

Stravibase Fix

Datasheet



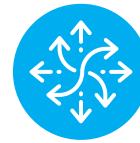
Easy
Installation



Durability &
Performance



Horizontal
& Vertical
Application



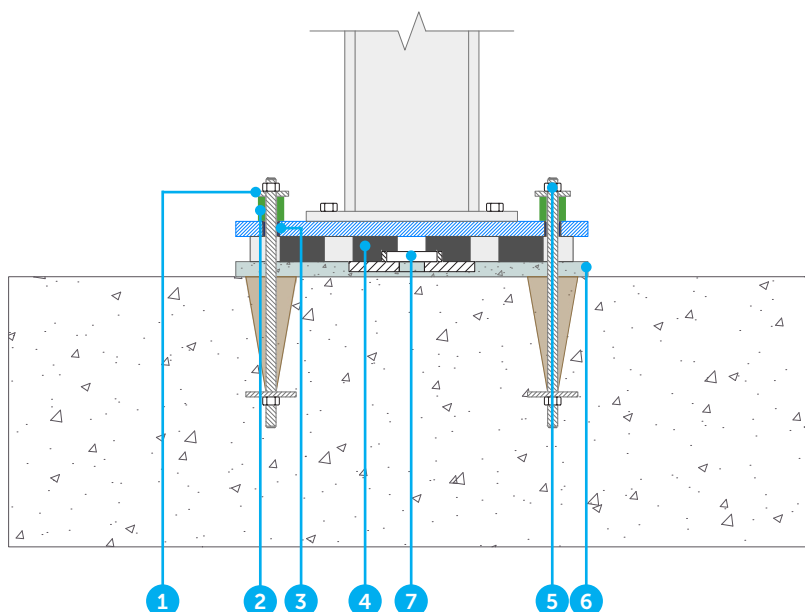
Compatible with steel,
wood & concrete
constructions

Stravibase Fix is a structural elastic fixation, designed to meet natural frequencies between 4 Hz and 20 Hz.

Stravibase Fix allows for a total vibration isolation and acoustic decoupling of the bolt connections of the main structural elements of a building (columns, beams, walls, etc.) and can be applied vertically or horizontally.

A Stravibase Fix solution comprises:

- **Stabilizer cap:** its objective is to apply the precompression uniformly on the stabilizer.
- **Stabilizer:** the stabilizer is an elastomeric washer located in each fastening element. Its objective is to ensure a safe decoupling of the isolated part from the nut.
- **Isolation sleeve:** the isolation sleeve is located inside the fixing holes. Its objective is to decouple the fixing bolt from the isolated structure.
- **Isolator:** the isolator is the main bearing designed to meet the acoustic requirements. The isolator can be either the Stravibase SEB, the Stravibase VHS or the Stravibase Spring. For more information, please refer to their respective datasheets.



1. Stabilizer cap
2. Stabilizer
3. Isolation sleeve
4. Isolator (Stravibase SEB)
5. Holding down bolts
6. Grouting for surface leveling
7. Failsafes (optional)



DESIGN REQUIREMENTS

For each project, the CDM Stravitec engineering service will help you find the optimum Stravibase Fix solution to achieve the acoustic performance required and the load bearing resistance needed to withstand the static and dynamic forces in your structure. For this reason, our team will require:

- Natural frequency requirements;
- The vertical and lateral load combinations (including dead loads and variable loads such as service live loads, wind loads, etc.);
- Occasional loads for stability checks;
- Contact surface area at each load point;
- Location of any fixing bolt;
- Substructure and superstructure drawings (sections, plan views, etc.).

Note:

All CDM Stravitec elastomeric bearings are designed according to the EN1337-3 and BS6177 principles. EN 1337-3: Structural Bearings - Part 3: Elastomeric Bearings. BS6177: Guide to selection and use of elastomeric bearings for vibration isolation of buildings.



EXTRA FEATURES

Depending on the clients' needs and the intended use of the building, additional architectural and structural design considerations may be required by the project design team.

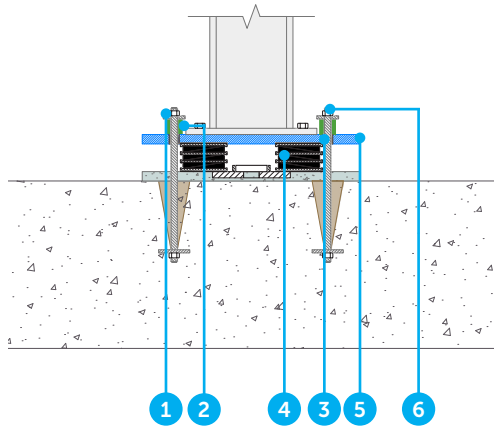
CDM Stravitec will support the design team with integrating all possible additional features to the Building Base Isolation solutions (failsafes, shear keys, etc.); with the objective of maintaining the integrity and durability of the solutions without compromising the acoustic performance of the bearings.

Notes:

- Stravibase Fix is recommended for most isolated steel-to-steel connections to avoid acoustic bridges between the fixation bolts and the isolated areas.
- Stravibase Fix allows to overcome uplift forces. The eventual uplift during column erections or due to horizontal loads (such as wind and seismic loads) can be controlled applying a pre-defined pre-compression.
- All CDM Stravitec elastomeric bearings are designed according to the EN1337-3 and BS6177 principles.
- For more information about the main isolators, please refer to the datasheets of Stravibase VHS, Stravibase SEB and Stravibase Spring.

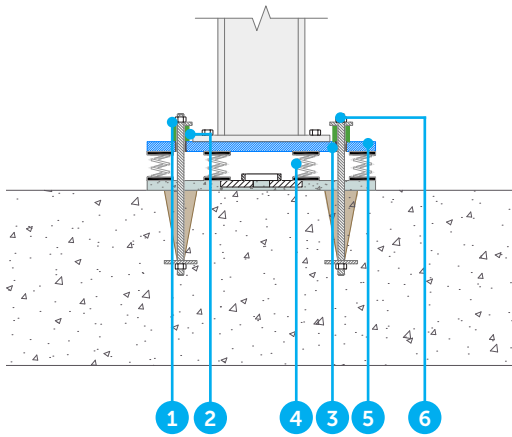


TYPICAL ASSEMBLIES



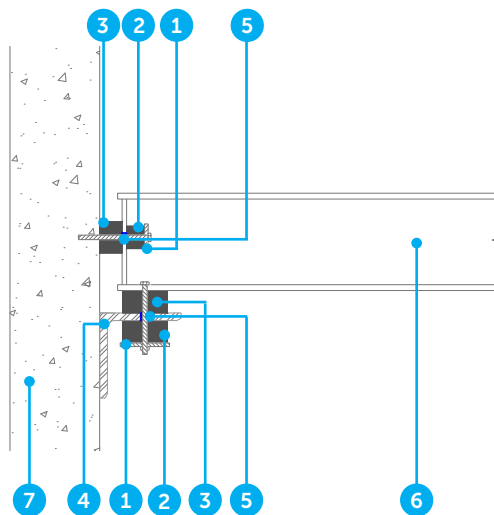
Stravibase Fix with Stravibase VHS

1. Stabilizer cap
2. Stabilizer
3. Isolation sleeve
4. Isolator (Stravibase VHS)
5. Top plate
6. Holding down bolts



Stravibase Fix with Stravibase Spring

1. Stabilizer cap
2. Stabilizer
3. Isolation sleeve
4. Isolator (Stravibase Spring)
5. Top plate
6. Holding down bolts



Vertical and horizontal application

1. Stabilizer caps
2. Stabilizers
3. Isolators
4. L-profile
5. Isolation sleeves
6. Steel beam
7. Concrete column

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.