



MM[®] TTC Series Expansion Joint

Thermal Top-Mount Cover System

DESCRIPTION

The TTC Series is designed for interior floor expansion joint openings with a low profile cover plate that resides on the top of floor covering material. The high strength Hylon centering bar facilitates multi-directional movement and flexes with floor loads. The narrow sightline aluminum cover has a slip-resistant serrated profile for nominal joint openings ranging from 1 to 9 inches. Available with optional Tri-Block Moisture Barrier and PyroFlex[®] Fire Barrier which provides a total integrated waterproofing and life safety system.

BASIC USE

TTC is a pedestrian friendly load bearing expansion joint for building interiors well suited for carpeted floors as well as many other flooring substrates.

FEATURES

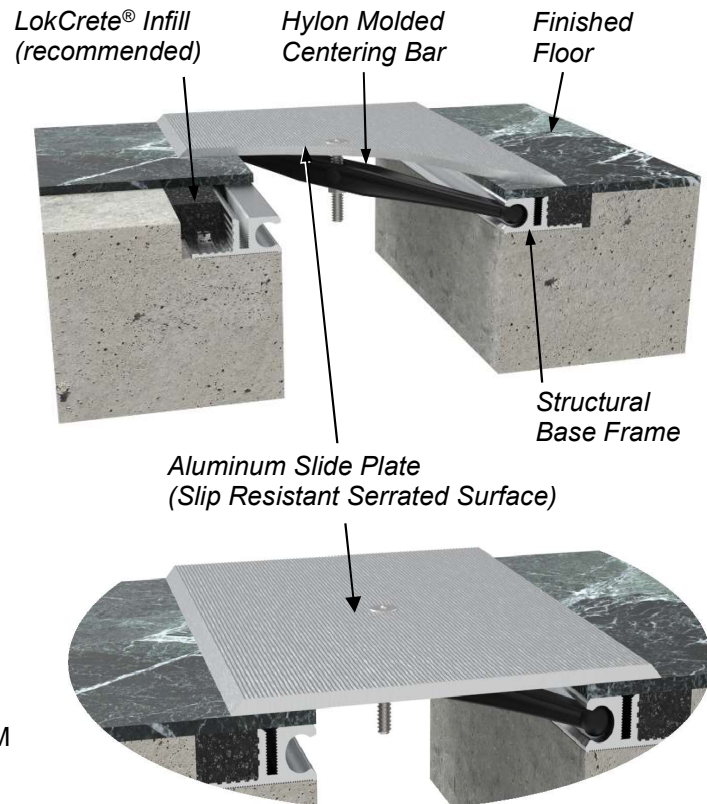
- Complies with ADA guidelines. Contact MM for best in class recessed versions.
- For joints ranging from 1 to 8 inches with multi-directional movement capability.
- Multi-directional seismic movement capability $\pm 50\%$ in expansion, contraction, and shear.
- For wider joints ranging from 9 to 18 inches refer to STC Series Expansion Joint System.
- Narrow sight line durable cover design.
- Optional integral reinforced Tri-Block Moisture Barrier available in all sizes.

SPECIAL FEATURES

- Third Party Licensed PE Load Rating Analysis – available for independent load capacity analysis (fees may apply).
- Impact absorbing LokCrete[®] Elastomeric Infill provides 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.

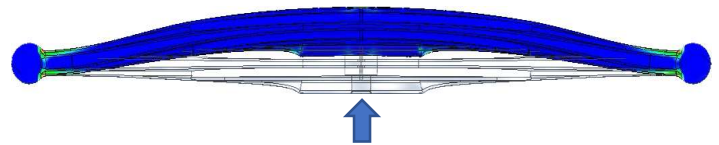
PACKAGING & STORAGE

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).



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[®] Molded Seismic Centering Bar is a heat-resistant, and flame rated glass filled copolymer with outstanding wear resistance, low frictional, and superior impact properties. The bar centers the slide plate cover equidistantly over the expansion joint opening and flexes with floor loads.

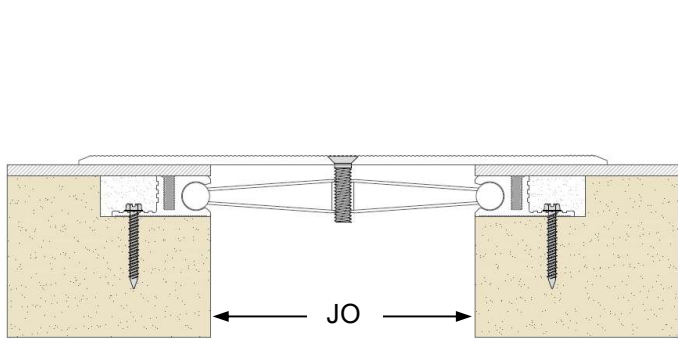
PRECAUTIONS

Read and follow labels and Safety Data Sheets.

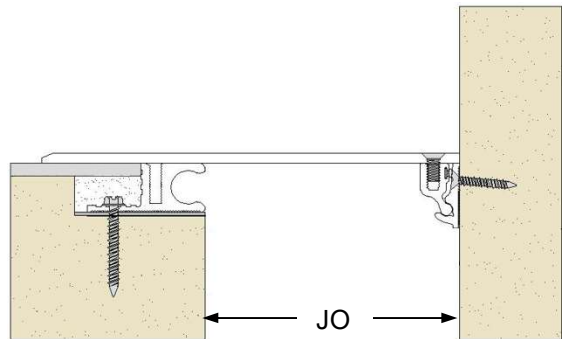
LIMITATIONS

- Concrete blockouts must be properly formed, finished, and provide sound substrate.
- Finished floor surfaces must be flat and have identical elevations on adjacent sides.

MM[®] TTC Series Expansion Joint



TTC Series (Floor-to-Floor)



TTC-C Series (Floor-to-Wall)

Seismic 9-to-18 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 TTC base frame as template to mark and drill anchor holes. Install and secure with concrete anchors.
- 6) Insert aluminum centering devices at specified spacing into each base frame as each frame is installed.
- 7) Level assembly to be flush with finished floor surface elevation.
- 8) Mask-off top of expansion joint assembly and backfill edge void with LokCrete (recommended) per instructions.
- 9) Install slide plate covers.
- 10) Refer to the TTC Installation Guideline for detailed step-by-step instructions.

LIMITED WARRANTY

MM Systems warrants the TTC 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.

*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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