



MM[®] SIH Series Expansion Joint

Seismic Interlocking Hinge Low-profile Design

DESCRIPTION

The SIH Series seismic expansion joint is a low profile design for heavy-duty service environments providing a smooth no-bump transition between opposing floor surfaces. The low-profile interlocking center slide plates are hinged to allow the system to remain flush with finished floor surface while accommodating both thermal and multi-directional seismic movement. Three rubber anti-vibration dampers eliminate metal-to-metal noise and help prevent the infiltration of liquids and bacterial growth. An optional Tri-Blok gutter and LokCrete[®] elastomeric concrete infill enhances the system's waterproofing capability.

BASIC USE

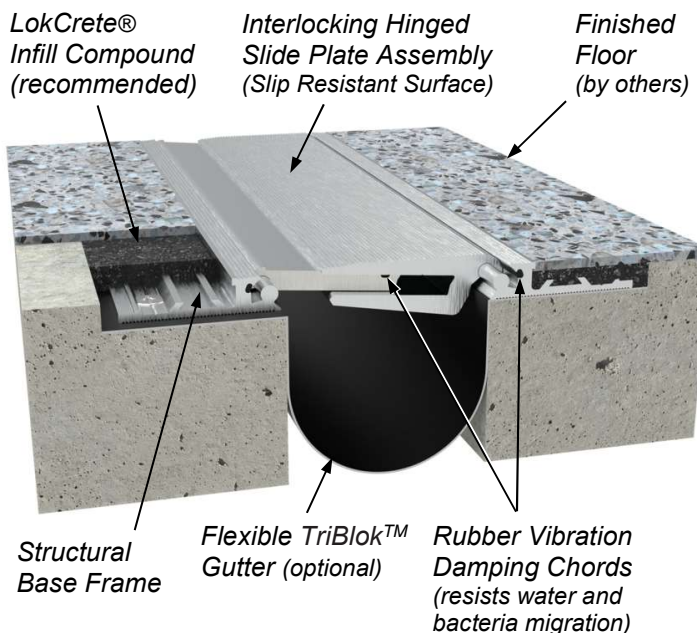
SIH is a traffic bearing expansion joint for heavy-duty rolling loads such as hospital gurneys, luggage carts, money carts, and pallet jacks, in climate controlled environments such as hospitals, airports, casinos, convention centers, stadiums and other structures requiring seismic movement capability.

FEATURES

- Interlocking slide plate assembly provides full range of multi-directional seismic motion.
- Provides no-bump flush floor-to-floor transition.
- Rubber vibration damping chords suppress water infiltration and bacteria growth.
- Pedestrian friendly and ADA compliant.
- Accommodates fork trucks with pneumatic tires.
- Heavy-duty aluminum base frame with interlocking design insures proper alignment.
- Durable TriBlok[™] gutter provides added moisture protection (optional).

RELATED PRODUCTS & SERVICES

- Load Rating Analysis – contact MM Systems for licensed PE load capacity reports related to pneumatic, solid rubber and plastic tires.
- LokCrete[®] - hard, elastic, abrasion resistant embed material that flexes with deck loads.
- Fire Barriers - MM expansion joint systems available with 2 to 4 hour fire protection ratings.



SEISMIC SOLUTION

The interlocking slip-resistant covers rotate and slide into each other to accommodate vertical deflection, lateral shear and accelerated 6-plane seismic movement. The SIH load bearing arms provides a flush no-bump ADA compliant transition between opposing floors while accepting heavy-duty service loads.

PACKAGING

Aluminum extrusion in 10-foot lengths shipped on wooden pallets. LokCrete is supplied in pre-measured units. Accessories palletized and/or packaged in cardboard cartons.

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.

LIMITATIONS

- Concrete blockouts must be properly formed and finished to exact elevations with sound substrate.
- Engineered for climate controlled interior building applications.
- Adjacent construction must have fire-resistive ratings equal to or greater than the rating of the fire barrier systems when specified.

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MOVEMENT CAPABILITIES

Capable of thermal expansion, contraction, lateral shear, vertical displacement, and multi-directional seismic movement.

Structural Joint Sizes: 1" to 4" Nominal (51mm–102mm) contact MM Systems for project specific custom sizes and designs.

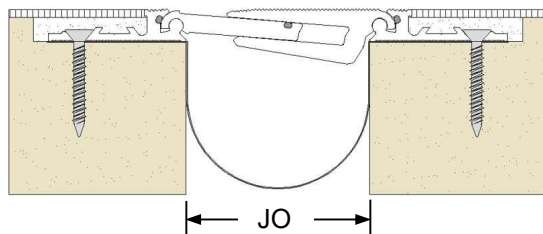
Expansion / Contraction: $\pm 50\%$ and custom movement designs available.

Lateral Shear: $\pm 50\%$ and custom shear designs available to accommodate end-wall terminations.

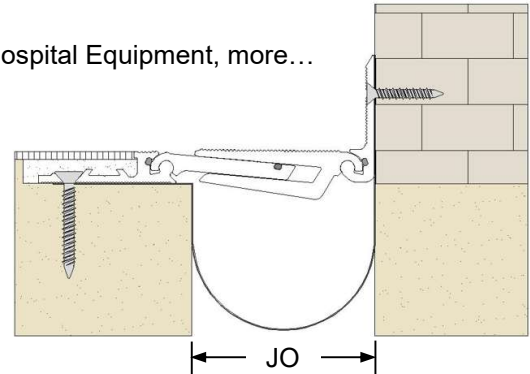
Vertical Deflection: Contact MM Systems for designs that accommodate project design requirements.

Performance: ASTM E1399

Load Capacity: Pedestrian, Floor Cleaning Machines, Sensitive Hospital Equipment, more...



SIH Series (Floor-to-Floor)



SIH-C Series (Floor-to-Wall)

Confirm Joint Opening (JO) 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.

LIMITED WARRANTY

MM Systems warrants the SIH Series – Seismic Interlocking Hinge 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 Certified Contractor.

INSTALLATION

- 1) Ensure the joint opening width has been adjusted based on temperature at time of concrete placement. Consult with engineer of record for joint gap adjustment table.
- 2) Remove and repair all unsound concrete in and around the breakout. Repair all spalls with approved structural patching material.
- 3) Use SIH assembly as template to locate, mark, and drill anchor holes.
- 4) Place SIH assembly into breakout cavity. Stagger components according to instructions. Level to match finished floor surface.
- 5) Secure base member with anchor bolts supplied.
- 6) Mask-off top of floor parallel with edge of breakout and top of aluminum base member.
- 7) Backfill breakout with infill material (LokCrete recommended) up to the height of the base member or to accommodate finished flooring.
- 8) Refer to SIH Install Guideline for detailed step-by-step instructions.

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