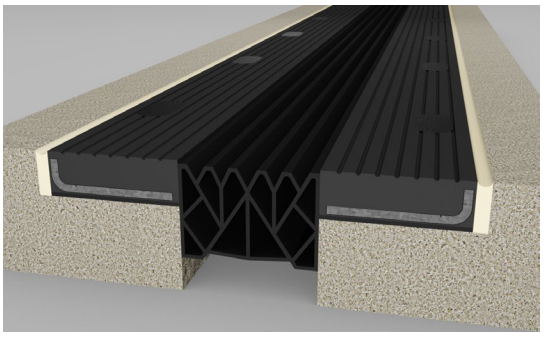
Wabo®ElastoFlex (EFJ)

Parking Series
Continuous Membrane Sealing System

Features	Benefits
• Non-Slip Surface	Anchor blocks and ADA compliant gland both produced from high quality elastomeric materials. Prevents corrosion and provides an excellent non-slip surface.
• Watertight	The bedding and edge void sealant insures a watertight seal to the concrete deck.
• Durable	Steel reinforced anchor blocks provide excellent support for heavy duty applications.

DESCRIPTION:

Wabo®ElastoFlex is a watertight continuous membrane system for joints with movements up to four inches in parking decks, loading docks, elevated roadways, entrance ramps, and other vehicle and forklift traffic areas. The system uses mechanically fastened EPDM anchor blocks with molded-in steel inserts to support heavy duty and high impact loads. The winged flap of the durable elastomeric seal is locked between the anchor block and concrete slab. A sealant bedding compound is applied between the winged flap and concrete slab to enhance the product's watertightness. The exposed surfaces are non-metallic and skid resistant while resisting UV deterioration and most chemicals. A tongue and groove connection at the end of each block prevents separation and uplift



RECOMMENDED FOR:

- Sealing of joints in parking decks, convention centers, or anywhere a heavy duty expansion joint system is required.
- New construction and rehabilitation projects
- Excellent for loading docks, ramps, bridges, fork truck, snow plows, and buses.

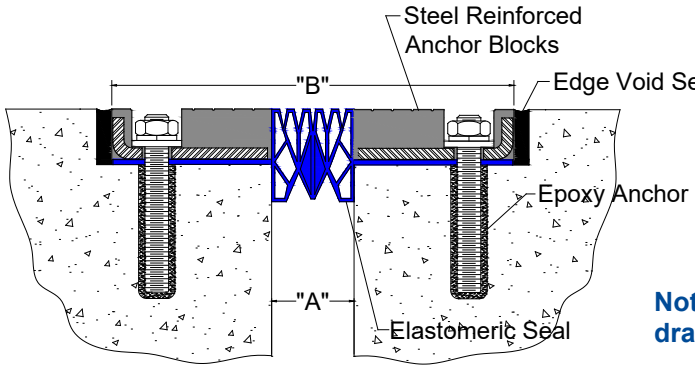
PACKAGING/COVERAGE:

- Elastomeric glands supplied in continuous lengths.
- Anchor blocks supplied in standard 6 foot panels and shipped on pallets.
- NP1 Sealant is an elastomeric rubber compound used to seal the edge voids. NP1 Sealant is supplied in 9.8 oz. tubes.
- Bolt hole cavities can be sealed with Sika Emseal elastomeric concrete (not included in standard system – Consult Sika Emseal).
- NP1 Sealant and Wabo®Crete II coverage will depend on placement, waste and experience.

TECHNICAL DATA:

Design Information:

Wabo®ElastoFlex is a bolt-down expansion joint system, which requires an anchor embedment depth of 4.75-inches from top riding surface. Contact Emseal for alternate anchoring systems, if required.



EFJ Series

Note: see product sales drawings for additional details

Movement Table

Model Number	Joint Opening "A"						System Width "B"			
	Min.		Max.		Total		Min.		Max.	
	in	mm	in	mm	in	mm	in	mm	in	mm
EFJ-225	1.00	25	2.25	57	1.25	32	9.00	229	10.25	260
EFJ-300	1.44	37	3.00	76	1.56	40	9.44	240	11.00	279
EFJ-400	1.50	38	4.00	102	2.50	64	9.50	241	12.00	305
EFJ-600	2.00	51	6.00	152	4.00	102	10.00	254	14.00	356
EFJ-225C	1.00	25	2.25	57	1.25	32	5.00	127	6.25	159
EFJ-300C	1.44	37	3.00	76	1.56	40	5.44	138	7.00	178
EFJ-400C	1.50	38	4.00	102	2.50	64	5.50	140	8.00	203
EFJ-600C	2.00	51	6.00	152	4.00	102	6.00	152	10.00	254

PHYSICAL PROPERTIES:

Steel Reinforcement
The steel angles imbedded in the molded anchor blocks are formed from ASTM A36 steel.

EPDM Anchor Blocks

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENTS
Tensile Strength, min	D-412	1500 psi
Elongation at Break, min	D-412	250%
Hardness, Shore A	D-2240	65 +/- 5
Heat Resistance (70hrs@212?F) Tensile Strength, max Elongation, max Hardness, max	D-573	 25% 25% 10 pts
Oil Resistance (70 hrs@212?F) Volume, max	D-471	 120%
Ozone Resistance 50 pphm for 72 hrs @ 104?F	D-1149	 100 rating
Compression Set 22 hrs @ 212F, max	D-395	 50%

Requirements shown reflect test results taken immediately following compound mixing. Results may vary and are not indicative of product performance if specimens are skived from finished, molded parts.

APPLICATION:

INSTALLATION SUMMARY:

- **Newly placed concrete -** The concrete joint interface must be dry and clean (free of dirt, coatings, rust, greases, oil and other contaminants), sound and durable. New concrete must be cured (minimum of 14 days).
- **Aged Concrete -** The blockout should be of sound concrete. Loose, contaminated, weak, spalled, deteriorated concrete must be removed to sound concrete and repaired prior to placement of the expansion joint system. Any spalling, voids or structural cracking at the joint interface must be repaired.
- Prepare blockout to proper dimensions and grade. The bottom of the blockout shall be parallel with the plane of the roadway (true and flat).
- Ensure anchors are installed at right angles to the bottom of the blockout, at the correct spacing.
- Position the elastomeric gland in the blockout, following installation guidelines for curb upturns.
- Position the anchor blocks starting at the curbs.
- Field cut one section for exact fit.
- Tighten the anchors to the required torque. Retorque after approximately one hour.
- Fill bolt hole cavities and edge voids with sealant.

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 system's movement range.
- 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 Sika Emseal representative for additional information.
- Make certain the most current version of the product data sheet is being used. Please consult the website (www.emseal.com) or contact a customer service representative.
- Proper application is the responsibility of the user. Field visits by Emseal personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

ADDITIONAL REQUIREMENTS/EQUIPMENT:

- Torque wrench to tighten anchors.
- Pry bar to more or position panels.

RELATED DOCUMENTS:

- Material Safety Data Sheets
- Wabo®ElastoFlex Specifications
- Wabo®ElastoFlex Sales Drawings
- Wabo®ElastoFlex 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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