



MM[®] HFP Series Expansion Joint

Hinged Floor Plate System (2"–12")

DESCRIPTION

The HFP Series is pedestrian safety cover designed for expansion joint openings without conventional blockouts. The HFP can accommodate vertical offsets in opposing floors and multi-directional seismic movement. The surface mounted hinged anchor frame provides support for the adjustable safety cover that incorporates an anti-vibration dampers. An optional flexible TriBlok Moisture Barrier reduces condensation, moisture and water infiltration concerns.

BASIC USE

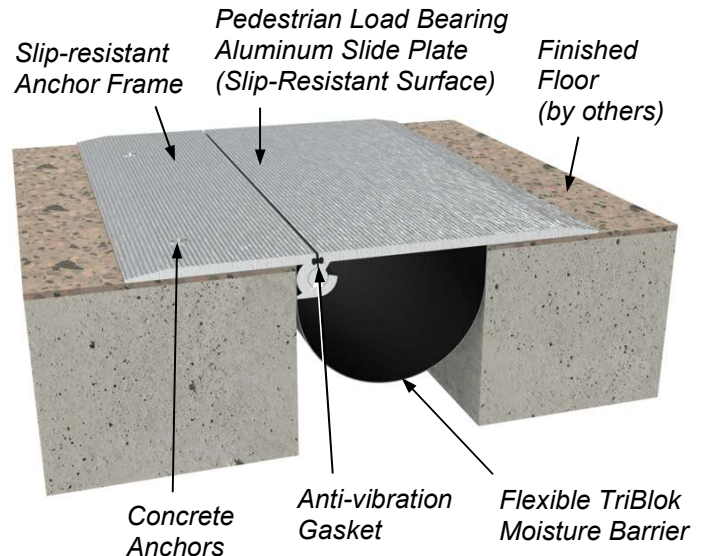
HFP is a load bearing expansion joint safety cover ideally suited for high traffic pedestrian areas on bridges, skywalks, walkways or areas requiring compensation for settlement that has or may occur in opposing floor surfaces. HFP is equally adaptable for light duty maintenance equipment and service environments.

FEATURES

- Multi-directional seismic movement capability $\pm 50\%$ in expansion, contraction, and shear.
- Accommodates vertical offsets in opposing floors or deflection caused by service load traffic.
- No-blockout design is ideal for retrofit and new construction.
- Ideal for high traffic pedestrian areas.
- Interlocking cover design ensures proper system alignment.
- Aluminum frames incorporate raised pattern slip-resistant surface profile.
- Complies with ADA guidelines.

SPECIAL FEATURES

- Hinge Cover available in stainless steel with mill or brush finish option.
- Third Party Licensed PE Load Rating Report – available for independent load capacity analysis (fees may apply).
- Contact MM Systems for increased load designs, 100% movement and for any unusual service environments.



OPTION – LokCrete[®] Bedding Compound is ideal for filling voids under the Anchor Frame to compensate for irregular floor substrates.

LIFE SAFETY COMPLIANCE

Available with optional 2-3 hour rated PYRO-FLEX[®] Fire Barriers complying with the following codes.

- International Building Code
- Uniform Building Code
- ASTM E1966 & UL-263
- ASTM E1399 Seismic Cycling

MATERIAL DATA

Aluminum structural frame extrusions supplied in 5 or 10 foot lengths conforming to one or more of the following: 6063-T5,T6; 6061 T5,T6, ASTM B221.

MOISTURE CONTROL

Available with optional TriBlok Moisture Barrier gutter system and drain tube assemblies for water ingress control.

THERMAL INSULATION

Thermal Insulation – optional thermal resistance available in R-values of R-19, R-25 & R-30 when installed with MM Insulated Vapor Barriers (IVB Series).

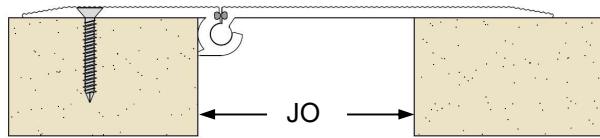
STORAGE & PACKAGING

Store in a cool, dry location 60–80°F (15–27°C). Aluminum shipped on wooden pallets. LokCrete supplied in buckets. Accessories packaged in cardboard cartons.

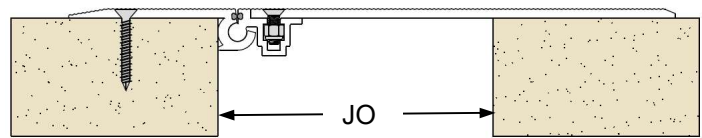
PRECAUTIONS

Use protective goggles and gloves. Read and follow labels and Safety Data Sheets before use.

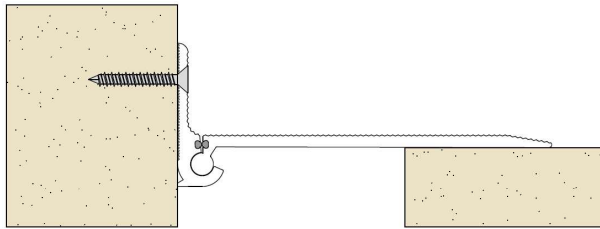
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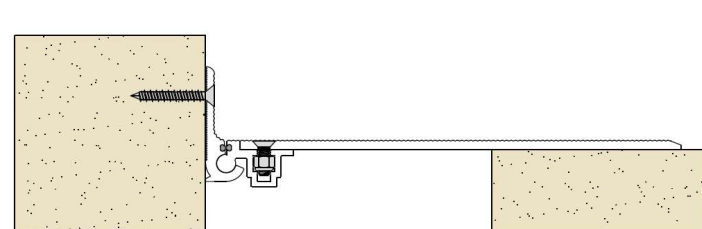
HFP (200-400) Series (Floor-to-Floor)



HFP (600-1200) Series (Floor-to-Floor)



HFP-C (200-400) Series (Floor-to-Wall)



HFP-C (600-1200) Series (Floor-to-Wall)

Standard Seismic 2-to-12-inch nominal with $\pm 50\%$ Expansion/Contraction/Shear
For Larger Seismic with up to $\pm 100\%$ Expansion/Contraction/Shear contact MM Systems

JO – Joint Openings shown on contract drawings are nominal dimensions with a concrete floor temperature (not ambient air temperature) of 65 degrees Fahrenheit. Joint opening dimensions may vary as the floor temperature changes during construction. As the floor temperature decreases, concrete floors shrink causing wider concrete joint openings. Likewise, as concrete floor temperatures increase, floors expand subsequently narrowing or closing the concrete joint openings. Recommend a concrete pre-pour meeting to properly size the expansion joint gap.

Confirm Joint Opening Dimension: Prior to installing any expansion joint system confirm that the supplied system size 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) Remove and repair all unsound concrete in and around the joint opening.
- 2) Optional - install TriBlok Moisture barrier utilizing Microsealant Waterproofing tape.
- 3) Optional - apply LokCrete Bedding Compound. Mask-off top of deck parallel with outside edge of anchor plate prior to application.
- 4) Install anchor plate with concrete anchors supplied.
- 5) Install anti-vibration sound damper gaskets in the anchor frame and hinge cover.
- 6) Install hinged safety cover slide plate.
- 7) Refer to the HFP Installation Guideline for detailed step-by-step instructions.

LIMITED WARRANTY

MM Systems warrants the HFP 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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50 MM Way, Pendergrass, GA 30567 • 706.824.7500 • www.mm.systems

Spec Data