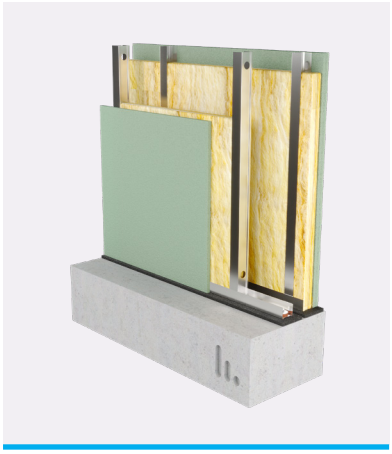

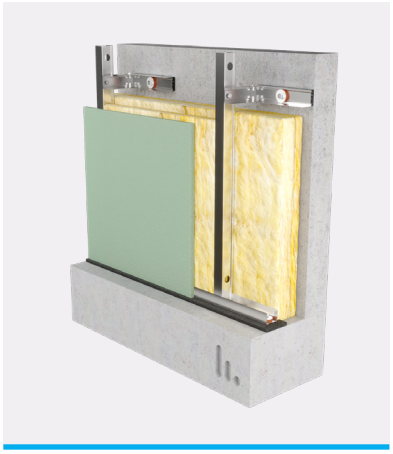

stravilink
by CDM Stravitec

SCAN ME

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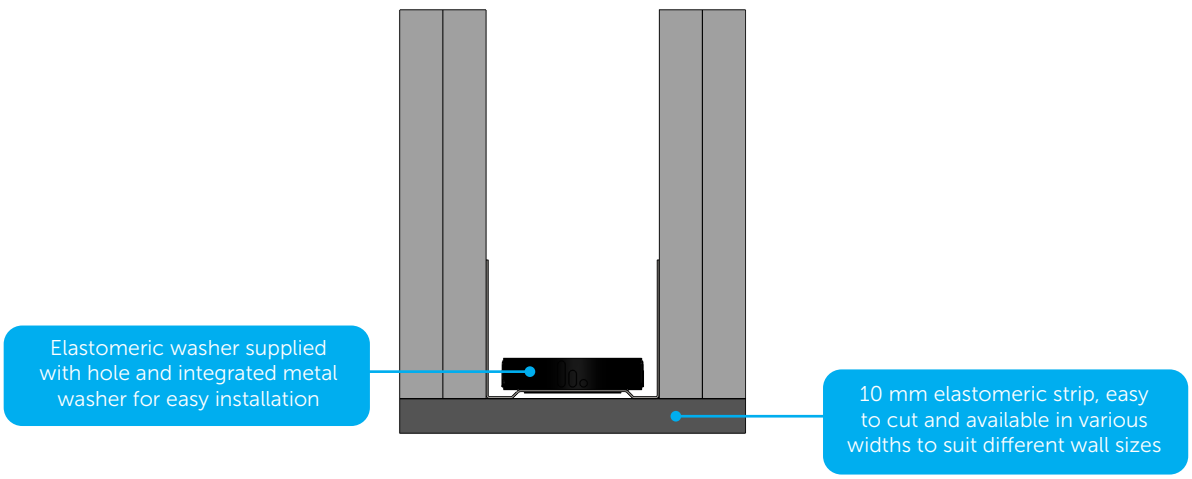
# Stravilink WallFix*

## 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



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## PACKAGING

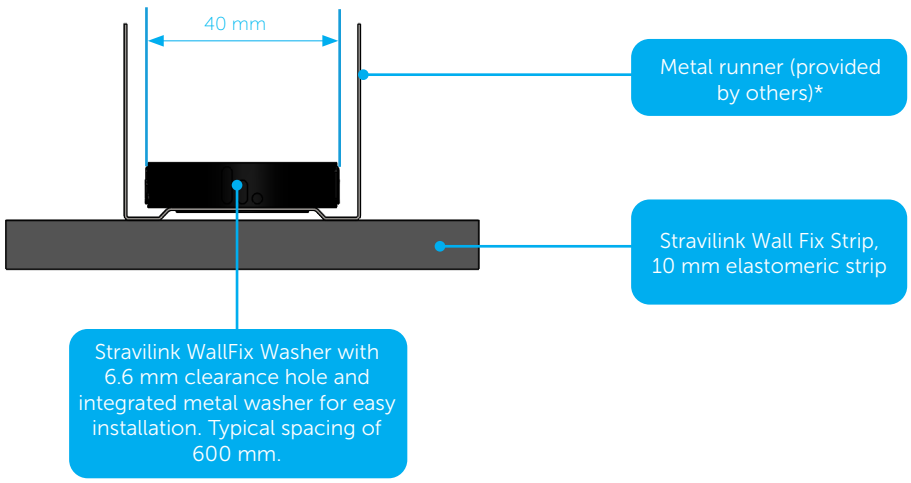
| Model | Reference | Dimensions [mm] | Weight per Roll [kg] |
|---|---|---|---|
| Stravilink WallFix Strip-50 | 000361 | 10.000 x 50 x 10 | 3.55 |
| Stravilink WallFix Strip-100 | 000362 | 10.000 x 100 x 10 | 7.10 |
| Stravilink WallFix Strip-130 | 000723 | 10.000 x 130 x 10 | 9.23 |
| Stravilink WallFix 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 | 18 x 13.4 x 12.8 | 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.

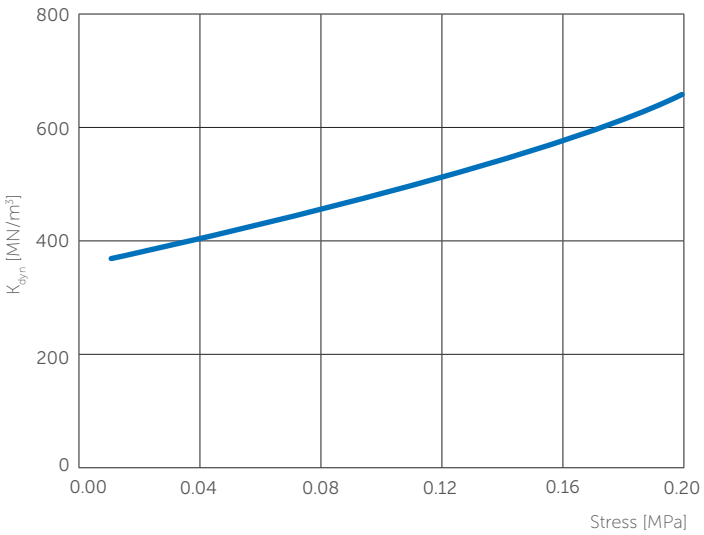



Notes:
*Holes should be pre-punched or opened on-site to allow for the fixation of the base stud.
These holes must be larger than the diameter of the fixings - ideally twice the size - to ensure the fixings do not come into contact with the base stud, thereby avoiding any bridging of the acoustic isolation.

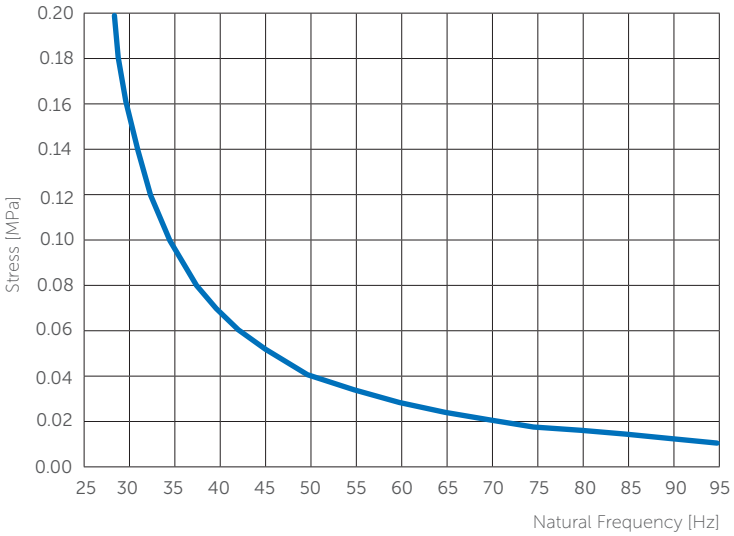
## PERFORMANCE GRAPHS

### Stravilink WallFix Strip

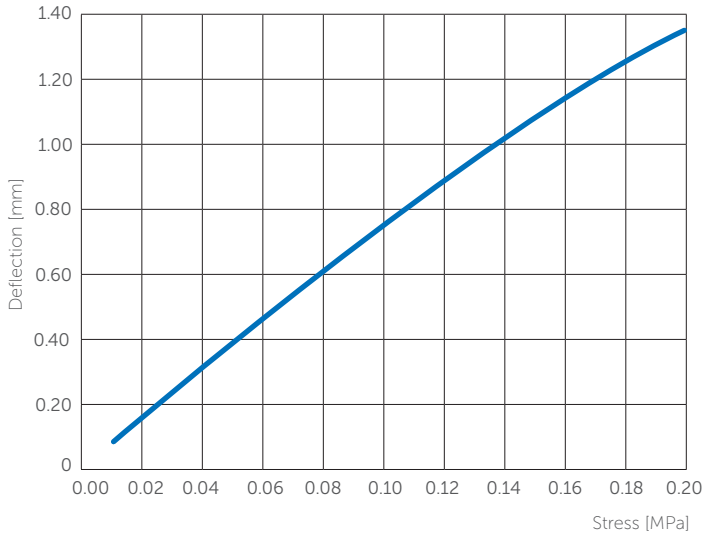
#### Dynamic Stiffness vs Stress



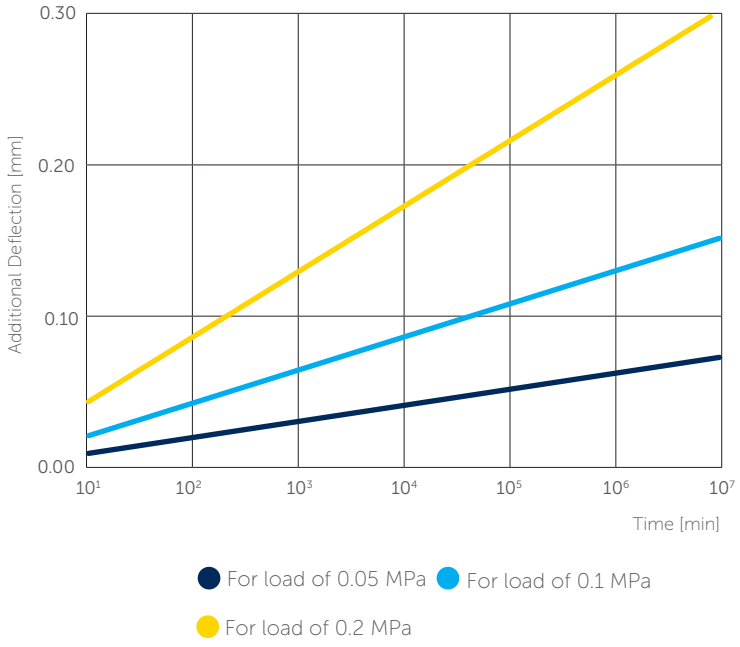

#### Natural Frequency vs Stress



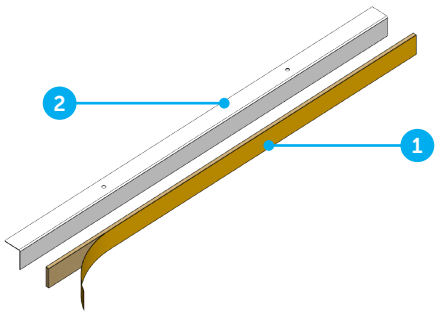

#### Defection vs Stress




#### Additional Deflection by Creep



## ACCESSORIES

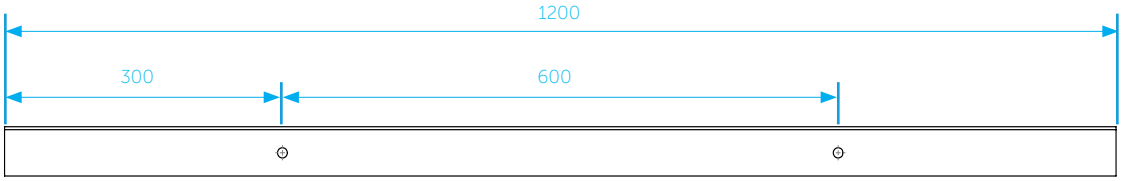


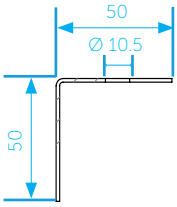

### Stravilink RHD

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).

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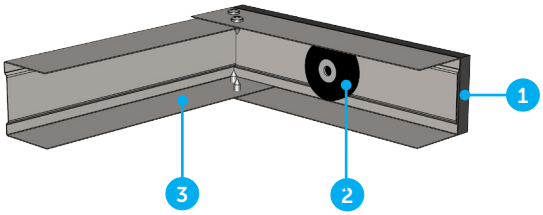



### Stravilink WallFix Bracket

1. Stravilink WallFix Strip in 50 mm

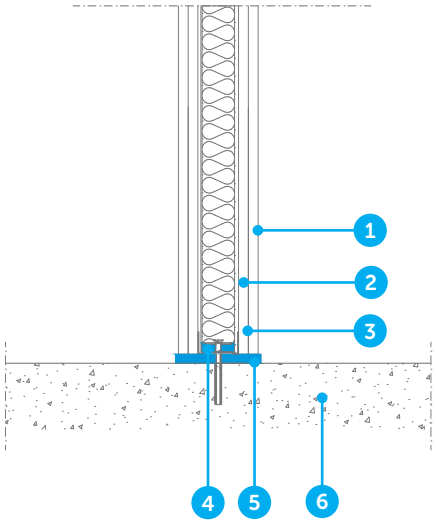
2. Stravilink WallFix Washer

3. Metal bracket supplied by others

.

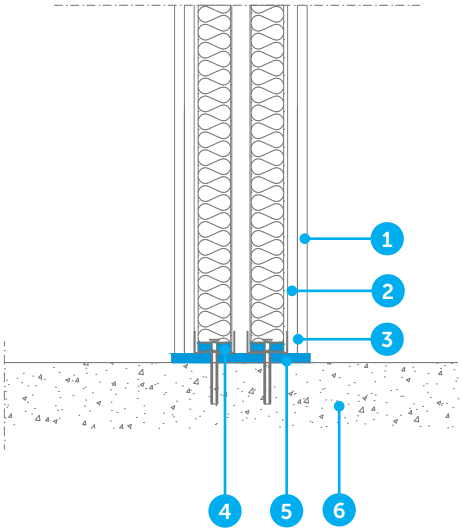
| Max. Assigned Weight [kg] | Max. Rated Axial Load [N] | Max. Deflection of Wall Support [mm] |
|---|---|---|
| 74 | 725 | For void of 100 mm: 24<br>For void of 200 mm: 35 |

## Single Partition Wall



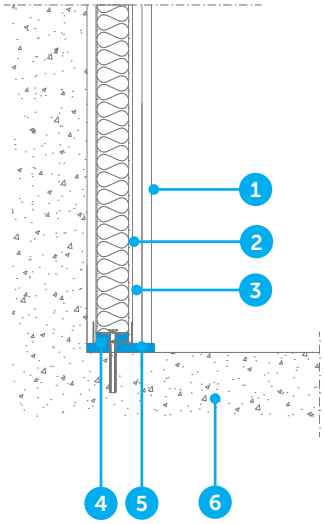

1. Plasterboards, gypsum boards, or dry lining (by others)
2. Absortion layer
3. Metal stud
4. Stravilink WallFix Washer
5. Stravilink WallFix Strip
6. Structural floor

## 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

## ACOUSTIC RESULTS

### Test Setup 1

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

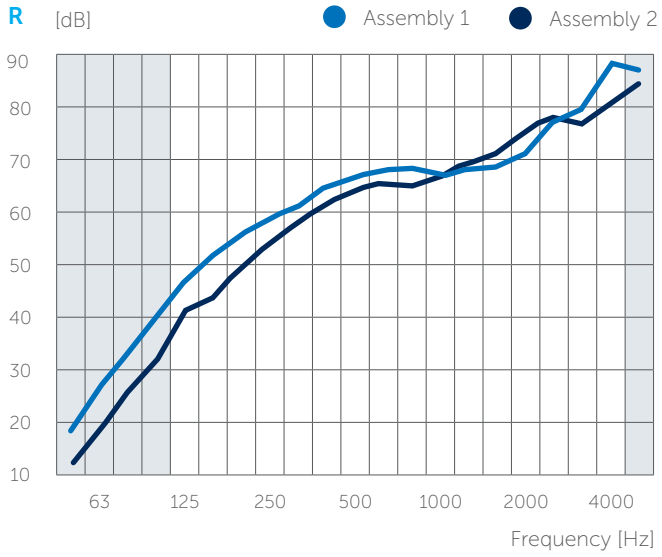
### Test Setup 2

1. 2 layers of standard gypsum board 12.5 mm
2. 50 mm metal stud frame supported by Stravililnk WallFix Strip and with resilient fixations using Stravilink WallFix Washer (each 600 mm), with 40 mm insulation material
3. 40 mm air void
4. 50 mm metal stud frame supported by Stravililnk WallFix Strip and with resilient fixations using Stravilink WallFix Washer (each 600 mm), with 40 mm insulation material
5. 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 | 67 (-3; -9) | 58 (-5; -12) |
| Assembly 2 | 63 (-5; -13) | 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 |



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