



BUILDING TRUST

Wabo[®]StripSeal

Parking Series

Armored joint and elastomeric concrete expansion joint system

Features	Benefits
 Flexible applications 	Variable steel extrusions provide greater flexibility to accommodate any new construction or repair project condition
 Versatile movement 	Accommodates various expansion joint movements and configurations.
 Heavy duty 	Accommodates heavy duty loads and deflections.
 Watertight 	Continuous sealing element prevents water from leaking through the expansion joint opening

DESCRIPTION:

The Wabo®StripSeal expansion joint system is a unique and superior joint system used in the construction and rehabilitation of expansion joints for bridges and parking decks. When poured into the blockout, the optional elastomeric concrete header flows and completely fills any voids, spalls or irregularities forming a monolithic unit. The Wabo®StripSeal system is well suited to high impact applications due to its durability and resistance to chemical attack in harsh environments. The rugged design of the system and elastomeric concrete header's high bond capability to both steel and concrete allows the system to accommodate the high loads of vehicular traffic. Wabo®StripSeal systems can accommodate a variety of field configurations along with multidirectional movements.



RECOMMENDED FOR:

- Sealing joints on bridges and parking decks
- Skewed joints
- High impact and repetitive loading conditions
- Expansion joint applications with a maximum movement of 5 inches.
- Overlay projects
- New construction or repair and maintenance of existing expansion joint systems

PACKAGING/COVERAGE:

- Steel extrusions are shipped in standard 20 foot lengths. Other lengths available, contact WBA for details.
- Rubber seals are cut to length and shipped on pallets per limitations of shipping methods
- Wabo[®]PrimaLub 1 gal container
 - Coverage = lineal ft x 0.00361

TECHNICAL DATA:

Design Information – Metal Components

The Wabo®StripSeal system typically incorporates the use of two standard metal edge members along with a sinusoidal anchorage. The sinusoidal anchorage is designed to transmit and distribute impact forces into the elastomeric concrete header. The profile and anchorage is provided in steel. All steel edge members are produced from A36 grade steel and are available in either coated or uncoated finishes. Additionally, A36 grade steel is recommended to be hot dipped galvanized for enhanced corrosion protection. Customers need to specify options when ordering.

Design Information – Elastomeric Gland

The Wabo®StripSeal system utilizes two standard elastomeric glands for use with the metal edge members. The SE series provides excellent movement capabilities and is available in a variety of size ranges. All SE profiles are produced from Neoprene rubber, which provides excellent chemical resistance. The SEC profiles are designed with ADA guidelines for pedestrian traffic. The SEC 400 seal is only available in Neoprene rubber (available in black only). The SEC 250 seal is available in Santoprene rubber (available in black only). Santoprene rubber can be heat welded in the field, which is excellent for creating watertight transitions. Customers need to specify options when ordering.



Note: see product sales drawings for additional details

Movement Table								
Model	Joint Width "A"						Min. Install	
Number	Min.		Max.		Total		Width	
Number	in	mm	in	mm	in	mm	in	mm
SE-300	0.00	0	3.00	76	3.00	76	1.50	38
SE-400	0.00	0	4.00	102	4.00	102	1.50	38
SE-500	0.00	0	5.00	127	5.00	127	2.00	51
SE-800	0.50	13	8.50	216	8.00	203	3.00	76
SEC-250	1.50	38	4.00	102	2.50	64	2.00	51
SEC-400	2.00	51	6.00	152	4.00	102	2.50	64





PHYSICAL PROPERTIES:

Steel Edge Members – All steel edge members are made from A36 Steel. The sinusoidal anchors are provided in A36 steel.

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENTS				
Tensile Strength, min	D 412	2,000 psi (13.8 Mpa)				
Elongation at Break, min	D 412	250%				
Hardness, Shore A	D 2240	55 +/- 5				
Oven Aging, 70 hrs. @ Tensile, max loss Elongation, max loss Change in Hardness	D 573	20% 20% 0 to 10 pts.				
Oil Swell, 70 hrs. @ 212ºF(100ºC) Weight Change, max	D 471	45%				
Ozone Resistance 70 hrs. @ 104ºF(40ºC)	D 1149	no cracks				
Low Temperature Stiffening	D 2240	0 to +15				

Elastomeric Gland (Neoprene)

Elastomeric Gland (Santoprene)

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENTS	
Tensile Strength, min	D-412	850 psi	
Elongation at Break, min	D-412	300%	
Hardness, Shore A	D-2240	67 +/- 3	
100% Modulus, min	D-412	275 psi	
Tear Strength, avg	D-624	140 lbs/in	
Tension Set, avg	D-412	10%	
Compression Set, max			
22 hrs @ 73?F	D-395	35%	
70 hrs @ 257?F		45%	
Ozone Resistance	D-1171	No cracks	
UV Resistance	SAE J1960	Pass	
Staining Resistance	D-925	No staining	
Brittle Point	D-746	-81?F	





INSTALLATION SUMMARY:

- Concrete substrates must be abrasive blasted to remove all latencies and contaminants which may cause bonding problems. Steel substrates must be abrasive blasted to near white metal.
- For sloped conditions, add Wabo[®] Non-Sag Additive to the liquid-aggregate mixture.
- If the system is to be installed in sections, special care should be taken to the field weld details on shop drawings.
- The Wabo®StripSeal joint system is lifted and lowered into final position. The edge members are suspended into the blockout utilizing adjustable leveling devices.
- Before securing or casting the system to the structure, the joint opening of the system should be adjusted to the proper ambient temperature.
- Complete all bolted or welded connections to the structure. When casting the joint into the structure, proper compaction of concrete around the system is required.
- The elastomeric gland should be field installed in continuous lengths spanning the entire joint length. Wabo[®]PrimaLub adhesive is brushed into the full perimeter of the gland cavity on the steel edge member prior to actual gland installation.

FOR BEST RESULTS:

- Install when concrete substrate is clean, sound, dry, and cured (14 day minimum).
- Do not install if the joint's anticipated movement will exceed the total movement range of the system.
- Protect the work area with appropriate plastic sheeting.
- Minimize splice points by installing seals in longest possible continuous lengths.
- Do not allow any of the components to freeze prior to installation. Store all components out of direct sunlight in a clean, dry location between 50°F (10°C) and 90°F (32°C).
- Periodically inspect the applied material and repair localized areas as needed. Consult a Sika Emseal representative for additional information.
- Make certain the most current version of the product data sheet is being used. Please consult the website (<u>www.emseal.com</u>) or contact a customer service representative.
- Proper application is the responsibility of the user. Field visits by Sika Emseal personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.





OPTIONS/EQUIPMENT:

- Elastomeric gland installation tool contact Sika Emseal for details.
- Use a ³⁄₄" slow speed, high torque, drill with a egg-beater (or mud beater) style mixing paddle to mix elastomeric concrete header.
- Certified welder to be utilized for field welding of sections.

RELATED DOCUMENTS:

- Safety Data Sheet
- Wab0®StripSeal Specification
- Wabo®StripSeal Sales Drawings
- Wabo®StripSeal Installation Procedure

LIMITED WARRANTY:

Emseal Joint Systems Ltd warrants that this product conforms to its current applicable specifications. SIKA EMSEAL MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. The sole and exclusive remedy of Purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of Emseal. Any claims concerning this product shall be submitted in writing within one year of the delivery date of this product to Purchaser and any claims not presented within that period are waived by Purchaser. IN NO EVENT SHALL SIKA EMSEAL BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDES LOSS OF PROFITS) OR PUNITIVE DAMAGES. Other warranties may be available when the product is installed by a factory trained installer. Contact your local Sika Emseal representative for details. The data expressed herein is true and accurate to the best of our knowledge at the time published; it is, however, subject to change without notice.

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