



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

## Seismic No-Bump Infill Cover System

### DESCRIPTION

The SNI Series incorporates a hidden seismic infill cover for wide interior expansion joint openings. SNI provides a smooth and virtually impact-free “no-bump” transition between opposing floor surfaces and is engineered to accommodate multi-directional seismic movement in climate-controlled environments. The dual narrow movement gaps facilitate thermal movement while the wide seismic joint opening allows the slide plate to displace during a seismic occurrence. Optional Tri-Block Moisture Barrier and PyroFlex Fire Barriers provide a totally integrated waterproofing and life safety system.

### BASIC USE

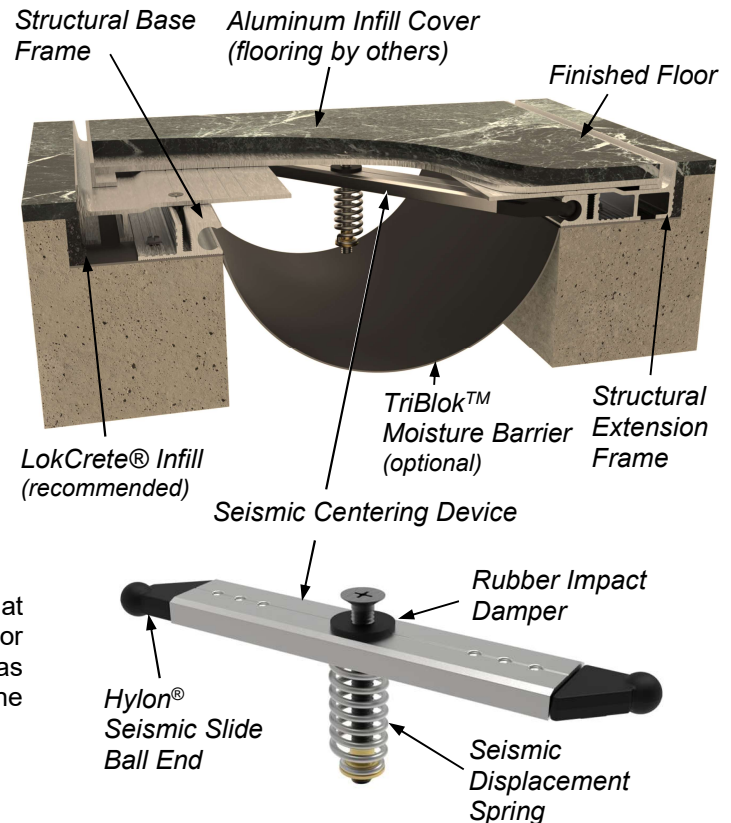
The SNI Series is a hidden infill pan design that integrates seamlessly with the surrounding floor finishes in climate-controlled structures such as airports, hospitals, convention centers, and the like where aesthetics are important.

### FEATURES

- The “no-bump” slide plate “infill cover” provides flush floor-to-floor transitions.
- Multi-directional seismic movement capability  $\pm 50\%$  in expansion, contraction, and shear.
- Pedestrian friendly and ADA compliant for joints openings ranging from 9 to 18 inches. Custom designs and sizes are available.
- Heavy-duty aluminum base frame with interlocking aluminum extension plate design assures proper alignment.
- Optional TriBlok™ reinforced moisture barrier available in all sizes.
- Refer to TNI Series Expansion Joint System for thermal infill designs ranging from 2 to 8 inches in size.

### SPECIAL FEATURES

- Third Party Licensed PE Load Rating Analysis – available for independent load capacity reports (fees may apply).
- Optional LokCrete® Blockout Infill - hard, elastic, abrasion resistant embed material that flexes with concentrated loads.
- Fire Barriers - MM expansion joint systems are available with 2 to 4 hour fire protection ratings.



### SEISMIC CENTERING DEVICE

The aluminum structural bar, seismic displacement spring, and nylon ball ends help center the slide plate cover equidistantly over the expansion joint opening while allowing the cover to elevate safely out of the joint cavity during seismic events.

### SLIDE PLATE INFILL COVER

The SNI structural infill cover accommodates flooring materials such as terrazzo, ceramic tile, hardwood, and other materials to create a hidden sightline feature.

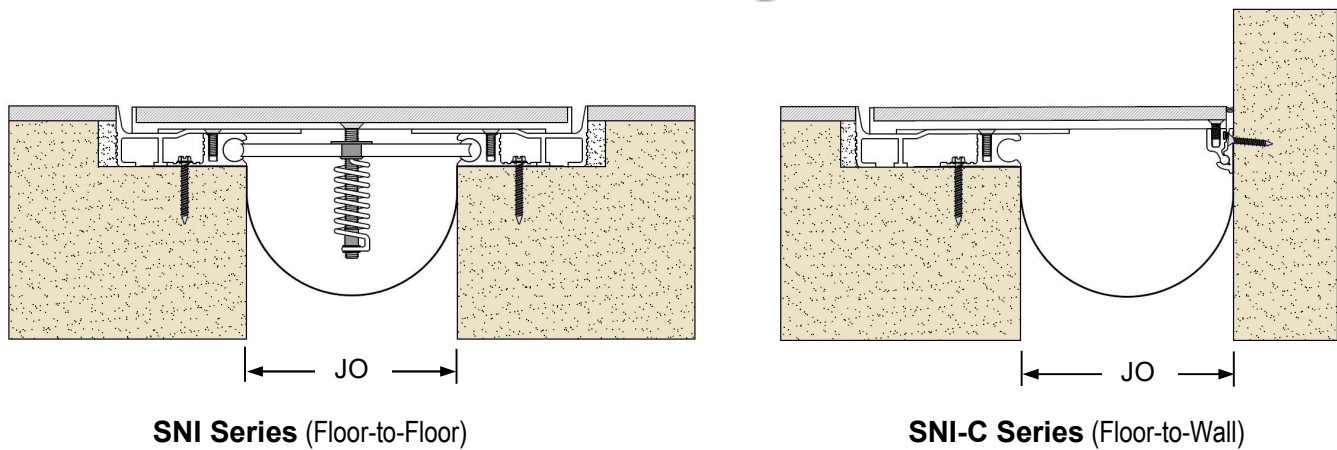
### PACKAGING & STORAGE

Aluminum extrusion in 10-foot lengths shipped on wooden pallets. LokCrete is supplied in Part A, B and C pre-measured components. Accessories packaged in cardboard cartons. Store in a cool, dry location 60-80°F (15-27°C).

### 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 Safety Data Sheet before use.

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Seismic 9-to-18 inch nominal openings ■ Seismic Expansion/Contraction/Shear  $\pm 50\%$  to  $\pm 100\%$  ■ Thermal  $\pm 0.50$  inch  
(Contact MM Systems for custom sizes, movement, and designs)

**JO** – Joint Openings shown on contract drawings are normally calculated as a nominal dimension when the concrete floor temperature (not ambient air temperature) is at 65 degrees Fahrenheit. Joint opening dimensions may vary as the floor temperature changes during construction. Typically, as the floor temperature decreases, concrete floors shrink subsequently enlarging or widening the concrete joint openings. Likewise, as the floor temperature increases, concrete floors expand subsequently narrowing or closing the concrete joint openings. This information should be reviewed at the concrete pre-pour meeting. Once the building is climatized the amount of joint opening deviation will be minimized.

**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 the structural joint opening width has been adjusted. Consult with engineer of record for adjustment table.
- 2) Remove and repair all unsound concrete. Repair with approved structural patching material.
- 3) Finished floor surfaces must be flat and have identical elevations on adjacent sides.
- 4) If optional LokCrete elastomeric blockout infill is used, prepare concrete by blasting substrate immediately prior.
- 5) Use SNI base frame as template to mark and drill anchor holes. Install and secure with concrete anchors.
- 6) Stagger base frame and recessed extension plates according to instructions.
- 7) Insert Hylon centering bars at specified spacing into each base frame as each frame is installed.
- 8) Level SNI assembly to be flush with finished floor surface elevation. Install slide plate covers.
- 9) Mask-off top of expansion joint assembly and backfill edge void with LokCrete (recommended) per instructions.
- 10) Refer to the SNI Installation Guideline for detailed step-by-step instructions.

## LIMITED WARRANTY

MM Systems warrants the SNI 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 an MM Systems Certified Contractor.

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Current Issue 10-10-24*

