



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

## Thermal No-Bump Flush Cover System

### DESCRIPTION

The TNF Series is a building interior floor expansion joint that provides a smooth and virtually impact-free “no-bump” transition between opposing floor surfaces in climate-controlled environments. SNF is engineered to accommodate multi-directional seismic movement and heavy rolling loads over 2-to-8-inch nominal joint openings. The small movement gap facilitates thermal movement, and the wider seismic gap allows the slide plate to displace during a seismic occurrence. Optional TriBlok™ Moisture Barrier and PyroFlex Fire Barriers provide a total integrated waterproofing and life safety system.

### BASIC USE

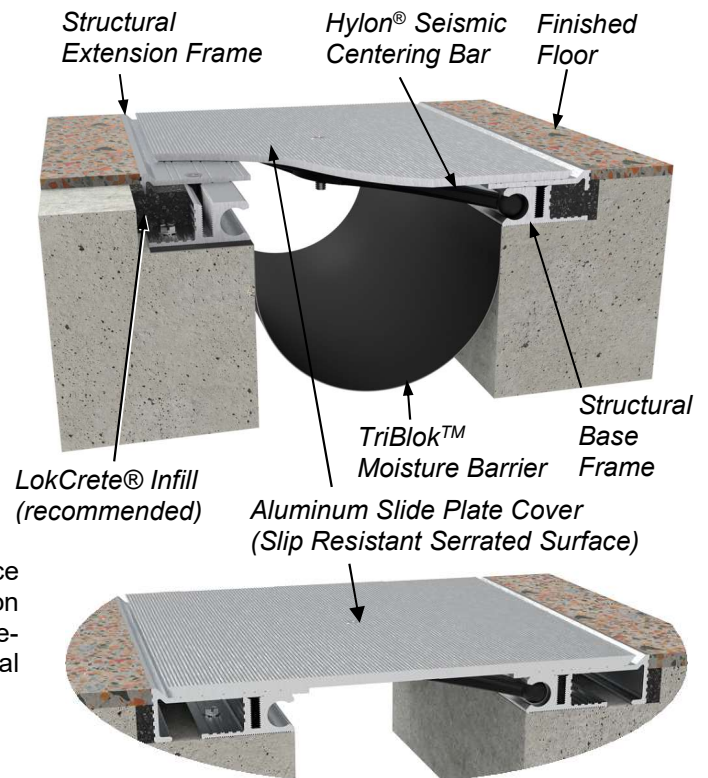
The TNF Series accommodates high load service conditions in airports, hospitals, convention centers, distribution facilities, and other climate-controlled structures requiring multi-directional movement capability.

### FEATURES

- The “no-bump” slide plate provides flush floor-to-floor transition in joints ranging from 1 to 8 inches.
- Multi-directional seismic movement capability  $\pm 50\%$  in expansion, contraction, and shear.
- Refer to SNF Series Expansion Joint System for wider seismic joints ranging from 9 to 18 inches. Custom sizes are available.
- Structural aluminum frame interlocking design feature ensures proper alignment.
- Optional TriBlok™ reinforced moisture barrier available in all sizes.
- Complies with ADA guidelines.

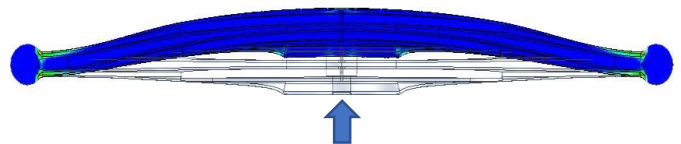
### SPECIAL FEATURES

- Third Party Licensed PE Load Rating Analysis – available for independent load capacity analysis (fees may apply).
- Impact absorbing LokCrete® Elastomeric Infill is available to provide superior support for flooring materials.
- Fire Barriers - MM expansion joint systems are available with 2 to 3 hour fire protection ratings.
- Insulated Vapor Barrier (IVB) - available for projects requiring environmental protection - available thermal values of R19, R25, and R30.



### SLIP-RESISTANT COVER PLATE

The slip-resistant serrated aluminum cover complies with safe walking surfaces as set forth by the Americans with Disabilities Guidelines for Buildings and Facilities.



### SEISMIC CENTERING BAR

The solid Hylon® Seismic Centering Bar is heat and flame resistant that centers the slide plate cover equidistantly over the expansion joint opening while providing dynamic seismic flexure allowing cover plates to rise safely out of the joint cavity during seismic events.

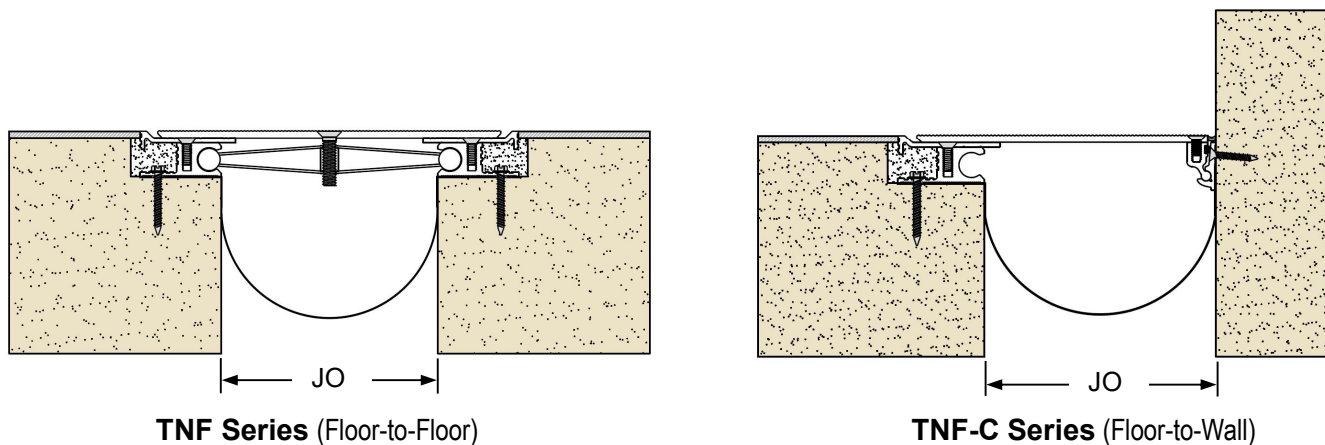
### PACKAGING & STORAGE

Aluminum extrusions shipped in 10-foot lengths on wooden pallets. 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.

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



Sizes 1-to-8 inch nominal openings ■ Expansion/Contraction/Shear  $\pm 50\%$  to  $\pm 100\%$  ■ Custom end-wall terminations available  
(Contact MM Systems for custom sizes 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 TNF 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 TNF 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 TNF Installation Guideline for detailed step-by-step instructions.

## LIMITED WARRANTY

MM Systems warrants the TNF 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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