MASS-SPRING SYSTEM (MSS) STRIP BEARING

INSTALLATION GUIDELINE

1. Transport and storage

- Always transport in original packaging.
- Damaged packaging should be immediately repaired (using plastic foil and adhesive tape).
- Storage should be in a dry environment in original packaging.
- Protection from direct sunlight is preferred.
- After removing the original packaging, protect from moisture.
- Do not store at temperatures below -20 °C or above +50 °C.
- Strip bearings are generally delivered pre-cut on pallets.
- During transport and storage, ensure the rolls are placed upright to prevent deformation.
- Side mats are generally delivered pre-cut on pallets.
- When storing, ensure that pallets are not stacked.
- The conditions (including temperature) at the storage location must match those at the installation site. If there is a significant temperature difference, it is recommended to acclimate the MSS for at least 24 hours.
- When stored correctly, the systems can be stored for years and used at any time.

2. Installation

Substrate preparation

The substrate must be swept clean. Standing water must be avoided. The surface must be free of sharp edges. Loose items like stones must be removed using suitable tools.

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Installation of Getzner MSS

Position the strip bearings according to the installation plan. Any length adjustments or fitting of the strips can be made using a utility knife or similar tool.

Option 1: lost formwork (e. g., precast concrete elements or metal plates)

The lost formwork is placed directly on the strip-type bearings. All joints of the formwork must be carefully sealed to prevent concrete from entering cavities. Suitable materials include mortar, construction foam, or foil.

During concreting, ensure that seals and joints are not damaged.

Option 2: filler material

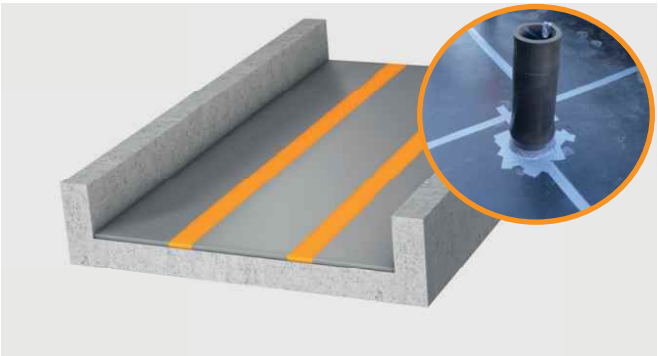
The spaces between the strip bearings are completely filled with the specified filling material. Any length adjustments or fitting of the filler material can be made using a utility knife or similar tool.

Ensure that all penetrations are elastically decoupled, especially:

- Drainage pipes
- Electrical cables
- Other installations

Wrap and decouple all existing structural elements such as shear dowels, drainage shafts, and pipes completely. All mat joints must be sealed using the supplied adhesive tape.

For curves, adjustment cuts on site are necessary.



Sealing mat joints

The joints must be covered and sealed with tape (min. 5 cm wide) to prevent concrete or concrete slurry from penetrating during pouring.

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Installation of side mats

We recommend fixing side mats to the wall using polyurethane adhesive.

Apply the adhesive over the full surface with a notched trowel using a solvent-free two-component polyurethane adhesive. The surface temperature must match the manufacturer's specifications, and the surface must be dry. Adhesive can be ordered directly from Getzner Werkstoffe. Reference: approx. 1 kg of adhesive per m^2 of side mat.

Note: When using adhesives containing diisocyanates, personnel must be trained and certified in accordance with EU Regulation 2020/1149. You can find more information via link https://safeusediisocyanates.eu/.

After installation, inspect the sealed mat joints visually. If joints are not properly sealed, sound bridges can occur, potentially reducing or entirely negating the effectiveness of the vibration isolation. Therefore, we recommend covering the entire MSS with a transparent PE sheet. The MSS must not be driven over by vehicles.

Reinforcement

After preparation, the MSS acts as permanent formwork. Reinforcement as calculated by a qualified engineer must be installed according to the reinforcement plan. Ensure the mats are not damaged during this process. Excessive surface loads or deformations must be avoided using standard concrete spacers.

If any damage occurs, the affected areas must be repaired and resealed to avoid sound bridges. In elevated track slab systems, adequate load distribution must also be ensured.

Concreting process

Before concreting, a final inspection and approval are necessary, checking the correct use of mats, the execution of joints, and proper sealing.
Concrete for the slab is poured, compacted, and leveled. The responsible construction company is in charge of this process.

Further construction work

After concreting, superstructure work can continue as on any other construction site, e. g.:

- Laying of tracks
- Elastic sealing of joints

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3. Service life and recycling

Mass-spring systems made of Sylomer® and Sylodyn® are long-lasting elastomer products. At the end of the structure's service life, MSS can be mechanically removed and thermally recycled.

Waste generated during installation can be disposed of for recycling via standard plastic waste containers. None of our materials pose any environmental hazards.

4. Disclaimer

This installation instruction is only intended to support and advise customers and their contractors during the installation of Getzner Mass-Spring Systems. Getzner Werkstoffe outlines therein known requirements and challenges. These installation instructions have been prepared with the utmost care.
However, due to the wide range of different construction methos and requirements, Getzner Werkstoffe cannot assume any liability for the completeness of the installation instruction. In particular, Getzner Werkstoffe is not responsible for the correct installation of Getzner's mass-spring systems. In the event of an incorrect installation, Getzner Werkstoffe is not liable for any negative effects on the properties / quality of Getzner's mass-spring systems or their performance.
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