Bridge & Highway Maintenance
Expansion Joint Systems

ARMORLESS JOINT SYSTEMS
JOINT SEALS
SEGMENTAL JOINT SYSTEMS
JOINT HEADER & SPALL REPAIR

BASF
The Chemical Company
Bridges throughout North America are deteriorating at an alarming rate. Structural damage caused by increased loadings, traffic congestion, the effect of salt water and the high costs of repairs has increased the demand for better construction techniques and improved design and installation products for the repair.

Watson Bowman Acme continues to improve and enhance the performance and installation of bridge expansion joint systems. Because of this constant drive to improve, there is a wide selection of systems, materials and performance capabilities from which an owner or engineer may select.
Backed by a World Leader.

The BASF Group comprises more than 160 subsidiaries and joint ventures and operates more than 150 production sites in Europe, Asia, North America, South America and Africa. BASF has customers in over 200 countries and supplies products to a wide variety of industries.

More than just a leader in its industry, BASF is also a global leader in sustainability and corporate social responsibility. The company is included in the Innovest Global 100 list – among the world’s most successful companies in the areas of environmental protection, social affairs and corporate governance. BASF is also listed on the FTSE4Good Index and Storebrand SRI Funds.

BASF has won awards from the Sustainable Buildings Industry Council and the American Plastics Council for its Eco-Efficiency Analysis. This industry-leading sustainability measurement tool provides certified and robust quantitative analysis of both the ecological and economic impact of products over their lifecycle. Most importantly, the tool provides measurement from a customer perspective, allowing the user to observe the effects of various actions on different future scenarios.

For additional information about Watson Bowman Acme products, please visit our website at www.wbacorp.com

WBA can develop a custom product to meet your specific application.

Contact us at 800.677.4922 for more information.
Wabo® Crete SiliconeSeal
High Performance Silicone and Elastomeric Concrete Expansion Joint System

Licensed for use under US Patent No 5,190,395

Wabo® Crete SiliconeSeal system is a high performance expansion joint system utilizing a dynamic two-part sealant between impact absorbing elastomeric concrete headers. The flexible header of Wabo® Crete II coupled with Wabo® SiliconeSeal make it an ideal expansion joint system for the new construction or repair of existing joints. With an extensive history, Wabo® Crete II elastomeric concrete is most widely used in header applications for bridges and parking structures. The polyurethane based header material was developed to minimize edge spalling associated with high impact loads while achieving superior bonding capabilities to a variety of substrates. Product packaging is designed to minimize waste and maximize installation workforce output. The cold applied self leveling sealant requires no priming which simplifies & accelerates the installation process.

**FEATURES:**
- Eliminates the need for anchors and moving parts
- Has the ability to flow and fill in any spalls or inconsistencies
- Provides a watertight system
- Accommodates heavy and repetitive impact loading
- Prevents further joint header deterioration
- Cold-applied, self-leveling ambient cure expansion joint system
- Excellent movement range (+100% / -50%)
- No priming of the joint interface is required
- Allows for rapid installation

**RECOMMENDED FOR:**
- Horizontal expansion joint applications on bridges and highways
- New construction or repair and maintenance of existing expansion joints
- Structures where minimum construction closure time is a factor
- Expansion joint applications with a maximum movement range of +100% / -50% of the joint gap
Wabo®Crete FlexFoam
Armorless Closed-cell Joint Seal and Elastomeric Concrete Expansion Joint System

Wabo®Crete FlexFoam armorless expansion joint systems are designed with closed-cell foam joint seals installed with epoxy adhesive between an impact absorbing elastomeric concrete header. The high impact absorbing, ambient cured and self-leveling properties of the Wabo®Crete II joint header allows for the joint system to monolithically bond to the deck creating a watertight system. Incorporating an elastomeric concrete joint header minimizing edge spalling while achieving superior bonding capabilities to a variety of substrates.

The system seals are available in a variety of sizes. Wabo®Crete FlexFoam IV series incorporates a neoprene seal designed with ribs on the sides to assure adhesion to the elastomeric concrete header. Wabo®Crete FlexFoam EV series incorporates a low density cross-linked ethylene vinyl acetate copolymer nitrogen blown joint seal with grooves placed along its edges to ensure and enhance its bond strength.

**FEATURES:**
- Accommodates movement cycle through compression and tension
- Configurations assure that profile will not protrude above surface level
- Impact absorbing joint header fills irregularities in blockout
- Non-metalic system allows for quick joint repairs and short traffic closures
- Minimizes dirt or debris accumulation
- Accommodates heavy and repetitive impact loading
- Prevents further joint header deterioration
- Can accommodate varying joint widths

**RECOMMENDED FOR:**
- Horizontal expansion joint applications on bridges and interstate highways
- New construction or repair and maintenance of existing expansion joints
- Expansion joints with varying joint widths

**Model #**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Joint Opening &quot;A&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>IV-100</td>
<td>1.000 25 1.000 25</td>
</tr>
<tr>
<td>IV-150</td>
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<tr>
<td>IV-200</td>
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<tr>
<td>IV-250</td>
<td>2.500 64 2.500 64</td>
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<td>3.000 76 2.500 64</td>
</tr>
<tr>
<td>IV-400</td>
<td>4.000 102 3.000 76</td>
</tr>
</tbody>
</table>

**Spec Sheet**

Wabo®Crete FlexFoam armorless expansion joint systems are designed with closed-cell foam joint seals installed with epoxy adhesive between an impact absorbing elastomeric concrete header. The high impact absorbing, ambient cured and self-leveling properties of the Wabo®Crete II joint header allows for the joint system to monolithically bond to the deck creating a watertight system. Incorporating an elastomeric concrete joint header minimizing edge spalling while achieving superior bonding capabilities to a variety of substrates.

The system seals are available in a variety of sizes. Wabo®Crete FlexFoam IV series incorporates a neoprene seal designed with ribs on the sides to assure adhesion to the elastomeric concrete header. Wabo®Crete FlexFoam EV series incorporates a low density cross-linked ethylene vinyl acetate copolymer nitrogen blown joint seal with grooves placed along its edges to ensure and enhance its bond strength.

**FEATURES:**
- Accommodates movement cycle through compression and tension
- Configurations assure that profile will not protrude above surface level
- Impact absorbing joint header fills irregularities in blockout
- Non-metalic system allows for quick joint repairs and short traffic closures
- Minimizes dirt or debris accumulation
- Accommodates heavy and repetitive impact loading
- Prevents further joint header deterioration
- Can accommodate varying joint widths

**RECOMMENDED FOR:**
- Horizontal expansion joint applications on bridges and interstate highways
- New construction or repair and maintenance of existing expansion joints
- Expansion joints with varying joint widths

**For additional information see product sales drawing**
Wabo®Expandex
Asphaltic Plug Joint System

Wabo®Expandex is a flexible asphaltic plug joint system designed to accommodate minimum structure movement while providing a smooth transition between the approach pavement and the bridge deck. Wabo®Expandex is used typically at abutments or with asphalt overlays due to its unique asphalt compatibility. The system combines the use of a traffic bearing plate with special aggregate reinforced modified elastomeric material.

FEATURES:
- Eliminates dirt and debris accumulation with its at grade construction
- System can be milled or planed during resurfacing operations
- Can accommodate inconsistencies in the expansion joint opening
- Single pour application, yields minimum traffic downtime
- Aesthetically “hidden joint” providing a smooth riding surface and transition to existing pavement

RECOMMENDED FOR:
- Sealing joints on secondary highway bridge structures
- Expansion joint openings with movements up to +/- 0.75” at time of installation
- Repair and maintenance of existing joints
- Asphalt overlay projects

for additional information see product sales drawing
Jeene® is a patented structural sealing joint system comprised of a neoprene profile, which is air-pressurized and bonded in place with a specially formulated epoxy adhesive. When properly installed, the high performance Jeene® joint system will not tear away, protrude out of, or slip from its original position when exposed to repeated mechanical or thermal movements. Complete adhesion of the epoxy to the profile and joint wall is achieved due to the air inflation during installation. Jeene® is the most durable, versatile, cost-effective, and watertight expansion joint in the industry.

FEATURES:
- Accommodates forces associated with multi-directional movements
- Resistant to hydrostatic pressure
- Allows for the combination of shear, rotation and skew movements
- Accommodates thermal movement

RECOMMENDED FOR:
- Sealing joints on bridges roadways and tunnels
- Expansion joints requiring multi-directional movement
- Linear, angular, or circular expansion joint applications

<table>
<thead>
<tr>
<th>Model #</th>
<th>Required Joint Gap</th>
<th>Horizontal Movement Range “A”</th>
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<tbody>
<tr>
<td></td>
<td>Width</td>
<td>Depth</td>
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<tr>
<td></td>
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<tr>
<td>25W</td>
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<td>2.500</td>
<td>64</td>
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<tr>
<td>75W</td>
<td>3.000</td>
<td>76</td>
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<tr>
<td>100W</td>
<td>3.875</td>
<td>98</td>
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<td>25FW</td>
<td>1.000</td>
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</tr>
<tr>
<td>125FW</td>
<td>5.000</td>
<td>127</td>
</tr>
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</table>

Profile size should be chosen to match the gap opening at median temperature range of expected movement. Inch measurements have been converted from metric and rounded to nearest 1/8”. Consult your WBA Representative with your special design requirements.
Wabo®Evazote UV
Low Density, Closed Cell, Cross-Linked Nitrogen Blown Joint Seal

Wabo®Evazote UV is preformed low density closed cell cross-linked ethylene vinyl acetate polyethylene copolymer nitrogen blown joint seal that is bonded into place with a two component 100% solids modified epoxy adhesive. Wabo®Evazote is capable of accommodating movements and variations in joint widths through compression and tension. The seal has a working range of 60% compression, 30% tension and 120% shear. The UV stability of Wabo®Evazote allows the seal to be resistant to abrasion, oxidation, oils, salt and other materials that are spilled on or applied to the surface. Grooves are placed along its edges to ensure and enhance its bond strength.

FEATURES:
- Can withstand hydrostatic pressure
- Resists ultraviolet degradation and is chemically inert
- Working movement range of 60% compression and 30% tension
- Can accommodate varying joint widths

RECOMMENDED FOR:
- Sealing joints on bridges
- Repair and maintenance of existing joints
- Horizontal and vertical applications
- Expansion joints with varying joint widths.

<table>
<thead>
<tr>
<th>Model</th>
<th>Joint Opening “A”</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Width</td>
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<tr>
<td></td>
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</table>

Contact your WBA Representative with your special design requirements

Wabo®Evazote UV
for additional information see product sales drawing

Can withstand hydrostatic pressure
Resists ultraviolet degradation and is chemically inert
Working movement range of 60% compression and 30% tension
Can accommodate varying joint widths
Wabo®InverSeal
A preformed flexible closed cell neoprene joint seal

Wabo®InverSeal is extruded as a preformed flexible, closed cell neoprene, expanded rubber foam seal that is bonded into place with a specially formulated epoxy adhesive. Wabo®InverSeal in capable of accommodating movements and variations in joint widths through the compression and tension of its shape. The seal profile is extruded with serrated sidewalls to ensure a quality bond area for the application of the epoxy adhesive.

<table>
<thead>
<tr>
<th>Model #</th>
<th>Seal Size</th>
<th>Min Install Width</th>
<th>Joint Opening “A”</th>
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<tr>
<td></td>
<td>in</td>
<td>mm</td>
<td>in mm in mm</td>
</tr>
<tr>
<td>IV-100</td>
<td>1.000</td>
<td>25</td>
<td>0.800 11 1.250 32</td>
</tr>
<tr>
<td>IV-150</td>
<td>1.500</td>
<td>38</td>
<td>1.200 17 1.875 48</td>
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<tr>
<td>IV-200</td>
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<td>51</td>
<td>1.600 23 2.500 64</td>
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<tr>
<td>IV-250</td>
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<td>64</td>
<td>2.000 29 3.125 79</td>
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<tr>
<td>IV-300</td>
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<td>76</td>
<td>2.400 34 3.750 95</td>
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<tr>
<td>IV-400</td>
<td>4.000</td>
<td>102</td>
<td>3.200 46 5.000 127</td>
</tr>
</tbody>
</table>

**FEATURES:**
- Designed to work in 55% compression and 25% tension
- Profile is extruded with serrated walls to assure a quality bond area
- Adapts to varying joint widths
- Allows for quick joint repairs and short traffic closures
- Manufactured of high-quality neoprene
- Highly resistant to chemicals, fuels and weather extremes

**RECOMMENDED FOR:**
- Bridges and elevated roadways
- Expansion joints with varying joint widths
Wabo® Compression Seal

Preformed Elastomeric Joint Seal

Wabo® Compression Seal bridge series is a preformed elastic joint seal manufactured of neoprene and installed with a lubricant adhesive. It is highly resistant to deterioration from exposure to weather, sunlight, oils and impact. When properly installed, the Wabo® Compression Seal bridge series provides a permanent seal for any type construction whether in bridges, parking decks, or buildings.

Featuring an internal elastomeric cross-sectional web configuration, the seal design allows it to exert a continuous and uniform force against the joint walls therefore effectively preserving water tightness. Even at the lowest design temperature, the seal will retain its elasticity while maintaining a minimum of 15% compression to assure a dependable seal. The Wabo® Compression Seal bridge series has proven itself to be an effective and efficient seal in resisting the differential movements and extreme conditions found in high impact structures.

**FEATURES:**
- Cost effective solution with over 30 years history of success
- Wabo® PrimaLub lubricant facilitates the installation of the system
- Conforms to various structural configurations
- Proven profile design provides uniform compression
- Highly resistant to deterioration from exposure to weather, sunlight, oils, chemicals, heat, abrasion and impact

**RECOMMENDED FOR:**
- Sealing expansion joints on bridge and highway structures
- Heavy duty traffic and high load applications

**FEATURES:**
- Cost effective solution with over 30 years history of success
- Wabo® PrimaLub lubricant facilitates the installation of the system
- Conforms to various structural configurations
- Proven profile design provides uniform compression
- Highly resistant to deterioration from exposure to weather, sunlight, oils, chemicals, heat, abrasion and impact

**RECOMMENDED FOR:**
- Sealing expansion joints on bridge and highway structures
- Heavy duty traffic and high load applications

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### Model # | Total Movement | Groove Width “A” | Min. Install Width | Groove Depth “B” | Nominal Width | Nominal Height
---|---|---|---|---|---|---
WA-162 | .756 | 19 | .625 | 16 | 1.381 | 35 | 1.000 | 25 | 2.125 | 54 | 1.625 | 41 | 1.625 | 41
WA-175 | .800 | 20 | .688 | 17 | 1.488 | 38 | 1.000 | 25 | 2.625 | 67 | 1.750 | 44 | 2.000 | 51
WA-200 | .825 | 21 | .875 | 22 | 1.700 | 43 | 1.250 | 32 | 2.625 | 67 | 2.000 | 51 | 2.000 | 51
WA-225 | .960 | 24 | .953 | 24 | 1.913 | 49 | 1.375 | 35 | 3.000 | 76 | 2.250 | 57 | 2.250 | 57
WA-250 | 1.125 | 29 | 1.000 | 25 | 2.125 | 54 | 1.500 | 38 | 3.563 | 90 | 2.500 | 64 | 2.500 | 64
WA-300 | 1.425 | 36 | 1.125 | 29 | 2.550 | 65 | 1.750 | 44 | 4.313 | 110 | 3.000 | 76 | 3.000 | 76
WA-350 | 1.600 | 41 | 1.375 | 35 | 2.975 | 76 | 2.250 | 57 | 4.438 | 113 | 3.500 | 89 | 3.500 | 89
WA-400 | 1.775 | 45 | 1.625 | 41 | 3.400 | 86 | 2.500 | 64 | 5.000 | 127 | 4.000 | 102 | 4.000 | 102
WA-500 | 2.563 | 65 | 1.687 | 43 | 4.250 | 108 | 3.000 | 76 | 5.938 | 151 | 5.000 | 127 | 5.000 | 127
WA-600 | 3.100 | 79 | 2.000 | 51 | 5.100 | 130 | 3.500 | 89 | 7.750 | 197 | 6.000 | 152 | 6.000 | 152

WG and WJ Elastomer Seal Profiles are also available. Consult your WBA Representative with your special design requirements.
Wabo® PavementSeal
Preformed Elastomeric Joint Seal

Wabo® PavementSeal is a preformed elastic joint seal designed for concrete pavements. Manufactured of neoprene and installed with a lubricant adhesive, it is highly resistant to deterioration from exposure to weather, sunlight, oils, and impact. One of the major causes of pavement blow-up is the entrance of incompressibles entering into the jointing systems. Wabo® PavementSeal is designed with an internal elastomeric cross-sectional web design that allows the pavement to expand and contract during temperature changes.

**FEATURES:**
- Specifically designed for concrete pavement and low stress applications
- Resistant to jet fuels, weather extremes, and high impacts
- Joint configurations maintain sidewall pressure allowing uniform contact
- Lubricant adhesive facilitates installation and fills minor voids in the joint

**RECOMMENDED FOR:**
- Sealing joints for concrete pavement joints
- Primarily used for concrete roadways, airport runways, and aprons
- Expansion joint applications with maximum movements less than 1 inch

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**Model#** | **Total Movement** | **Groove Width “A”** | **Min. Install Width** | **Groove Depth “B”** | **Nominal**
--- | --- | --- | --- | --- | ---
| | **Min.** | **Max.** | **Min.** | **Max.** | **Width** | **Height** |
| in mm | in mm | in mm | in mm | in mm |
| WB-437 | .207 5 | .360 9 | .250 6 | 1.000 25 | .438 11 | .563 14 |
| WB-687 | .310 8 | .550 14 | .375 10 | 1.250 32 | .688 17 | .688 17 |
| WB-1000 | .450 11 | .800 20 | .500 13 | 1.750 44 | 1.000 25 | 1.125 29 |
| WB-1250 | .563 14 | 1.000 25 | .625 16 | 2.000 51 | 1.250 32 | 1.125 29 |

Consult your WBA Representative with your special design requirements

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for additional information see product sales drawing
Wabo® SiliconeSeal
Two Part Silicone Joint Seal

Wabo® SiliconeSeal is a dynamic two-part sealant designed for horizontal expansion joints on bridges, parking decks, and open air structures. The cold applied, self-leveling, low modulus sealant is ideally suited for the new construction or repair of existing expansion joints. When properly mixed, the sealant cures rapidly to form a well bonded elastomeric seal capable of accommodating movements + 100% / - 50% of the joint opening. Wabo® SiliconeSeal does not require the use of any primers.

FEATURES:
- + 100% / - 50% joint movement
- Rapid Cure — skins within 20 minutes and can accept traffic after 1 hour
- Self-leveling and quick curing
- No primer required

RECOMMENDED FOR:
- Sealing horizontal joints on bridges and parking garages
- Expansion joint applications with a maximum movement range of +100% / -50% of the joint opening
- Structures where minimum construction closure time is a factor
- New construction or repair and maintenance of existing joints

for additional information see product sales drawing
Wabo®HSeal is a pre-compressed elastomeric coated expansion joint system designed to provide a permanent weather tight seal. Primarily used in horizontal applications, the system is sealed in place with an epoxy, which allows it to accommodate horizontal, vertical, and skew expansion joint movements.

Wabo®HSeal consists of a UV stable, mico-cell, polyurethane foam impregnated with a hydrophobic polymer and topped with a traffic grade elastomeric coating. The impregnated foam provides a valuable secondary water tight seal in case the primary elastomeric coating is damaged. The system is supplied in pre-compressed sticks ready to be easily installed.

**FEATURES:**
- Can accommodate horizontal, vertical and skew expansion joint movements
- No mechanical anchors allowing for easy installation
- UV stable polymer impregnated foam acts as a secondary sealant
- Pre-Compresses

**RECOMMENDED FOR:**
- Sealing joints on bridges, sound wall & barriers
- Repair and maintenance of existing joints
- Horizontal and vertical applications
- Expansion joints with varying joint widths

### Table: Wabo®HSeal Joint System Specifications

<table>
<thead>
<tr>
<th>Model #</th>
<th>System Depth “B”</th>
<th>Joint Opening “A”</th>
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<tr>
<td>100EH</td>
<td>4.00</td>
<td>102</td>
</tr>
</tbody>
</table>

**Epoxy Adhesive**

**Wabo®HSeal**

**Pre-Compressed Horizontal Expansion Joint System**

Wabo®HSeal is a pre-compressed elastomeric coated expansion joint system designed to provide a permanent weather tight seal. Primarily used in horizontal applications, the system is sealed in place with an epoxy, which allows it to accommodate horizontal, vertical, and skew expansion joint movements.

Wabo®HSeal consists of a UV stable, mico-cell, polyurethane foam impregnated with a hydrophobic polymer and topped with a traffic grade elastomeric coating. The impregnated foam provides a valuable secondary water tight seal in case the primary elastomeric coating is damaged. The system is supplied in pre-compressed sticks ready to be easily installed.

**FEATURES:**
- Can accommodate horizontal, vertical and skew expansion joint movements
- No mechanical anchors allowing for easy installation
- UV stable polymer impregnated foam acts as a secondary sealant
- Pre-Compresses

**RECOMMENDED FOR:**
- Sealing joints on bridges, sound wall & barriers
- Repair and maintenance of existing joints
- Horizontal and vertical applications
- Expansion joints with varying joint widths

**Wabo®HSeal**

**Pre-Compressed Horizontal Expansion Joint System**

Wabo®HSeal is a pre-compressed elastomeric coated expansion joint system designed to provide a permanent weather tight seal. Primarily used in horizontal applications, the system is sealed in place with an epoxy, which allows it to accommodate horizontal, vertical, and skew expansion joint movements.

Wabo®HSeal consists of a UV stable, mico-cell, polyurethane foam impregnated with a hydrophobic polymer and topped with a traffic grade elastomeric coating. The impregnated foam provides a valuable secondary water tight seal in case the primary elastomeric coating is damaged. The system is supplied in pre-compressed sticks ready to be easily installed.

**FEATURES:**
- Can accommodate horizontal, vertical and skew expansion joint movements
- No mechanical anchors allowing for easy installation
- UV stable polymer impregnated foam acts as a secondary sealant
- Pre-Compresses

**RECOMMENDED FOR:**
- Sealing joints on bridges, sound wall & barriers
- Repair and maintenance of existing joints
- Horizontal and vertical applications
- Expansion joints with varying joint widths

**Wabo®HSeal**

**Pre-Compressed Horizontal Expansion Joint System**

Wabo®HSeal is a pre-compressed elastomeric coated expansion joint system designed to provide a permanent weather tight seal. Primarily used in horizontal applications, the system is sealed in place with an epoxy, which allows it to accommodate horizontal, vertical, and skew expansion joint movements.

Wabo®HSeal consists of a UV stable, mico-cell, polyurethane foam impregnated with a hydrophobic polymer and topped with a traffic grade elastomeric coating. The impregnated foam provides a valuable secondary water tight seal in case the primary elastomeric coating is damaged. The system is supplied in pre-compressed sticks ready to be easily installed.

**FEATURES:**
- Can accommodate horizontal, vertical and skew expansion joint movements
- No mechanical anchors allowing for easy installation
- UV stable polymer impregnated foam acts as a secondary sealant
- Pre-Compresses

**RECOMMENDED FOR:**
- Sealing joints on bridges, sound wall & barriers
- Repair and maintenance of existing joints
- Horizontal and vertical applications
- Expansion joints with varying joint widths

**Wabo®HSeal**

**Pre-Compressed Horizontal Expansion Joint System**

Wabo®HSeal is a pre-compressed elastomeric coated expansion joint system designed to provide a permanent weather tight seal. Primarily used in horizontal applications, the system is sealed in place with an epoxy, which allows it to accommodate horizontal, vertical, and skew expansion joint movements.

Wabo®HSeal consists of a UV stable, mico-cell, polyurethane foam impregnated with a hydrophobic polymer and topped with a traffic grade elastomeric coating. The impregnated foam provides a valuable secondary water tight seal in case the primary elastomeric coating is damaged. The system is supplied in pre-compressed sticks ready to be easily installed.
Wabo® ElastoFlex
Continuous Membrane Sealing System

The Wabo® ElastoFlex bridge series joint system features a continuous gland of fabric reinforced EPDM rubber mechanically locked by modular steel reinforced EPDM anchor blocks. Ends of each anchor block tongue and grooved together to ensure a positive connection and prevent uplift or separation. The membrane gland is installed continuous curb to curb. The EFL series utilizes a seal configuration that folds upward via its three preformed hinges allowing easy expulsion of debris and gravel. The EFJ series utilizes a seal configuration that is pedestrian friendly.

FEATURES:
- Anchor blocks and seal membrane are produced from elastomeric materials
- Highly resistant to weather extremes and high impacts
- Molded surface grooves which allow for proper water drainage
- Low profile allows for sealing joints where there are blockout height restrictions
- Tongue and groove to ensure a position connection and prevent uplift

RECOMMENDED FOR:
- Sealing of joints in bridges, ramps, or other high load applications
- New construction and stage construction rehabilitation projects
- Vertical curb applications and slab-to-wall conditions

### Table: Joint Opening "A" and System Width "B"

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>EFL-400</td>
<td>1.000 in</td>
<td>25 mm</td>
<td>127 in</td>
<td>4.000 in</td>
<td>102 mm</td>
</tr>
<tr>
<td>EFJ-225</td>
<td>1.000 in</td>
<td>25 mm</td>
<td>57 in</td>
<td>1.300 in</td>
<td>32 mm</td>
</tr>
<tr>
<td>EFJ-400</td>
<td>1.500 in</td>
<td>38 mm</td>
<td>102 in</td>
<td>2.500 in</td>
<td>64 mm</td>
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<tr>
<td>EFJ-600</td>
<td>2.000 in</td>
<td>51 mm</td>
<td>152 in</td>
<td>4.000 in</td>
<td>102 mm</td>
</tr>
</tbody>
</table>

Consult your WBA Representative with your special design requirements.

For additional information see product’s sales drawing.
Wabo®Flex is a molded rubber cushion expansion joint designed to accommodate structure movements from 2 inches up to 13 inches. The Wabo®Flex system consists of molded rubber cushions which are steel reinforced and imbedded with corrosion-resistant aluminum wear plates. Tongue and grooves at the end of each rubber cushion prevent uplift or separation while ensuring a watertight connection.

**FEATURES:**
- Combines the strength of steel and the flexibility of rubber
- High strength aluminum plates are grooved for maximum friction
- Low profile allows for sealing joints with blockout height restriction
- The partial confinement of the rubber reduces deflection under traffic loading and prevents debris buildup

**RECOMMENDED FOR:**
- Low height joint sealing restrictions
- Bridge decks and ramps
- Expansion joint applications with maximum movement of 13 inches
- New construction or repair and maintenance of existing joints

<table>
<thead>
<tr>
<th>Model #</th>
<th>Molded Dimensions</th>
<th>Joint Opening &quot;A&quot;</th>
<th>System Width &quot;B&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>SR 2A</td>
<td>10.625</td>
<td>270</td>
<td>1.563</td>
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<tr>
<td>SR 2.5A</td>
<td>13.750</td>
<td>349</td>
<td>1.813</td>
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<tr>
<td>SR 4A</td>
<td>23.000</td>
<td>584</td>
<td>2.125</td>
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<tr>
<td>SR 6.5A</td>
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<td>3.000</td>
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<tr>
<td>SR 9</td>
<td>37.375</td>
<td>949</td>
<td>3.750</td>
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<tr>
<td>SR 13</td>
<td>55.000</td>
<td>1397</td>
<td>5.000</td>
</tr>
</tbody>
</table>

Consult your WBA Representative with your special design requirements for additional information see product sales drawing.
Wabo®TransFlex
Molded Rubber Segmental Expansion Joint System

Wabo®TransFlex is the original reinforced elastomeric molded rubber expansion joint system. All sections feature tongue and groove fittings for tight end-to-end mating across decks and at curbs and are steel reinforced. It can be installed in new decks, or in older structures on rehabilitation projects. All models adapt readily to skew angles. Properly installed, the Wabo®TransFlex system will accommodate anticipated thermal movements reject debris and create a level, smooth-riding, wear-resistant surface.

FEATURES:
- Tongue and grooves at the end of each rubber panel prevent uplift or separation while ensuring a watertight connection
- Low profile system height allows for sealing joints where there are blockout height restriction

RECOMMENDED FOR:
- Low height joint sealing restrictions
- Bridges, decks and ramps
- Expansion joint applications with maximum movement of 13 inches
- New construction or repair and maintenance of existing joints

<table>
<thead>
<tr>
<th>Model #</th>
<th>Molded Dimensions</th>
<th>Joint Opening ”A”</th>
<th>System Width “B”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width in</td>
<td>Height in</td>
<td>Min. in</td>
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<tr>
<td>200A</td>
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<td>276</td>
<td>1.563</td>
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<tr>
<td>250</td>
<td>14.000</td>
<td>356</td>
<td>1.813</td>
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<tr>
<td>400A</td>
<td>23.250</td>
<td>591</td>
<td>2.125</td>
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<tr>
<td>650</td>
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<tr>
<td>900</td>
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<tr>
<td>1300</td>
<td>47.500</td>
<td>1207</td>
<td>5.000</td>
</tr>
</tbody>
</table>

Consult your WBA Representative with your special design requirements for additional information see product sales drawing.
Wabo®SafetyFlex
Safety Cover for Expansion Joint Openings  (U.S. Patent #6,751,918)

Wabo®SafetyFlex is a hinged, rubber encapsulated, steel cover system that is ideal for pedestrian walkways. The design of the system reduces potential tripping hazards by providing a smooth, slip resistant transition over expansion joint openings. Independent metal plates integral to the rubber cover allows the system to flex in response to changes in vertical displacement between opposing slabs. In addition, the use of metal plates provides load carrying capability across the joint opening. The rubber cover also reduces the sound caused by pedestrian traffic as they travel across the expansion joint opening.

### Model #

<table>
<thead>
<tr>
<th>Joint Opening “A” System Width “B”</th>
<th>Model #</th>
</tr>
</thead>
<tbody>
<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>SFP-600</td>
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</tr>
<tr>
<td>SFP-1000</td>
<td>0.000</td>
</tr>
<tr>
<td>SFP-1200</td>
<td>0.000</td>
</tr>
<tr>
<td>SFP-1800</td>
<td>0.000</td>
</tr>
</tbody>
</table>

**FEATURES:**
- Metal plates flex independently and provide a load bearing cover
- Reduces tripping hazards
- Rubber encapsulated metal plates eliminates the loud noise associated with most metal cover plate systems
- Lap-joint connectors allow for easy transitions between panels
- Compensates for vertical offset

**RECOMMENDED FOR:**
- Pedestrian & bridge
- Bridge sidewalks & medians

for additional information see product sales drawing

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**Chamfer (Recommended)**

**Inverseal (not included)**

**Compression Seal (not included)**
Wabo®Crete II
Elastomeric Concrete

Wabo®Crete II is a two-component polyurethane expansion joint header with specialty aggregate, 100% solids material for use in exterior construction environments. Wabo®Crete II is a unique mixture which monolithically bonds the expansion joint to the deck, creating a waterproof system. Wabo®Crete II absorbs traffic impact loads and evenly disperses them into the deck, while allowing the system to flex with deck loads. It is resistant to ozone, UV, deicing chemicals, and abrasives. The addition of heat is not required to increase flow or cure the material. It will self level in the blockout.

FEATURES:
- Resistant to deicing chemicals and abrasives
- Does not require the addition of heat to increase flow or cure
- Ease of installation – easily mixed and typically cures in within 1 to 2 hours
- Self-leveling and ambient cure
- Absorbs impact loads and performs in various climate conditions

RECOMMENDED FOR:
- As an expansion joint header/nosing for various expansion joint systems
- Spall repair of existing joint headers/nosing applications
- Void filler

Wabo®Crete II, when properly installed, can accommodate a variety of different environmental and real world conditions. Wabo®Crete II has been specially formulated with the proper balance of liquid to aggregate ratio to create a product that combines the best in hardness, strength, flexibility, and durability. Watson Bowman Acme formulated the product to meet the demands of today’s expansion control applications and is proud to be the original producer of the product.
Wabo® ElastoPatch
Crack and Spall Repair Material

The Wabo® ElastoPatch is a unique modified elastomeric concrete material for the repair of random cracks and spalls in existing portland cement concrete pavement. Wabo® ElastoPatch is resistant to wear under repetitive loadings and chemical attack in harsh environments. The superior bonding capabilities to concrete minimizes edge spalling associated with high impact loads. Wabo® ElastoPatch is an ambient cured, flexible material forming a monolithic unit.

FEATURES:
- Life Cycle Cost - product outlasts cement based materials
- Fast curing ambient patch material allows for rapid installation
- Outstanding high load bearing and bond capabilities can accommodate heavy and repetitive impact loading

RECOMMENDED FOR:
- Airport runways, taxiways, and aprons
- Airfield pavement lighting
- Sealing of cracks on highways, bridges, and parking decks
- High impact and repetitive loading spall conditions
The Expansion Control Company.

Founded in 1950, Watson Bowman Acme (WBA) is the worldwide leader and recognized innovator in the development and manufacture of expansion control systems for the construction industry. WBA has taken great strides in achieving production efficiencies and environmental stewardship through its formal American Institute of Steel Construction, ISO 9001:2000 and RC 14001 certifications. These certifications enhance the company’s commitment and passion for excellence. WBA uses its expertise in the design and manufacture of quality expansion control systems to produce products that perform and last. Watson Bowman Acme is “The Expansion Control Company”.

Technical Expertise

Engineers and owners who are charged with the responsibility of searching out every possible avenue to extend the life of their structures turn to Watson Bowman Acme with their specific needs. More than 50 years of practical experience and knowledge in the Expansion Control industry allows WBA to develop solutions and make recommendations for the right product choice for your application.

Innovation

Recognized as the industry leader in the development of expansion control systems, WBA has developed and manufactured products and solutions for some of the world’s most unique and complex projects. Offering the broadest range of products and services in the construction industry, we are the only company servicing the Bridge and Highway, Architectural, Parking and Open Air Structures markets. We have a fully qualified team of professional engineers and designers backed by strong relationships with national testing labs and universities. Watson Bowman Acme has long been recognized for its innovation. We will continue to build on that reputation for years to come.

Custom Solutions

WBA provides more than just technical expertise, we supply solutions that make good sense. We offer a growing range of high performance Wabo® products and systems to provide long lasting solutions to difficult repair problems. We are fully resourced to deliver results and exceed expectations of our customers, a standard of service they should expect.

Quality

WBA is dedicated to providing the highest quality products and services to our customers with a commitment for continuous improvement. Increased quality in service and manufacturing will ensure positive results for your project. Our professional operations team employs the principles of lean manufacturing, and enterprise resource planning tools, all supported by our formal ISO 9001:2000, RC 14001 and AISC quality management systems.

www.WBACORP.com

We are continually improving the Watson Bowman Acme website, enhancing your ability to easily navigate through our products and services. WBA has evolved over the years, but one priority has remained the same: to provide you with the accurate information you need, when you need it.