



MM[®] DIH Series Expansion Joint

Dual Interlocking Hinge Extreme Duty Design

DESCRIPTION

A seismic expansion joint designed for extreme-duty service conditions with the ability to provide a smooth and virtually impact-free transition between opposing floor surfaces. Dual interlocking slide plates are hinged to allow the system to remain flush with finished floor surface while accommodating both thermal and multi-directional seismic movement. Six rubber anti-vibration dampers eliminate metal-to-metal noise and help prevent the infiltration of liquids. An optional TriBlok[™] moisture barrier and LokCrete[®] elastomeric concrete infill enhances the system's waterproofing capability.

BASIC USE

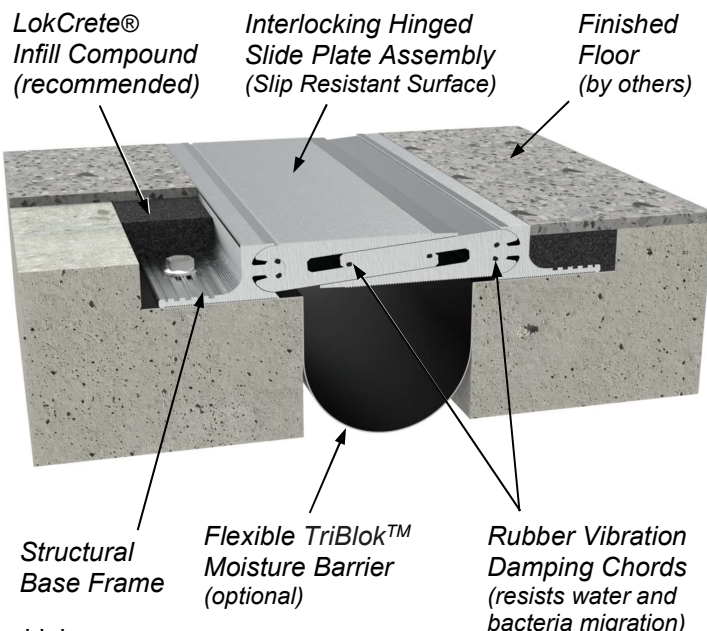
DIH is a traffic bearing expansion joint for high concentrated extreme-duty rolling loads such as fork trucks, money carts, luggage carts, pallet jacks, and gurneys in climate controlled environments such as hospitals, airports, casinos, convention centers, stadiums and other structures requiring seismic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

FEATURES

- Interlocking dual slide plate assembly provides the ultimate flush floor-to-floor transition.
- Rubber vibration damping chords suppress water infiltration and bacteria growth.
- Six-way multi-directional seismic movement capability.
- Pedestrian friendly and ADA compliant.
- Provides flush no-bump transition for sensitive equipment and hospital gurneys.
- Accommodates fork trucks with solid or pneumatic tires.
- Extreme-duty aluminum base frame with interlocking design ensures 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 wheels.
- LokCrete[®] - hard, elastic, impact resistant embed filler that flexes with deck loads.
- Fire Barriers - MM expansion joint systems available with 2 to 4 hour fire protection ratings.



SEISMIC SOLUTION

The pelican-style slide slip-resistant covers rotate and slide into each other to accommodate vertical deflection, lateral shear and accelerated 6-plane seismic movement. The DIH boasts a flush no-bump floor-to-floor transition while providing four interlocking load bearing arms to facilitate extreme 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 6" Nominal (51mm–152mm) contact MM Systems for project specific custom sizes and designs.

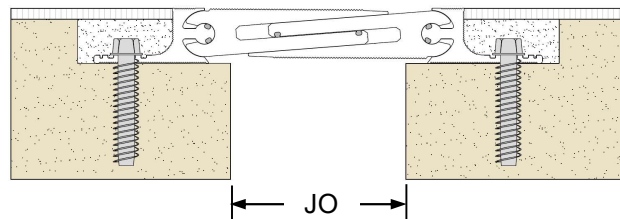
Expansion / Contraction: $\pm 50\%$ and custom movement designs available.

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

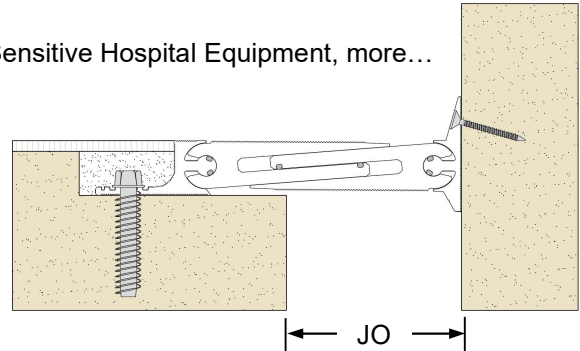
Vertical Deflection: Contact MM Systems for designs that accommodate project design requirements.

Performance: ASTM E1399

Load Capacity: Pedestrians, Forklifts, Hard Wheeled Carts, Sensitive Hospital Equipment, more...



DIH Series (Floor-to-Floor)



DIH-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 adjusting the JO resulting in larger than anticipated joint openings. Not knowing the actual expected minimum and maximum joint opening could result in product failure. This information should be reviewed at the concrete pre-pour meeting.

LIMITED WARRANTY

MM Systems warrants the DIH Series – Dual Interlocking Hinge Seismic 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 DIH assembly as template to locate, mark, and drill anchor holes.
- 4) Place DIH 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 DIH 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.

Current Issue 12-09-24



50 MM Way, Pendergrass, GA 30567 • 706.824.7500 • www.mm.systems

Spec Data