideally twice the size - to ensure the fixings do not come into contact with the base stud, thereby avoiding any bridging of the acoustic isolation.

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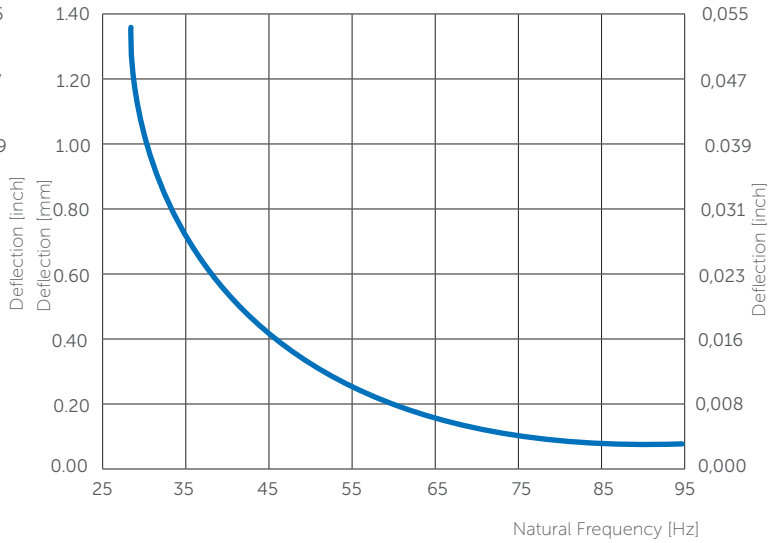
PERFORMANCE GRAPHS

Stravilink WallFix Strip

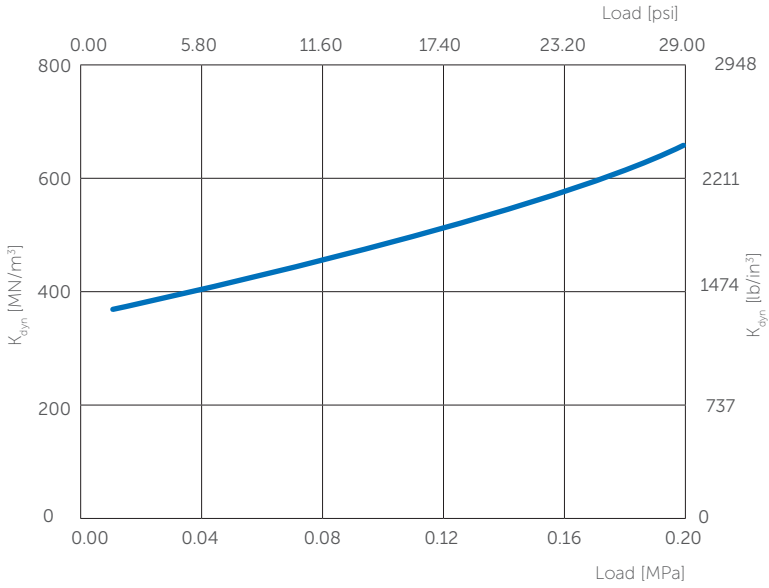
Defection vs Load



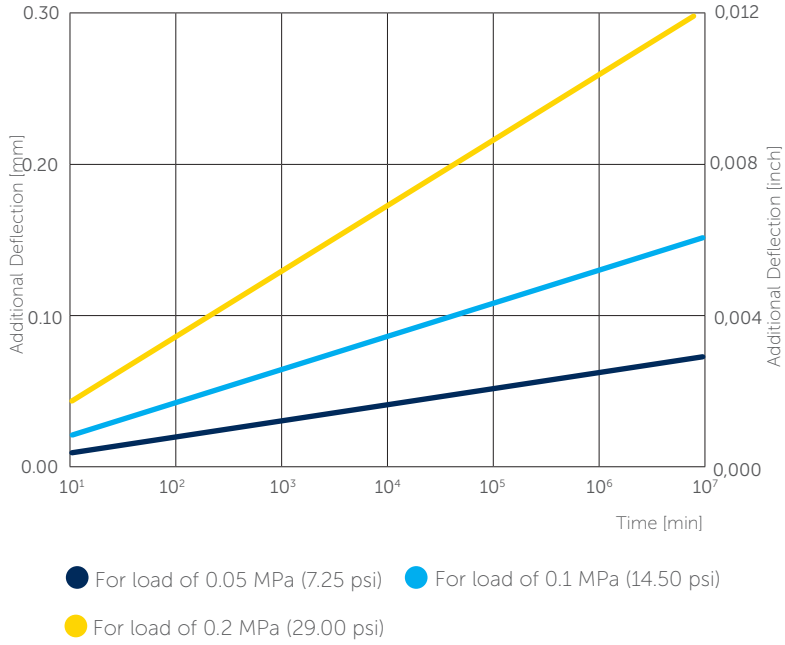
Deflection vs Natural Frequency



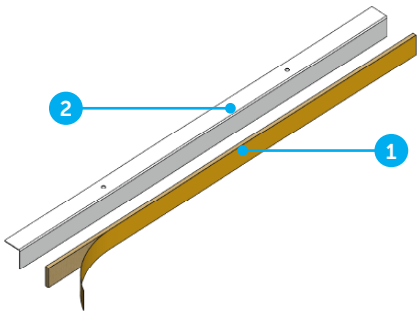
Dynamic Stiffness vs Load



Additional Deflection by Creep



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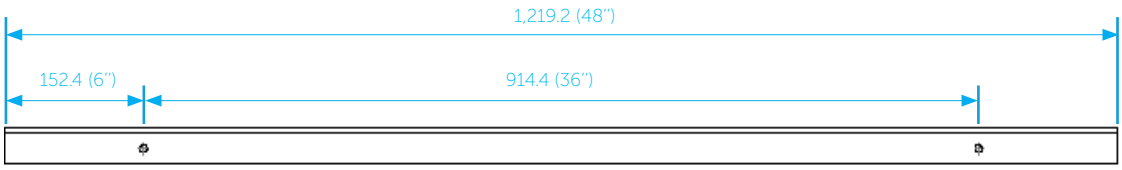


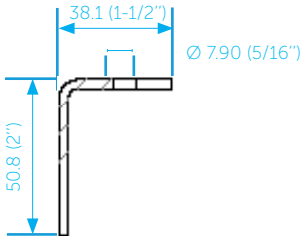
Stravilink RHD

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

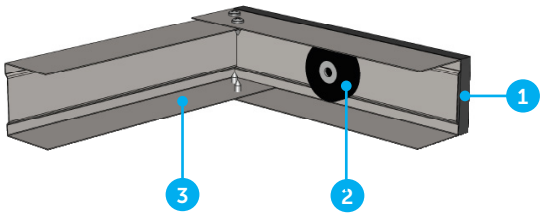
1. Self-adhesive perimeter strip 10 mm (3/8") thick.
Note: Standard width of 50 mm (2"), is available in 10 m (32' 9-11/16") rolls.

1. 2. Steel angle 50.8 x 38 x 3 mm (2" x 1-1/2", 11 gauge) of 1.2 m (48") in length.
Note: Including two clearance holes of 7.9 mm (5/16") for fixation into ceiling.





Note:
All dimensions in millimeters (inches).



Stravilink WallFix Bracket

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

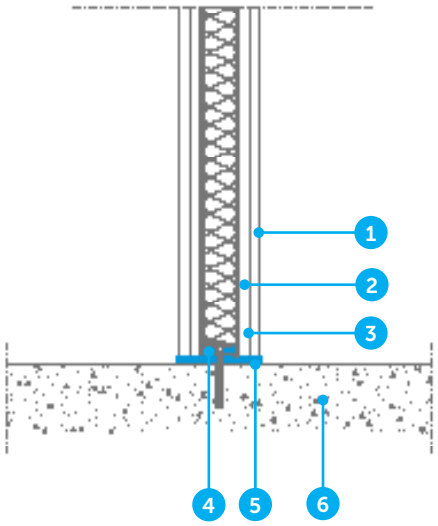
.

Max. Assigned Weight [kg (lbs)]	Max. Rated Axial Load [N (lbs)]	Max. Deflection of Wall Support [mm (inch)]
74 (163)	725 (163)	For void of 100 mm (4"): 24 (1") For void of 200 mm (8"): 35 (1-3/8")

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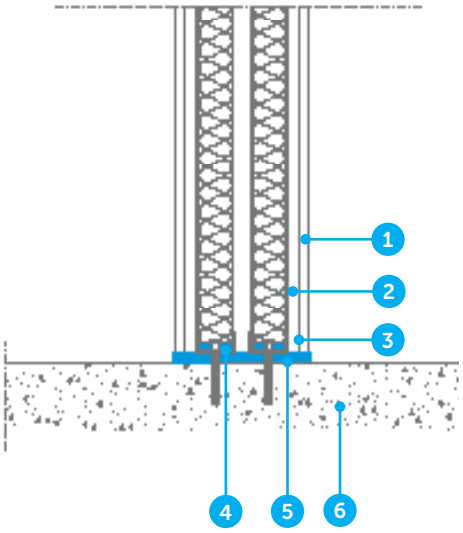
TYPICAL ASSEMBLIES

Single Partition Wall



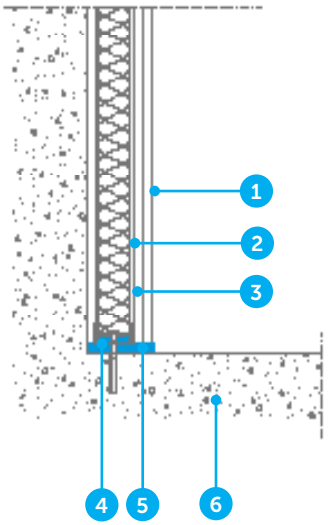
1. Plasterboards, gypsum boards, or dry lining (by others)
2. Absortion layer
3. Metal stud
4. Stravilink WallFix Washer
5. Stravilink WallFix Strip
6. Structural floor

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

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ACOUSTIC RESULTS

Test Setup 1

1. 2 layers of standard gypsum board 12.5 mm (1/2")
2. 100 mm (4") metal stud frame supported by Stravililnk WallFix Strip and with resilient fixations using Stravilink WallFix Washer [each 600 mm (24")], with 80 mm (3-1/8") insulation material
3. 40 mm (1-9/16") air void
4. 100 mm (4") metal stud frame supported by Stravililnk WallFix Strip and with resilient fixations using Stravilink WallFix Washer [each 600 mm (24")], with 80 mm (3-1/8") insulation material
5. 2 layers of standard gypsum board 12.5 mm (1/2")

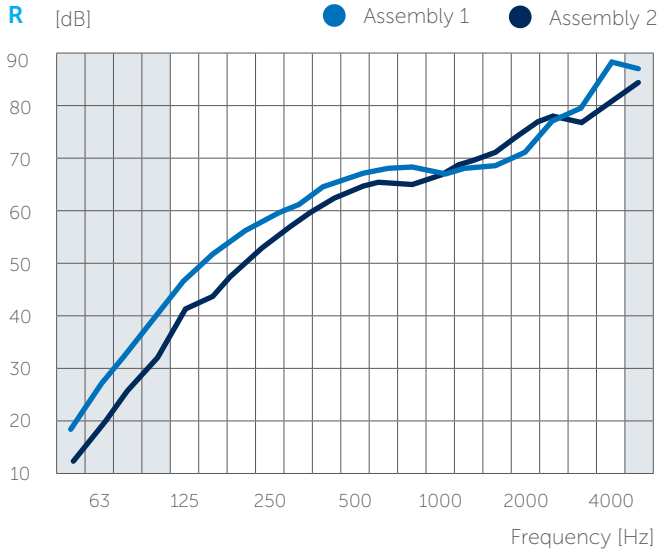
Setup	STC
Assembly 1	67
Assembly 2	64

Laboratory report available upon request
Setup 1: test report number AC-19-053-01
Setup 2: test report number AC-19-053-02

Test Setup 2

1. 2 layers of standard gypsum board 12.5 mm (1/2")
2. 50 mm (2") metal stud frame supported by Stravililnk WallFix Strip and with resilient fixations using Stravilink WallFix Washer [each 600 mm (24")], with 40 mm (1-9/16") insulation material
3. 40 mm (1-9/16") air void
4. 50 mm (2") metal stud frame supported by Stravililnk WallFix Strip and with resilient fixations using Stravilink WallFix Washer [each 600 mm (24")], with 40 mm (1-9/16") insulation material
5. 2 layers of standard gypsum board 12.5 mm (1/2")

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



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DISCLAIMER

The documentation prepared by CDM Stravitec (including but not limited to installation guidelines) contain generally accepted procedures for a successful installation of Stravilink WallFix for acoustically isolated ceiling hanger. Any part of the suggestions presented herein, or other documentation, may be followed, modified, or rejected by the owner, engineer, contractor, and/or their representative(s) since they, and not CDM Stravitec, are responsible for planning and execution procedures appropriate to a specific application. CDM Stravitec reserves the right to alter in part or in whole the documentation prepared as well any recommendations included. It is the responsibility of the Client (direct or indirect) to ensure they have always the latest documentation and to that effect CDM Stravitec encourage contact with its local representatives to review any project specific modifications to the suggested guidelines prior to the start of the installation on site.

This documentation prepared by CDM Stravitec contains loading information for the Stravilink WallFix for acoustically isolated walls. It should be noted that any loading information contained herein represent the loading information for the Stravilink WallFix only as supplied to the Client.

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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