Wabo®Crete 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®Crete 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, Wabo®Crete II flows and completely fills any voids, spalls or irregularities forming a monolithic unit. The Wabo®Crete 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 Wabo®Crete II's high bond capability to both steel and concrete allows the system to accommodate the high loads of vehicular traffic. Wabo®Crete 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
- WaboCrete II
  - PTA – ½ gal container
  - PTB – 1 gal container
  - PTC – 60 lbs aggregate
  - A+B+C = 1 unit
    1 unit = 0.6 ft^3 (1030 in^3)
- Wabo®PrimaLub – 1 gal container
  - Coverage = lineal ft x 0.00361

BASF
The Chemical Company

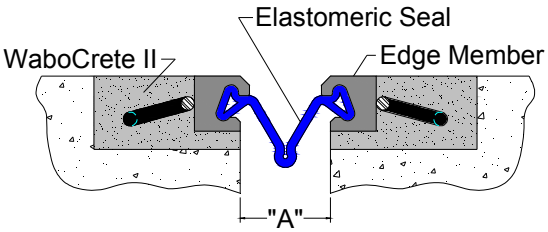
TECHNICAL DATA:

Design Information – Metal Components

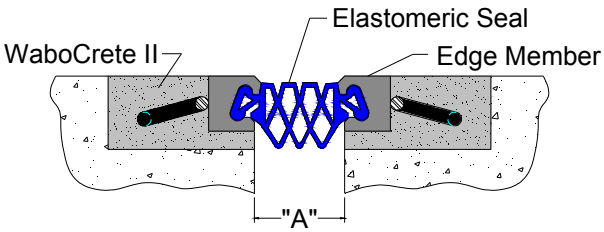
The WaboCrete StripSeal system typically incorporates the use of two standard metal edge members along with a sinusoidal anchorage. The sinusoidal anchorage is designed to transmit and distribute impact forces into the WaboCrete II elastomeric concrete. The profile and anchorage is provided in either steel or aluminum. All steel edge members are produced from either ASTM A588 or A36 grade steel and are available in either coated or uncoated finishes. Customers need to specify options when ordering.

Design Information – Elastomeric Gland

The WaboCrete 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. The SEC 250 seal is available in either Neoprene or Santoprene rubber. Santoprene rubber can be heat welded in the field, which is excellent for creating watertight transitions. The Santoprene rubber can be provided in either black or grey. All Neoprene rubber is provided in black. Customers need to specify options when ordering.



SE Series



SEC Series

Note: see product sales drawings for additional details

Movement Table

Model Number	Joint Width "A"						Min. Install Width	
	Min.		Max.		Total			
	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 either ASTM A36 or ASTM A588 Steel. The sinusoidal anchors are provided in ASTM A 36 steel.

Aluminum Edge Members – All aluminum edge members and associated sinusoidal anchors are provided in ASTM B221, alloy 6005-T6 or 6063T5 aluminum.

WaboCrete II Elastomeric Concrete – Refer to WaboCrete II data sheet for details on physical properties.

Elastomeric Gland (Neoprene)

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 (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 70 hrs @257°F	D-395	 35% 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.
- Apply WaboBonding Agent (primer) to surface of the properly prepared concrete prior to installation of WaboCrete II. DO NOT apply WaboBonding Agent to steel substrates. There must be no visible moisture prior to the application of the primer. Primer can be brush applied. DO NOT allow primer to dry prior to placement of WaboCrete II.
- For sloped conditions, add WaboNon Flow 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 WaboCrete 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. WaboPrimaLub adhesive is brushed into the full perimeter of the gland cavity on the steel edge member prior to actual gland installation.

Options/Equipment:

- Elastomeric gland installation tool, contact WBA for details.
- Use a ¾" slow speed, high torque, drill with a egg-beater (or mud beater) style mixing paddle to mix WaboCrete II
- Certified welder to be utilized for field welding of sections.

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).
- Shelf life of chemical components is approximately 1 year.
- Periodically inspect the applied material and repair localized areas as needed. Consult a Watson Bowman Acme representative for additional information.
- Make certain the most current version of the product data sheet is being used. Please consult the website (www.wbacorp.com) or contact a customer service representative.
- Proper application is the responsibility of the user. Field visits by Watson Bowman Acme personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Related Documents:

- WaboCrete II Product Data Sheet
- Material Safety Data Sheet
- Wabo®Crete StripSeal Specification
- Wabo®Crete StripSeal Sales Drawings
- Wabo®Crete StripSeal Installation Procedure

Contact
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