



MM[®] SMS Series Expansion Joint

Surface Mount Seismic Slide Plate System

DESCRIPTION

The SMS Series is designed for wide expansion joint openings without conventional blockouts. The SMS can accommodate heavy loading and multi-directional seismic movement. Surface mounted aluminum base frames provide the seismic slide plate a flat sliding surface. A seismic centering device with impact dampers and displacement springs allow the slide plate to displace and return to its natural position after a seismic occurrence. The integral impact-sound damper also acts as a waterstop. The moisture barrier in conjunction LokCrete[®] Bedding Compound enhance the system's waterproofing capability.

BASIC USE

SMS is a traffic bearing expansion joint for parking structures requiring seismic movement capability without the need for blockouts in the concrete deck.

FEATURES

- For wide joints with multi-directional seismic movement.
- AASHTO HS-20 load carrying capability.
- Heavy-duty aluminum base members with interlocking frame design insure proper alignment.
- Waterproofing - Integral fabric reinforced rubber gutter.
- No blockout design is ideal for retrofit and new construction.
- Base member incorporates tire impact deflection design.
- Complies with ADA guidelines.

SPECIAL FEATURES

- Slide Plate with impact/sound damper and waterstop.
- Solid aluminum seismic centering device with dynamic load impact dampener. (No plastic)
- LokCrete[®] Bedding Compound - hard, elastic, gap filler bonds aluminum frame to concrete deck reducing water intrusion.
- Fire Barriers - MM expansion joint systems are available with 2 - 4 hour fire protection ratings.

STORAGE

- Store LokCrete Bedding Compound in a cool, dry location 60-80°F (15-27°C) prior to use.



SEISMIC CENTERING DEVICE

Structural bar, solid aluminum ball ends, impact dampener and adjustable single or dual tension springs.

PACKAGING

Aluminum extrusion in 10-foot lengths shipped on wooden pallets. LokCrete Bedding Compound is supplied in pre-measured Part A, B and C components. Accessories 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 Material Safety Data Sheet before use.

LIMITATIONS

- Concrete must be properly formed, finished and have sound substrate.
- Joints located in turning lanes or exposed to heavy traffic must be engineered for greater impact loads – contact MM Systems.

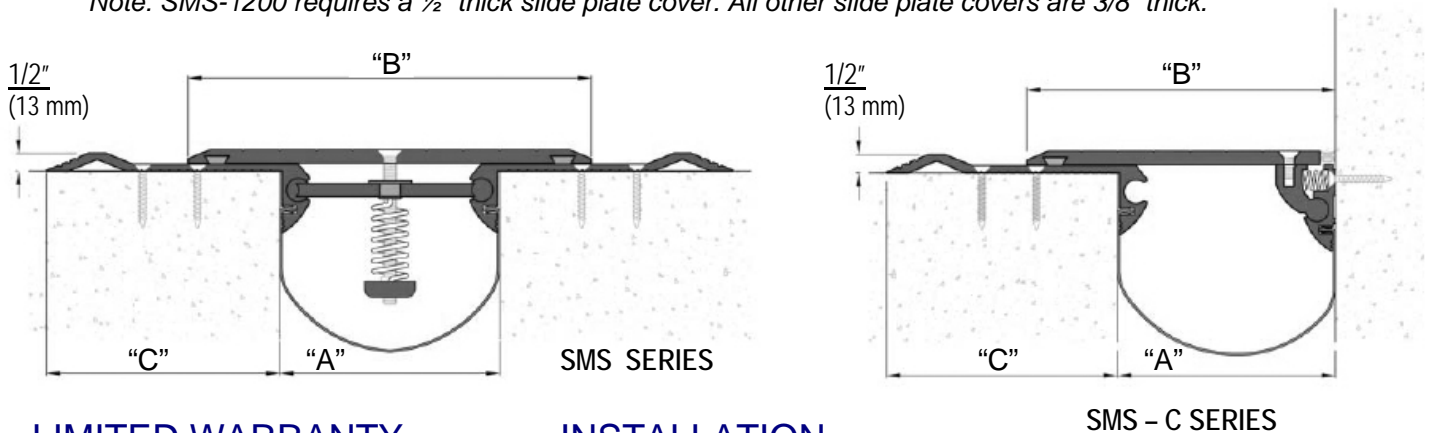
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SELECTION GUIDE

Model Number	Total Movement		Joint Opening "A"						Slide Plate "B"		Base Frame "C"	
			Seismic Min.		Nominal		Seismic Max.					
SMS-400	5.0	127	2.5	64	4	102	6.0	152	8.0	203	6.375	162
SMS-600	8.0	203	2.5	64	6	152	9.0	229	11.0	279	6.375	162
SMS-800	11.0	279	2.5	64	8	203	12.0	305	14.0	356	8.375	213
SMS-1000	14.0	356	2.5	64	10	254	15.0	381	17.0	432	8.375	213
SMS-1200	17.0	432	2.5	64	12	305	18.0	457	20.0	508	8.375	213
SMS-C-400	3.25	83	2.5	64	4	102	5.0	127	6.0	152	6.375	162
SMS-C-600	5.75	146	2.5	64	6	152	7.5	191	8.5	216	6.375	162
SMS-C-800	8.25	210	2.5	64	8	203	10.0	254	11.0	279	8.375	213
SMS-C-1000	10.75	273	2.5	64	10	254	12.5	318	13.5	343	8.375	213
SMS-C-1200	13.25	337	2.5	64	12	305	15.0	381	15.5	394	8.375	213

Dimensions are shown in **inches** (bold) and millimeters. Contact MM Systems for larger sizes.

Note: SMS-1200 requires a 1/2" thick slide plate cover. All other slide plate covers are 3/8" thick.



LIMITED WARRANTY

MM Systems warrants the MM Surface Mount Seismic 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.

INSTALLATION

- 1) Remove and repair all unsound concrete in and around the joint opening. All spalls must be repaired with compatible patching material.
- 2) Install fabric reinforced rubber gutter into aluminum base frames.
- 3) Optional - apply LokCrete Bedding Compound. Mask-off top of deck parallel with outside edge of aluminum base frame prior to application.
- 4) Install base frames with anchors supplied.
- 5) Remove all masking (paper and duct tape). Hardening of the bedding compound will make the removal of these items difficult.
- 6) Install seismic centering devices at specified spacing.
- 7) Install slide plate with impact dampers.
- 8) Install slide plate splice connector and slip connector plates.
- 9) Torque hardware per the SMS Installation Guideline.
- 10) Refer to the SMS Installation 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