



# MM<sup>®</sup> SHD Expansion Joint

## Seismic Heavy-duty Dual Self-expanding Seal System

### DESCRIPTION

The SHD Series is designed for wide seismic expansion joint openings while accommodating both vehicular and pedestrian traffic. Water tightness is achieved through self-expanding acrylic infused foam seals with a factory extruded monolithic traffic grade silicone surface seal. The SHD incorporates dual foam seals factory adjoined to an integral structural center spine. A serrated aluminum slide plate cover is attached to the SHD assembly after it is epoxy bonded to the concrete deck. Recommended recessed designs allow the slide plate cover to remain flush with finished deck surface.

### BASIC USE

SHD is a traffic bearing weather tight expansion joint for stadiums, parking structures and other open-air structures requiring multi-directional seismic movement capability.

### FEATURES

- Watertight self-expanding acrylic infused foam combined with integral protective silicone surface seal.
- Dual seismic seals provide self-centering feature for center spine and slide plate cover.
- Non-invasive (no anchors) attachment.
- Structural aluminum center spine with nut race facilitates simple slide plate cover attachment.
- Complies with ADA guidelines.
- Conforms to irregular openings virtually mitigating the risk of costly water damage.

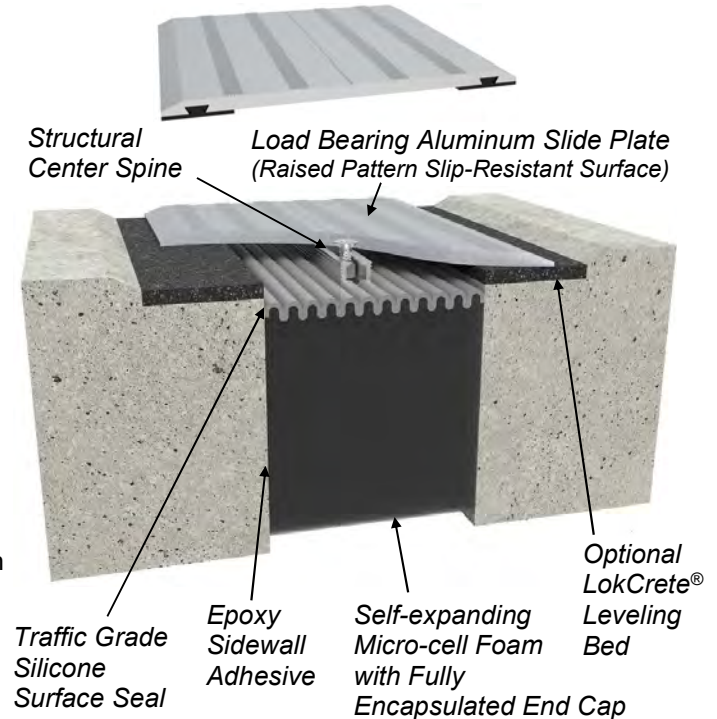
### SPECIAL FEATURES

- Slide plate covers are available in stainless steel, aluminum with impact/sound dampers or with dual hinged nosing pads.
- Quiet-ride aluminum slide plate covers with integral rubber sound dampers available.
- Fire Barriers - MM expansion joint systems available with 2 to 4 hr. fire protection ratings.

### STORAGE

All materials should be stored off the ground in a cool, dry location 70-80°F (20-27°C) for a minimum of 24 hours prior to installation regardless of the temperature at installation site.

### Quiet-ride Cover with Rubber Impact Damper Design Option



### PACKAGING

SHD pre-compressed assemblies are 6.5-foot lengths and shipped on wooden pallets.

Slide plate covers are 10-foot lengths and shipped on wooden pallets.

LokCrete is supplied in pre-measured Part A, B, C components in plastic buckets.

Accessories packaged in cardboard cartons.

Epoxy Adhesive is supplied in Part A & Part B easy-mix containers. Pre-measured packaging insures consistent field performance.

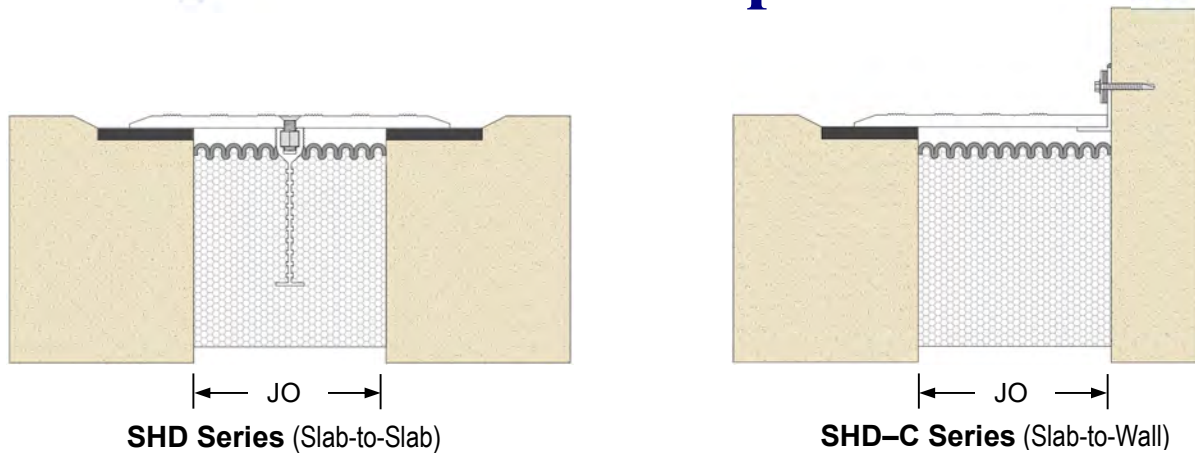
### PRECAUTIONS

LokCrete & Epoxy - Use splash goggles, chemical resistant gloves and avoid 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 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 forklift traffic must be engineered for greater impact loads – contact MM Systems.

# MM SHD Series Expansion Joint



**SIZES: STANDARD 4-TO-12-INCH NOMINAL / CUSTOM SEISMIC 13-INCH NOMINAL AND LARGER AVAILABLE.**

**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 joints. Likewise, as the deck temperature increases, concrete decks expand subsequently narrowing or closing the concrete joints. 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) Remove and repair all unsound concrete in and around the blockout and joint opening.
- 2) The blockout must be clean and dry prior to installation if optional LokCrete when used as a leveling pad.
- 3) Clean and prepare sidewalls of the joint opening interface per the installation instructions.
- 4) Attach leveling devices to factory prepackaged assembly. Do not remove packaging at this point.
- 5) Apply a thin layer of two-component epoxy adhesive to the sidewalls of the structural joint opening.
- 6) Release factory precompressed assembly to expand and fill the joint opening.
- 7) Apply butt splice sealant between 6.5 foot assembly segments.
- 8) Install Slide Plate Cover and hardware per the SHD Installation Guideline.
- 9) Refer to SHD Installation Guideline for detailed step-by-step instructions.

## LIMITED WARRANTY

MM Systems warrants the SHD 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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