MM® SSP+ Series Expansion Joint

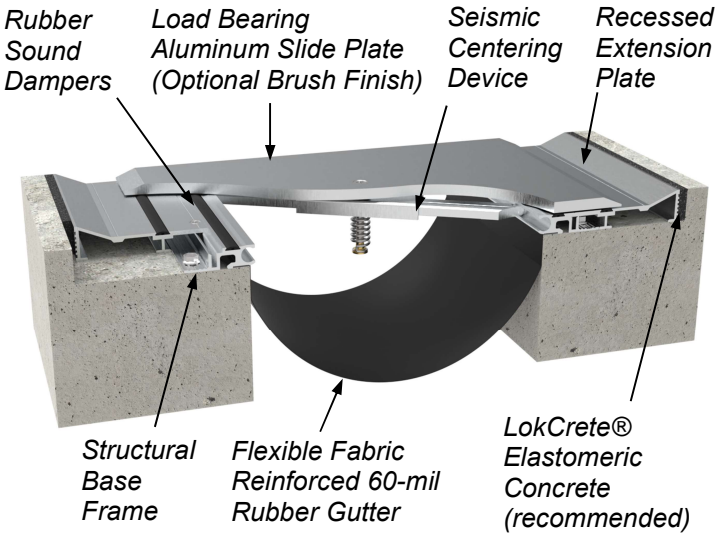
Seismic Slide Plate System (13”-24”)

SPEC DATA

MM Systems • 50 MM Way, Pendergrass, GA 30567 • 706.824.7500 • www.mm.systems

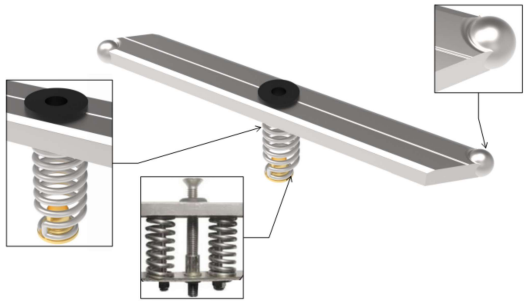
DESCRIPTION

The SSP+ Series is designed for extra wide expansion joint openings with the ability to accommodate heavy loading and multi-directional seismic movement. Recessed extension plates allow the seismic slide plate to remain flush with finished deck surface. A seismic centering device with impact dampers and displacement springs allow the slide plate to displace and return to its natural position after a seismic occurrence. The integral impact and sound damper also acts as a waterstop. Combining a reinforced rubber gutter in conjunction LokCrete® Elastomeric Concrete enhances the system’s waterproofing capability.



BASIC USE

SSP+ is a traffic bearing expansion joint for parking structures (convention centers, concourse areas, etc.) and other open-air structures requiring seismic movement capability. Contact MM for SSP-XD Xtreme-Duty Series, SNB interior seismic “no-bump” series, and SSS seismic stainless steel series.



FEATURES

- For wide joints with multi-directional seismic movement.
- AASHTO HS-20 load carrying capability.
- Heavy-duty aluminum base members with interlocking frame design insures proper alignment.
- Fabric reinforced rubber gutter provides added moisture protection.
- Recessed extension plates allow for a smooth slab-to-slab transition.
- Complies with ADA guidelines.

SPECIAL FEATURES

- Cover Plate slides on rubber impact/sound damper which doubles as a waterstop.
- Solid aluminum seismic centering device with dynamic load impact damper. (Not plastic)
- LokCrete® - hard, elastic, abrasion resistant embed material that flexes with deck loads.
- Fire Barriers - MM expansion joint systems are available with 2 - 4 hour fire protection ratings.

STORAGE

- LokCrete should be stored in a cool, dry location 60-80°F (15-27°C).

SEISMIC CENTERING DEVICE

Structural Seismic Centering Device, aluminum bar with solid aluminum ball ends, rubber impact damper and adjustable single or dual tension springs – an industry first invented by MM Systems.

PACKAGING

Aluminum extrusion in 10-foot lengths shipped on wooden pallets. LokCrete is supplied in pre-measured Part A, B and C components. Accessories packaged in cardboard cartons.

PRECAUTIONS

LokCrete - Use splash goggles and chemical resistant gloves to avoid prolonged or repeated skin contact. Use with adequate ventilation. In case of eye contact, immediately flush (low pressure) with lukewarm water. In case of skin contact, immediately wash skin with soap and water. Read and follow labels and Material Safety Data Sheet before use.

LIMITATIONS

- Concrete blockouts must be properly formed, finished and have sound substrate.
- Joints located in turning lanes or exposed to forktruck traffic must be engineered for greater impact loads – contact MM Systems.

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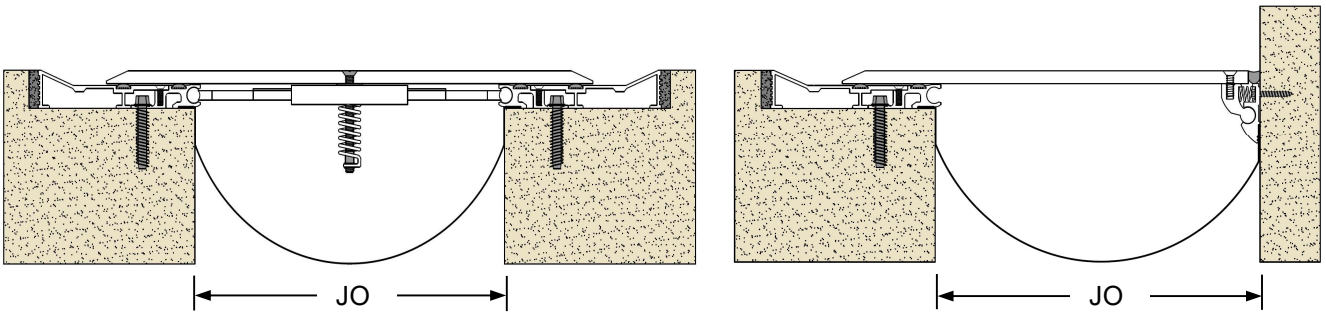

SSP+ Series (Slab-to-Slab)

SSP–C+ Series (Slab-to-Wall)

Standard Seismic 13-to-24-inch (nominal) with ±50% Expansion/Contraction/Shear
For Custom Seismic 25-inch (nominal) and larger with up to ±100% Expansion/Contraction/Shear contact MM Systems

JO – Joint Openings shown on contract drawings are normally calculated as a nominal dimension when the concrete deck temperature (not ambient air temperature) is at 65 degrees Fahrenheit. Joint opening dimensions may vary as the deck temperature changes. Typically, as the deck temperature decreases, concrete decks shrink subsequently widening or opening the concrete joint gaps. Likewise, as the deck temperature increases, concrete decks expand subsequently narrowing or closing the concrete joint gaps. This information should be reviewed at the concrete pre-pour meeting.

Confirm Joint Opening Dimension: Prior to installing any expansion joint system always confirm that the size system supplied will accommodate both the minimum and maximum joint width. Refer to MM Systems product drawings and the project specific contract drawings. Too often the concrete is poured without adjustment resulting in larger than anticipated joint openings. Not knowing the actual expected minimum and maximum joint opening could result in product failure or a costly replacement order if it is not properly sized.

INSTALLATION

1) Ensure that the joint opening width has been adjusted based on temperature at time of concrete placement. Consult with engineer of record for adjustment table.
2) Remove and repair all unsound concrete in and around the blockout. All spalls must be repaired with approved structural patching material.
3) Install Microwaterseal Tape and 60-mil fabric reinforced rubber gutter.
4) Attach bolt-in aluminum base frame to expansion joint opening blockout.
5) Install seismic centering bar devices, rubber impact dampers, and slide plate cover.
6) Install seismic slide plate splice connectors and slip connectors at time of cover plate installation.
7) Torque hardware per SSP+ Installation Guideline.
8) Refer to SSP+ Installation Guideline for detailed step-by-step instructions.

LIMITED WARRANTY

MM Systems warrants the SSP+ Expansion Joint System to be free of defects in material and conform to technical data listed. We make no warranty as to color or appearance. Since methods of application can affect performance and onsite conditions are beyond our control, MM Systems makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MM Systems sole obligation shall be, at its option, to replace, or to refund the purchase price of the quantity of system proved to be defective. In no event shall MM Systems be liable for any special, incidental, consequential, loss of profits or punitive damages. Other warranties may be available when installed by a MM Systems Certified Contractor.

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