



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

## Hidden Sight Line Interior Floor System

### DESCRIPTION

The HSL Series is a nearly invisible floor expansion joint system that accommodates up to 6-inches of multi-directional building movement. The engineered shear pocket coupled with the rotation arm allows flooring material to span over wider joint openings while adapting to vertical load deflection. The hidden sight line features offer architects and interior designers unique design possibilities in a wide range of building applications such as hospitality, retail, commercial, and health care facilities to name a few.

### BASIC USE

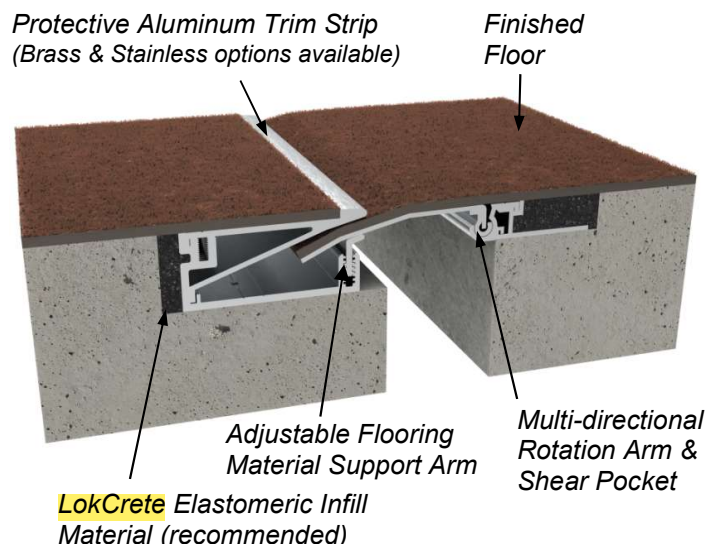
The unique HSL support system accepts flexible floor coverings such as carpet and sheet **vinyl** which can be adjusted on site to receive various thickness flooring.

### FEATURES

- Complies with ADA guidelines and safe pedestrian walking surfaces.
- For joints ranging from 1 to 6 inches with multi-directional movement capability.
- Accommodates 3/16", 1/4", and 3/8" thickness flexible floor materials.
- No exposed fasteners.
- Structural aluminum base members with interlocking frame are designed to ensure proper alignment.
- Optional Tri-Block integral reinforced 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 elastomeric **LokCrete** Infill provides superior support for flooring materials.
- Optional Thermal Insulation - available thermal resistance R-values of R-19, R-25 & R-30 when installed with MM Insulated Vapor Barriers (IVB Series).



### TECHNICAL MATERIAL DATA

Custom aluminum extrusions supplied in 10-foot lengths conforming to one or more of the following: 6063-T5,T6; 6061 T5,T6, ASTM B221.

### LIFE SAFETY COMPLIANCE

Complies with the following codes when installed with optional 2-3 hour rated **Pyro-Flex** Fire Barriers.

- International Building Code
- UL 2079
- ASTM E1966
- ASTM E1399

### STORAGE

Store in a cool, dry location 60-80°F (15-27°C).

### PACKAGING

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

### 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.

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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" (51mm – 457mm) contact MM Systems for project specific custom sizes and designs.

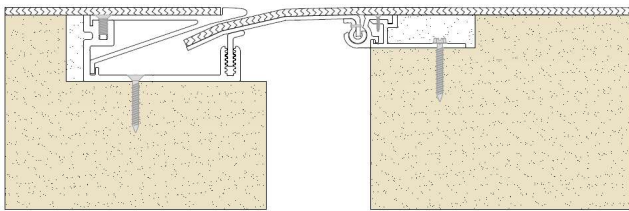
**Expansion / Contraction:** ±50% to custom ±100%

**Lateral Shear:** ±50% to ±100% plus custom shear designs to accommodate **end wall** terminations.

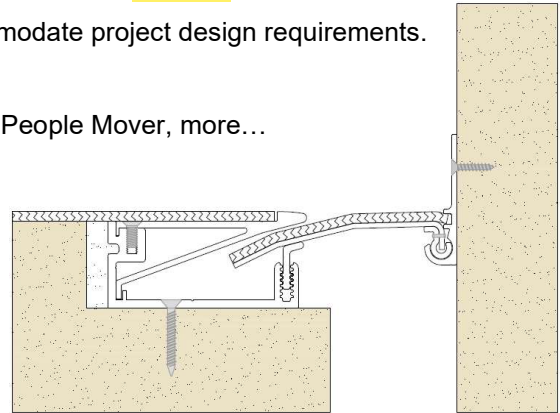
**Vertical Deflection:** **contact** MM Systems for designs that accommodate project design requirements.

**Performance:** ASTM E1399

**Load Capacity:** Pedestrian, Floor Cleaning Equipment, Golf Cart People Mover, more...



**HSL Series** (Floor-to-Floor)



**HSL-C Series** (Floor-to-Wall)

**Confirm Joint Opening Dimension:** Prior to installing any expansion joint **system always** confirm that the **size system** selected 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 HSL Series – Hidden Sight Line 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) Remove and repair all unsound concrete in and around the blockout. All spalls must be repaired with compatible patching material.
- 2) Prepare substrate by blasting. Substrate must be clean and dry prior to installation of optional **LokCrete** elastomeric impact absorbing filler.
- 3) Place, assemble, and secure base members with concrete anchors.
- 4) Level to match finished floor surface.
- 5) Mask-off and protect HSL nosing trim strip.
- 6) Backfill base frame blockout pocket with structural grout or **LokCrete** (recommended) up to the height of the base frame or to finished flooring thickness required.
- 7) Refer to HSL 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**