# Wabo®CompressionSeal

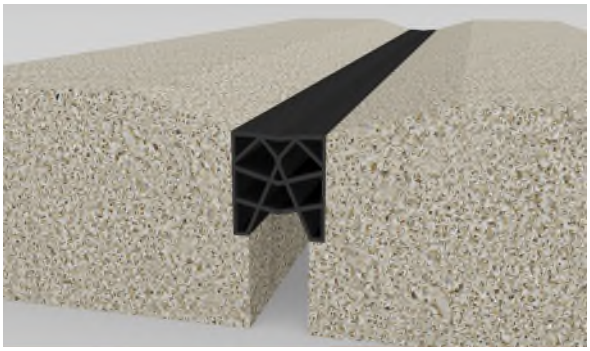
*Bridge Series*

| Features | Benefits |
|---|---|
| • Proven record | Cost effective solution with over 30 years history of success |
| • Ease of installation | WaboPrimaLub lubricant facilitates the installation of the system |
| • Versatile | Conforms to various structural configurations |
| • Unique design | Proven profile design provides uniform compression and prevents the seal from being forced out of the joint opening |

## DESCRIPTION:

Wabo®CompressionSeal 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®CompressionSeal 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®CompressionSeal 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.



## RECOMMENDED FOR:

- Sealing expansion joints on bridge and highway structures
- Heavy duty traffic and high load applications

## PACKAGING/COVERAGE:

- Depending on seal size, the longest available stock lengths or ordered lengths are provided
- Wabo®CompressionSeal seals are cut to length and palletized per limitations of required shipping methods.
- Wabo®PrimaLub – 1 gal container
- Wabo®PrimaLub lubricant coverage will depend on joint size, placement, waste, and experience.
- Wabo®PrimaLub consumption guidelines
    - 1.25” to 3.5” seal width = 200 ft per gallon
    - > 3.5” seal width = 100 ft per gallon

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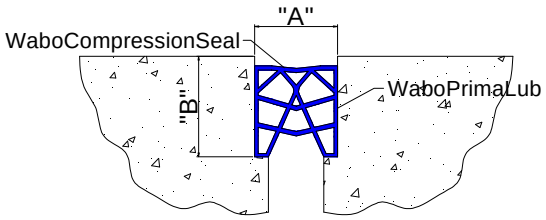
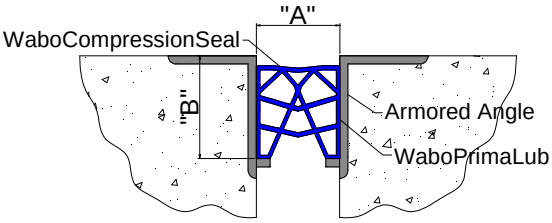
## TECHNICAL DATA:

### Design Information

The degree of slab movement and actual joint width should be known before the appropriate sized Wabo®CompressionSeal can be selected for a particular joint. Any variation in joint openings as well as creep and shrinkage should also be considered.



(WA Series Illustrated)



(Armored WA Series Illustrated)

### Movement Table

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

## PHYSICAL PROPERTIES:

Wabo®CompressionSeal seal material complies with ASTM D3542 and AASHTO M297

| 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. @ 212ºF(100ºC)<br>Tensile, max loss<br>Elongation, max loss<br>Change in Hardness | D 573 | <br>20%<br>20%<br>0 to 10 pts. |
| Oil Swell, 70 hrs. @212ºF(100ºC)<br>Weight Change, max | D 471 | <br>45% |
| Ozone Resistance<br>70 hrs. @104ºF(40ºC) | D 1149 | no cracks |
| Low Temperature Recovery<br>72 hrs 14°F, min<br>22 hrs -20°F, min<br>70 hrs 212°F, min | Section 7d | <br>88%<br>83%<br>85% |

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## INSTALLATION SUMMARY:

- The joint opening must be abrasive blasted to remove all latencies and contaminants which may cause bonding problems.
- Measure and cut to exact length needed for continuous joint, being careful not to pull or stretch the seal.
- Wear appropriate safety gloves when handling Wabo®PrimaLub. Apply a thin film of Wabo®PrimaLub lubricant immediately prior to the installation of the Wabo®CompressionSeal. WaboPrimaLub lubricant should be applied to both sides of the seal and along the joint interfaces.
- Compress seal and insert into joint opening. Clean the excess lubricant from the top surfaces.
- The seal should be installed below the finished surface and should never protrude above the joint edge. See the movement chart for proper groove depth.

## OPTIONS/EQUIPMENT:

- Seal installation tool (pogo stick) is recommended for installation. Contact WBA for seal installation tool.

## RELATED DOCUMENTS:

- Material Safety Data Sheets
- Wabo®CompressionSeal Specification
- Wabo®CompressionSeal Sales Drawings
- Wabo®CompressionSeal Installation Procedure

## 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 seal's movement range. Do NOT use on joints where movements exceed 3 inches.
- 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 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.





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