



Stravibase SEB

Datasheet



Easy
Installation



Durability &
Performance



Replaceable
& Inspectable



Compatible with steel,
wood & concrete
constructions

Stravibase SEB stands for **Structural Elastomeric Bearing**. It consists of a series of elastomeric bearings (natural or recycled rubber) designed to meet natural frequencies above 6Hz. Stravibase SEB can be manufactured in a variety of dimensions to accommodate acoustic design loads up to 10 MPa. The solution is suitable for all types of applications (columns, supporting walls, beams, etc.). Depending on the application, it can be laminated to a formwork on one or both sides.



DESIGN REQUIREMENTS

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

- The natural frequency requirements;
- 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 areas of each contact point;
- Drawings with sections from substructure and superstructure (plan views, sections, etc.).



EXTRA FEATURES

Depending on the clients need 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 Stravibase SEB solutions (failsafes, shear keys, etc.); with the objective of maintaining the integrity and durability without compromising the acoustic performance of the bearings.



PHYSICAL & MECHANICAL PROPERTIES

Elastomer	CDM-80	CDM-81	CDM-82	CDM-83	CDM-45	CDM-46
Frequencies [Hz]	6 – 25	6 – 25	6 – 25	6 – 25	10 – 25	10 – 25
Thicknesses [mm]	10 - 80	10 - 80	10 - 80	10 - 80	20 – 60	20 – 60
Load Range [MPa]	0.2 - 0.8	0.3 - 1.5	1.0 - 3.2	2.00 - 10	0.5 - 1.6	0.1 - 2.5

Notes:

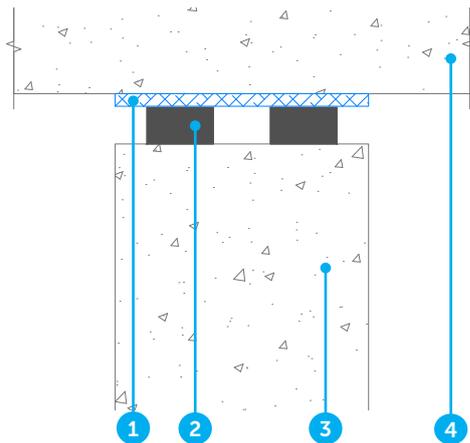
All CDM Stravitec elastomeric bearings are designed based on the EN1337-3 and BS6177 principles. EN1337-3 - Structural bearings – Part 3: elastomeric bearings. It is important to note that the scope of application of the EN1337-3 covers a broad range of applications. CDM Stravitec bearings are only applicable to the building application. BS6177: guide to selection and use of elastomeric bearings for vibration isolation of buildings.

All CDM Stravibase SEB bearings show a creep rate which do not exceed 5% of the initial deflection (complying to BS6177 recommendations).

All CDM Stravitec bearings go through a rigorous testing programme. Materials datasheets are available on demand.

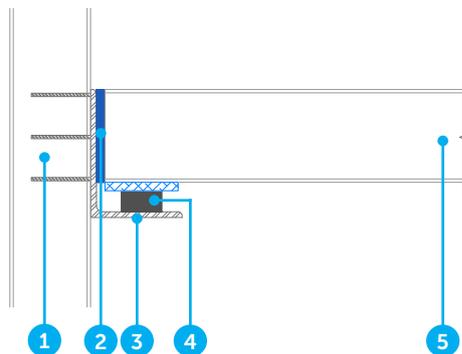


TYPICAL ASSEMBLIES



Vertical & Lateral Isolation

1. Formwork
2. Stravibase SEB
3. Substructure
4. Superstructure



Steel beam to column application

1. Column
2. Stravibase Mat
3. L-profile
4. Stravibase SEB
5. Beam

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.