DESCRIPTION
The SMS Series is designed for wide expansion joint openings without conventional blockouts. The SMS can accommodate heavy loading and multi-directional seismic movement. Surface mounted aluminum base frames provide the seismic slide plate a flat sliding surface. A seismic centering device with impact dampeners and displacement springs allow the slide plate to displace and return to its natural position after a seismic occurrence. The integral impact and sound dampener also acts as a waterstop. The moisture barrier in conjunction LokCrete® Bedding Compound enhance the system’s waterproofing capability.

BASIC USE
SMS is a traffic bearing expansion joint for parking structures requiring seismic movement capability without the need for blockouts in the concrete deck.

FEATURES
- For wide joints with multi-directional seismic movement.
- AASHTO HS-20 load carrying capability.
- Heavy-duty aluminum base members with interlocking frame design insure proper alignment.
- Waterproofing - Integral fabric reinforced rubber gutter.
- No blockout design is ideal for retrofit and new construction.
- Base member incorporates tire impact deflection design.
- Complies with ADA guidelines.

SPECIAL FEATURES
- Slide Plate with impact/sound dampener and waterstop.
- Solid aluminum seismic centering device with dynamic load impact dampener. (No plastic)
- LokCrete® Bedding Compound - hard, elastic, gap filler bonds aluminum frame to concrete deck reducing water intrusion.
- Fire Barriers - MM expansion joint systems are available with appropriate 2 - 5 hour fire ratings.

STORAGE
- Store LokCrete Bedding Compound in a cool, dry location 60-80°F (15-27°C) prior to use.

SEISMIC CENTERING DEVICE
Structural bar, solid aluminum ball ends, impact dampener and adjustable single or dual tension springs.

PACKAGING
Aluminum extrusion in 10-foot lengths shipped on wooden pallets. LokCrete Bedding Compound 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 must be properly formed, finished and have sound substrate.
- Joints located in turning lanes or exposed to heavy traffic must be engineered for greater impact loads – contact MM Systems.
**MM ® Surface Mount Seismic System**

**SELECTION GUIDE**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Total Movement</th>
<th>Joint Opening &quot;A&quot;</th>
<th>Slide Plate &quot;B&quot;</th>
<th>Base Frame &quot;C&quot;</th>
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Contact MM Systems for larger sizes and project specific designs.

**LIMITED WARRANTY**

MM Systems warrants the MM Surface Mount Seismic 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 on site 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 Certified Contractor.

**INSTALLATION**

1) Remove and repair all unsound concrete in and around the joint opening. All spalls must be repaired with compatible patching material.
2) Install fabric reinforced rubber gutter into aluminum base frames.
3) Optional - apply LokCrete Bedding Compound. Mask-off top of deck parallel with outside edge of aluminum base frame prior to application.
4) Install base frames with anchors supplied.
5) Remove all masking (paper and duct tape). Hardening of the bedding compound will make the removal of these items difficult.
6) Install seismic centering devices at specified spacing.
7) Install slide plate with impact dampeners.
8) Install slide plate splice connector and slip connector plates.
9) Torque hardware per the SMS Installation Guideline.

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