

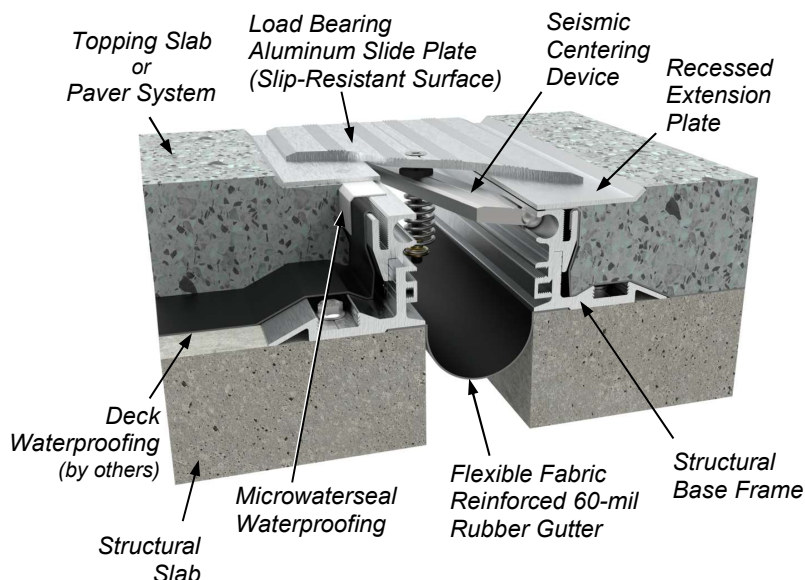


# MM<sup>®</sup> SCS Series Expansion Joint

## Split-slab Covered Seismic System (2"–12")

### DESCRIPTION

The SCS Series is designed for wide expansion joint openings with multi-directional seismic movement in split slab applications. 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 continuous reinforced rubber gutter with optional drain tubes provides enhances the system's waterproofing integrity.



### BASIC USE

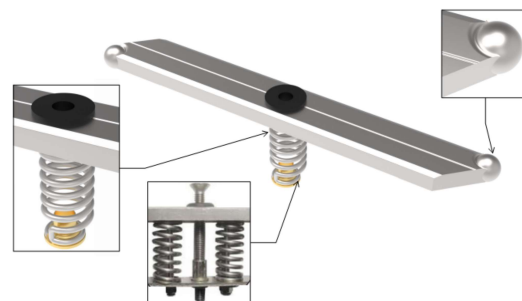
SCS is a traffic bearing expansion joint for parking structures (plaza decks, concourse areas, pedestrian bridges, etc.) and other open-air structures requiring seismic movement capability. Contact MM for heavy-duty, no-bump, stainless steel and other custom designs.

### FEATURES

- For wide joints with multi-directional seismic movement.
- Heavy-duty aluminum base members with interlocking frame design insures proper alignment.
- Leg height adjusts to accommodate pavers, topping slabs, and other surfaces.
- Recessed extension plates allow for a smooth slab-to-slab transition.
- Fabric reinforced rubber gutter provides added moisture protection.
- Ideal for high traffic pedestrian areas.
- Complies with ADA guidelines.

### SPECIAL FEATURES

- Solid aluminum seismic centering device with dynamic load impact damper. (Not plastic)
- Third Party Licensed PE Load Rating Report – available for independent load capacity analysis (fees may apply).
- Fire Barriers - MM expansion joint systems are available with 2 - 4 hour fire protection ratings.



### 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 & STORAGE

Aluminum extrusion in 5 or 10-foot lengths shipped on wooden pallets. Accessories packaged in cardboard cartons. Store SCS components in a dry location.

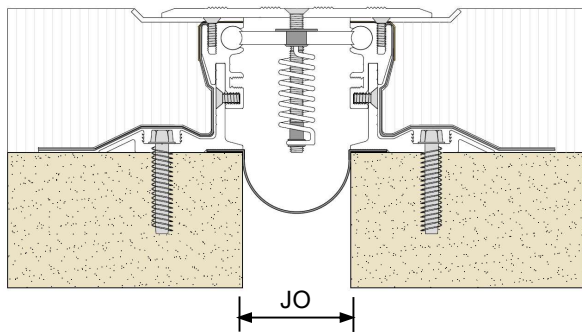
### PRECAUTIONS

Use safety goggles and protective gloves. Read and follow labels and Material Safety Data Sheet before use.

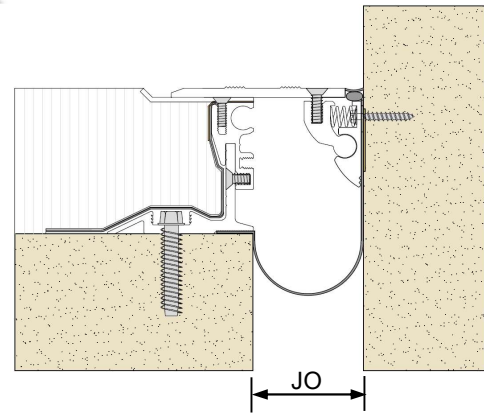
### LIMITATIONS

- Concrete blockouts must be properly formed, finished and have sound substrate.
- Joints located or exposed to heavy equipment or vehicles must be engineered for greater impact loads – contact MM Systems.

# MM<sup>®</sup> SCS Series Expansion Joint



**SCS Series** (Slab-to-Slab)



**SCS-C Series** (Slab-to-Wall)

Standard Seismic 2-to-12-inch nominal with  $\pm 50\%$  Expansion/Contraction/Shear  
For Custom Seismic (wider than 12") and up to  $\pm 100\%$  Expansion/Contraction/Shear contact MM Systems

**JO** – Joint Openings shown on contract drawings are nominal dimensions with a concrete deck temperature (not ambient air temperature) of 65 degrees Fahrenheit. Joint opening dimensions may vary as the deck temperature changes during construction. As the deck temperature decreases, concrete decks shrink causing wider concrete joint openings. Likewise, as concrete floor temperatures increase, decks expand subsequently narrowing or closing the concrete joint openings. Recommend a concrete pre-pour meeting to properly size the expansion joint gap.

**Confirm Joint Opening Dimension:** Prior to installing any expansion joint system, confirm that the supplied system size 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 structural aluminum base frame to expansion joint blockout (recessed pocket).
- 5) Install seismic centering bar devices and slide plate cover.
- 6) Install seismic slide plate splice connectors and slip connectors at time of cover plate installation.
- 7) Torque hardware per SCS Installation Guideline and follow detailed step-by-step instructions .

## LIMITED WARRANTY

MM Systems warrants the SCS 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.

*MM Systems reserves the right to amend or withdraw information contained herein, without notice, and will not be liable for any inaccuracy or ambiguity of said information.  
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**Spec Data**