MM® SSM Series Expansion Joint

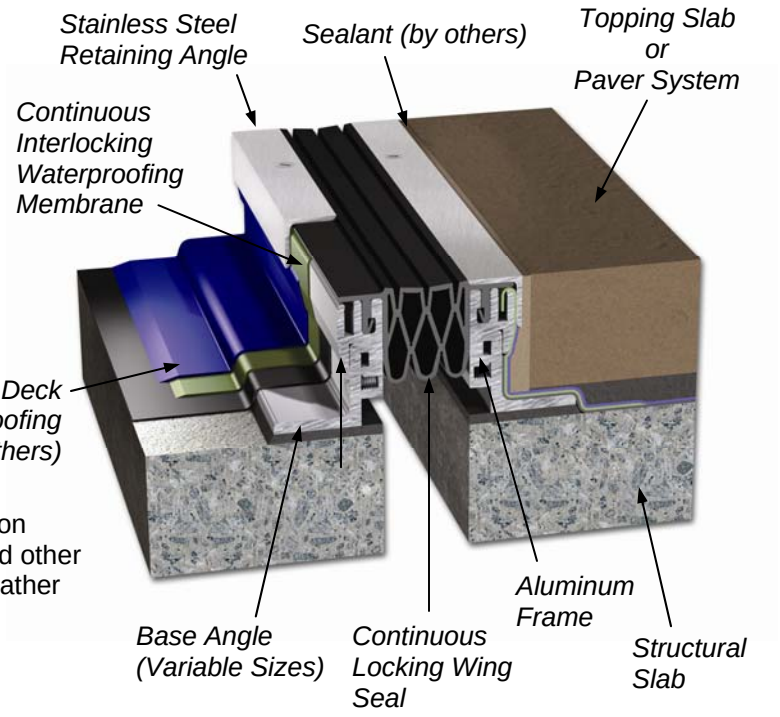
Split Slab Membrane Sealing System

SPEC DATA

MM Systems Corp. • 50 MM Way, Pendergrass, GA 30567 • 866.506.6929 • www.mmsystemscorp.com

DESCRIPTION

The Split Slab Membrane System is a high performance expansion joint sealing system for split slab applications. A heavy-duty aluminum frame with a continuous locking elastoprene seal ties directly into the deck waterproofing. A protective interlocking stainless steel retaining cap prevents damage from concrete pavers and vehicular traffic.



BASIC USE

SSM is a watertight membrane sealing system designed for traffic-bearing expansion joints in plaza decks, parking structures, and other split slab structures exposed to extreme weather conditions.

FEATURES

- Continuous locking Elastoprene® seal ties directly into primary deck waterproofing.
- Heavy-duty aluminum frame with protective interlocking stainless steel retaining cap.
- Leg height adjusts to accommodate pavers, topping slabs and other surfaces.
- Capable of thermal, seismic, vertical and lateral shear movement.
- Exceptionally durable under vehicular traffic loads and extreme weather conditions.
- ADA compliant seal profile provides pedestrian friendly walking surface.
- Seal profile splices can be heat welded or bonded with specialty adhesive.
- Factory fabricated tee's, crosses and directional changes are available.
- Available with 5-year warranty through Certified Contractor Network.

SPECIAL FEATURES

- Compatible with most waterproofing deck membranes.
- Contact MM for secondary sealing system details.
- Fire Barriers - MM® expansion joint systems are available with 2 - 4 hour fire performance ratings.

LIMITATIONS

- Concrete must be properly formed, finished and have sound substrate.

PACKAGING

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

Steel Base Angle supplied in 10-foot lengths shipped on wooden pallets.

Hardware and other accessories packaged in cardboard cartons.

SSM rubber membrane seals are supplied in longest possible lengths shipped on pallets or spools.

STORAGE

All materials should be stored in a cool, dry location 60-80°F (15-27°C) prior to use.

COLOR OPTIONS

SSM Membrane Seal is available in UV stable Black or Gray Elastoprene® rubber.

PRECAUTIONS

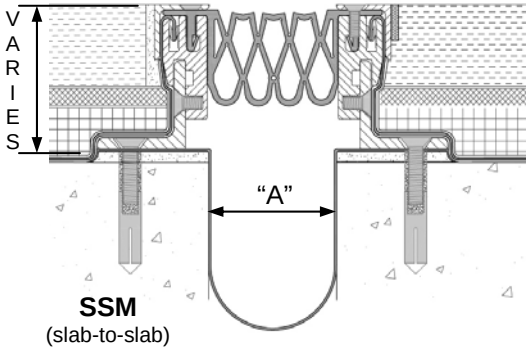
Use protective goggles and gloves. Read and follow labels and Material Safety Data Sheet before use.

MM® SSM Series Expansion Joint

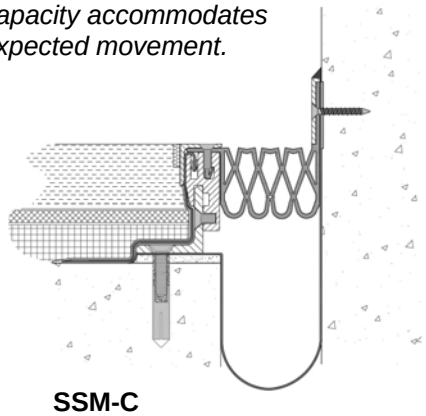
SELECTION GUIDE

Model Number	Movement Range		Joint Opening "A" Thermal Minimum		Thermal Maximum		Safety Maximum		Installation Width "A" Minimum		Maximum	
SSM-250	**2.50**	64	**.750**	19	**2.50**	64	**3.25**	83	**1.25**	32	**2.25**	57
SSM-350	**3.25**	83	**1.00**	25	**3.50**	89	**4.25**	108	**1.50**	38	**3.25**	83
SSM-450	**4.00**	102	**1.50**	38	**4.50**	114	**5.50**	140	**2.25**	57	**4.25**	108
SSM-550	**5.00**	127	**1.50**	38	**5.50**	140	**6.50**	165	**3.00**	76	**5.25**	133

*Dimensions are in **inches** (bold) and millimeters.*
See web site for SSM-C Slab-to-Wall Movement Table.
***Safety Maximum** – Safety Margin Movement capacity accommodates concrete, shrinkage, vertical deflection and unexpected movement.*



SSM
(slab-to-slab)



SSM-C
(slab-to-wall)

LIMITED WARRANTY

MM Systems warrants the Split Slab Membrane 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 on site 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.

PHYSICAL PROPERTIES

Physical Property	Test Method	Value
Elastoprene-100		
Tensile Strength	ASTM D412	1000 psi
Ultimate Elongation	ASTM D412	445%
Hardness, Shore D	ASTM D2240	65 +/-3
Tear Strength @ 73°F (23°C)	ASTM D624	140 pli / 24.5 kN/m
Tear Strength @ 212°F (100°C)	ASTM D624	58 pli / 10.2 kN/m
Compression Set @ 168 hours	ASTM D395	25% @ 23°C/ 73°F
Compression Set @ 168 hours	ASTM D395	38% @ 100°C/ 212°F
Ozone Resistance	ASTM D1149	No Cracks
UV Resistance	ASTM D695	Very Good
Brittle Point	ASTM D746	-76°F (-60°C)

NOTE: The foregoing information is published as general information only. The listed properties and performance characteristics are approximate values while actual field results may vary.

INSTALLATION

1) Remove and repair all unsound concrete in and around the joint opening. All spalls must be repaired with compatible patching material.
2) Uncoil seal and allow it to relax in the sun for as long as possible before installation.
3) Pre-attach aluminum frame to base angle.
4) Install anchors using base angle as a spacing and location template.
5) Factory directional changes – splice seals into place (insert steel splice pins to align and reinforce butt splice connections).
6) Adjust overall system height – utilize structural repair mortar leveling bed as necessary to correct elevation.
7) Insert membrane seal into aluminum frame after SSM waterproofing membrane is spliced and sealed into the waterproofing deck membrane.
8) Install retaining cap over membrane wing.
9) Seal edge along stainless steel retaining caps with polyurethane or silicone sealant.
10) Install in accordance with detailed installation guide.

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