



MM[®] ABC Series Expansion Joint

Armored Strip Bolt-down Cover System

DESCRIPTION

Armored Strip Bolt-down Covered Membrane System (ABC Series) is a waterproof expansion joint system with impact absorbing elastomeric concrete that bonds a heavy-duty aluminum frame with a bolt-down flange directly to the concrete deck. The protective slide plate cover is available in various metal types and thickness protecting the continuous Elastoprene[®] rubber seal. A fabric reinforced rubber gutter provides secondary water containment.

BASIC USE

ABC is a watertight membrane sealing system with a slide plate cover designed for traffic-bearing expansion joints in plaza decks, parking structures, and open-air structures exposed to extreme weather conditions.

FEATURES

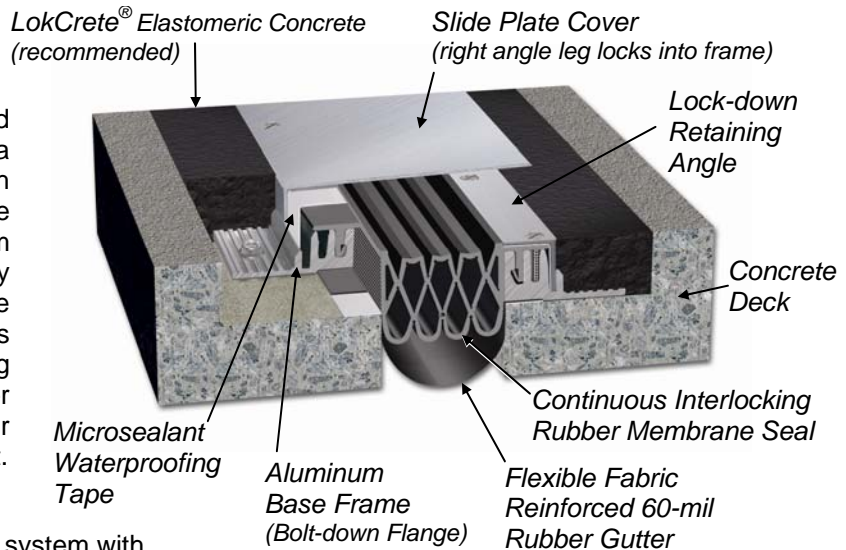
- Continuous locking Elastoprene[®] rubber seal secured with a lock-down retaining angle.
- Secondary rubber gutter for added waterproofing protection.
- Heavy-duty aluminum frame bolted in place and becomes integral with the concrete deck.
- LokCrete[®] - hard, elastic, abrasion resistant embed material that flexes with deck loads.
- Exceptionally durable under vehicular traffic loads and extreme weather conditions.
- ADA compliant slide plate cover provides pedestrian friendly walking surface.
- Seal profile splices can be heat or chemically welded. Factory transitions are available.

SPECIAL FEATURES

- Slide Plate Cover is attached to the ABC base frame not to the concrete deck.
- Fire Barriers – MM Expansion Joint Systems are available with 2 to 4 hour fire protection ratings.

LIMITATIONS

- Concrete blockouts must be properly formed, finished and have sound substrate.
- Surfaces must be dry, free of any laitance, curing agents or foreign matter.
- Install temperature must be 40°F and rising.
- Take special precautions with snow removal equipment.



Additional Safety Margin Movement capacity accommodates concrete shrinkage, vertical deflection and unexpected movement.

PACKAGING

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

Lock-down Retaining Angle and Slide Plate Receiving Angle supplied in 10-foot lengths shipped on wooden pallets.

Hardware and other accessories packaged in cardboard cartons.

ABC 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

ABC Rubber Membrane Seal available in black. LokCrete is available in UV stable Black or Special Order Gray.

PRECAUTIONS

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

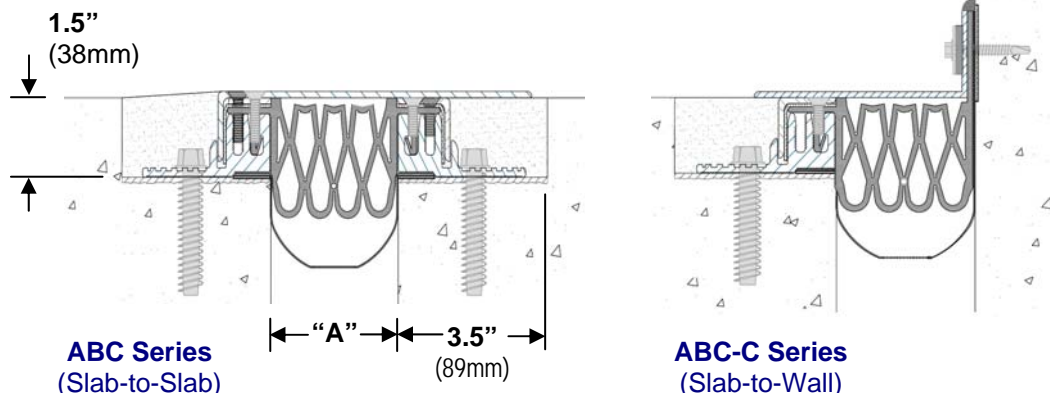
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SELECTION GUIDE / ABC SERIES

Model Number	Total Movement	Joint Opening "A"						Installation Width "A"			
		Min.		Max.		Safety Max.	Min.		Max.		
ABC-250	2.50 64	.750 19	2.50 64	3.25 83	1.25 32	2.25 57					
ABC-350	3.25 83	1.00 25	3.50 89	4.25 108	1.50 38	3.25 83					
ABC-450	4.00 102	1.50 38	4.50 114	5.50 140	2.25 57	4.25 108					
ABC-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 ABC-C Slab-to-Wall Movement Table.

Safety Max. – Safety Margin Movement capacity accommodates concrete shrinkage, vertical deflection and unexpected movement.



Note: Slide Plate Cover supplied in 1/8" aluminum unless otherwise specified.

PHYSICAL PROPERTIES

Physical Property	Test Method	Value
Elastoprene 100 Rubber		
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.

LIMITED WARRANTY

MM Systems warrants the Armored Strip Bolt-down Cover 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) Prepare substrate by sandblasting. The blockout must be clean and dry prior to installation.
- 3) Uncoil seal and allow it to relax in the sun for as long as possible before installation.
- 4) Factory Prefabricated Seal Transitions – splice seals transitions into place.
- 5) Secure aluminum frame to deck with wedge anchors.
- 6) Insert membrane seal into aluminum frame then apply Microsealant Waterproofing Tape.
- 7) Install retaining angle & bar over wing (flap) of seal.
- 8) Attach slide plate cover to base frame.
- 9) LokCrete (recommended) - Mix part A,B and C components per instructions and place into blockout. Trowel finish to specified elevation.
- 10) Install in accordance with detailed installation guide.

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