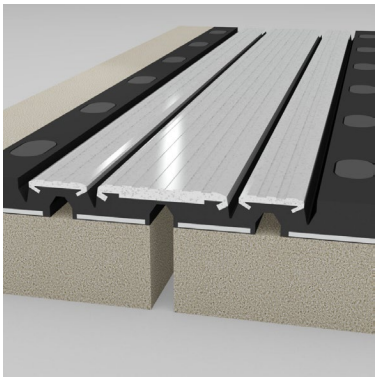
Wabo®Flex

Molded rubber segmental expansion joint system

Features	Benefits
• Minimal exposed gap	Prevents accumulation of debris, ice and incompressible items. Provides a smooth riding surface.
• Versatility	Combines the strength of metals and the flexibility of rubber.
• Durability	Steel reinforced rubber provides a durable surface under traffic and adjusts readily to structural movement. Aluminum surface provides a slip-resistant riding surface
• Constructability	No welding required on site, tongue and groove connection



DESCRIPTION:

Wabo®Flex is a molded rubber segmental expansion joint designed to accommodate structure movements from 2 inches up to 13 inches. The Wabo®Flex system consists of molded rubber segments which are steel reinforced and imbedded with corrosion-resistant aluminum wear plates. Tongue and grooves at the end of each rubber segment prevent uplift or separation while ensuring a watertight connection.

RECOMMENDED FOR:

- Shallow concrete depth
- Bridge decks and ramps
- Expansion joint applications with maximum movement of 13 inches.
- New construction or repair and maintenance of existing joints.
- Staged construction

PACKAGING/COVERAGE:

- Wabo®Flex is supplied in standard 6-foot sections, except for SR13, which are supplied in 4 foot sections. Sections are shrink wrapped and shipped on pallets.
- Sikaflex 1a Edge Void Sealant is supplied in 9.8 oz tubes. Check Sikaflex tube size.
- Coverage for all components will depend on void size, placement, waste, and experience.

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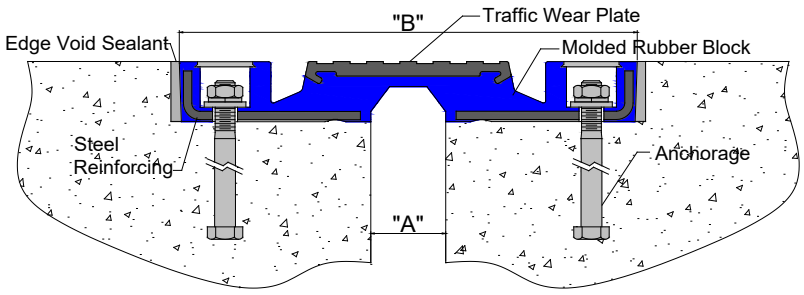
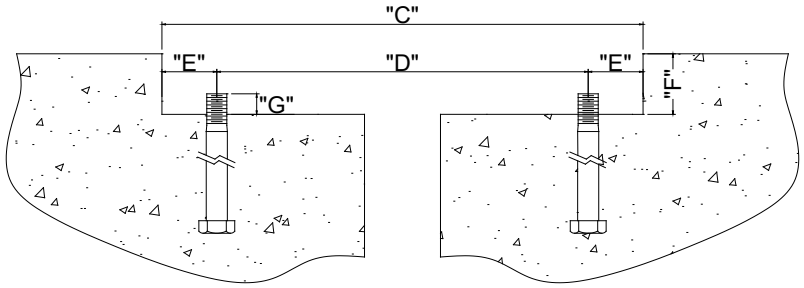
BUILDING TRUST

TECH:



Blockout Data



Movement Table:

Model Number	Molded Dimensions				Joint Opening "A"						System Width "B"			
	Width		Height		Min.		Max.		Total		Min.		Max.	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
SR 2A	10.625	270	1.563	40	1.000	25	3.000	77	2.000	51	9.625	244	11.625	296
SR 2.5A	13.750	349	1.813	46	1.375	35	3.875	98	2.500	64	12.500	318	15.000	381
SR 4A	23.000	584	2.125	54	1.000	25	5.000	127	4.000	102	21.000	533	25.000	635
SR 6.5A	28.000	711	3.000	76	1.500	38	8.000	203	6.500	165	24.750	629	31.250	794
SR 9	37.375	949	3.750	95	1.750	44	10.750	273	9.000	229	32.875	835	41.875	1064
SR 13	55.000	1397	5.000	127	2.000	51	15.000	381	13.000	330	48.500	1232	61.500	1562

Model Number	"C"				"D"				"E"		"F"		"G"	
	Min		Max		Min.		Max.							
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
SR 2A	10.125	257	12.125	308	7.375	187	9.375	239	1.375	35	1.813	46	1.250	32
SR 2.5A	13.000	330	15.500	394	9.750	248	12.250	311	1.625	41	2.063	52	1.500	38
SR 4A	21.500	546	25.500	648	17.625	448	21.625	549	1.938	49	2.375	60	1.750	44
SR 6.5A	25.250	641	31.750	806	21.000	533	27.500	699	2.125	54	3.250	83	2.000	51
SR 9	33.375	848	42.375	1076	29.000	737	38.000	965	2.188	56	4.000	102	2.250	57
SR 13	49.000	1245	62.000	1575	43.500	1105	56.500	1435	2.750	70	5.250	133	2.750	70

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PHYSICAL PROPERTIES:

Metal Components

The aluminum plate utilized for the skid resistant surface shall be from alloy 60661-T6 (ASTM B-221-73). The steel angles imbedded in the molded neoprene panels are formed ASTM A36 steel.

Elastomeric Seal

The neoprene material shall have the physical properties conforming to the following requirements:

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENTS
Tensile Strength, min	D 412	1,800 psi
Elongation at Break, min	D 412	400%
Hardness, Shore A	D 2240	45 +/-5
Compression Set, 22 hrs@158F	D 395	20%
Oil Swell, 70 hrs. @212ºF(100ºC)	D 471	120%
Ozone Resistance	D 1149	no cracks
Low Temperature Brittleness	D 746	not brittle

Requirements shown above 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.

INSTALLATION SUMMARY:

- **Newly placed concrete:** the joint interface must be dry and clean (free of dirt, coatings, rust, grease, oil, and other contaminants), sound and durable. New concrete must be cured (minimum of 14 days).
- **Aged concrete:** loose, contaminated, weak, spalled, deteriorated and/or delaminated concrete must be removed to sound concrete and repaired prior to placement.
- Prepare blockouts to proper dimensions and grades. Care should be taken to ensure all anchors are set at right angles to the bottom of the blockout.
- The joint opening must be abrasive blasted to remove all laitance and contaminants which may cause bonding problems. The joint opening should be blown clean using compressed air
- Install WaboFlex units starting at the curb over the applied bedding tape.
- Proceed until reaching the field cut piece. Apply Sikaflex 1a to ends of field cut pieces prior to final placement.
- Retourque all anchors approximately one half hour after tightening.
- Fill bolt holes with URA Sealant and edge voids between WaboFlex sections and vertical face with Sikaflex 1a.

OPTIONS/EQUIPMENT:

- Torque wrench to tighten anchors
- Pry bar to move or position panel
- Hydraulic ram assembly to adjust system for ambient temperature

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.
- 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 and 90˚F. Do not store in high humidity.
- Do not install when surface temperature is less than 40˚F for best performance of sealants and epoxy.
- 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.watsonbowmanacme.com) or contact a customer service representative.

RELATED DOCUMENTS:

- Material Safety Data Sheets
- WaboFlex Specification
- WaboFlex Sales Drawings
- WaboFlex Installation Procedure
- ADD ONS: WaboGutterflex

LIMITED WARRANTY:

WaboFlex_0324

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