BUILDING TRUST

SYSTEM DATA SHEET

Wabo® StripSeal

Armored small movement expansion joint system

DESCRIPTION

Wabo® StripSeal expansion joint system consists of an elastomeric seal mechanically locked between two steel edge members providing a superior watertight sealing system.
Rugged design of Wabo® StripSeal system can easily accommodate the high loads of vehicular traffic while effectively sealing expansion joints in bridges and structures with movements up to 125 mm.

USES

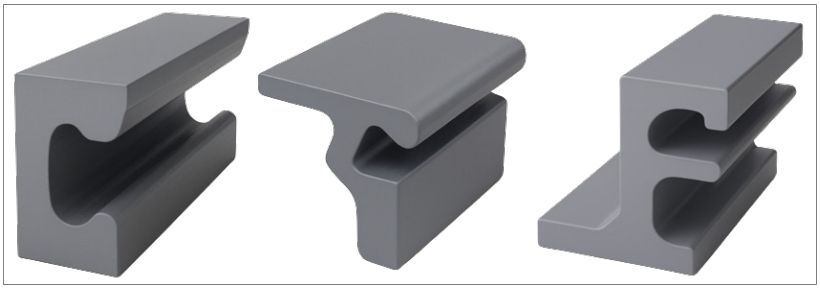
- Sealing of joints on bridges and parking decks
- Skewed joints
- High impact and repetitive loading conditions
- Expansion joint applications with maximum movement up to 125 mm
- New construction or repair and maintenance of existing joints

FEATURES

Versatility
Wabo® StripSeal that utilize steel edge members provide a basis for greater movement potential. The elastomeric sealing element allows least resistance to racking movements of skewed joints. A choice of steel edge members will suit any new construction or rehabilitation project.
Resilience
Wabo® StripSeal handles all types of joint movements and configurations. High impact and bridge deck deflections will not interfere with the operations of the system.
Watertightness
The continuous elastomeric sealing element offers additional leak proof protection by being bonded to the steel edge members and then mechanically locked into place.
Heavy duty
Wabo® StripSeal system can accommodate all types of joint movements and configurations under heavy and repetitive impact loadings.

SYSTEM INFORMATION

Systems



Type "D" | Type "M" | Type "F"

Wabo® StripSeal joint system incorporates the use of two standard configurations.

System structure

FIGURE 1: CAST IN PLACE
Steel edge members are cast into the deck

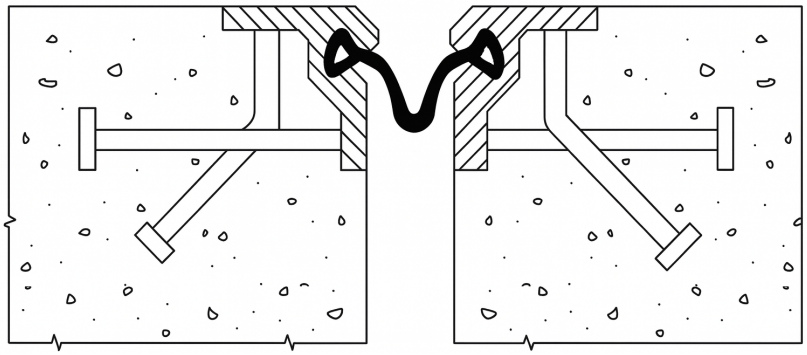


FIGURE 2: JOINT REPAIR CONDITION
Steel edge members are cast into elastomeric concrete.

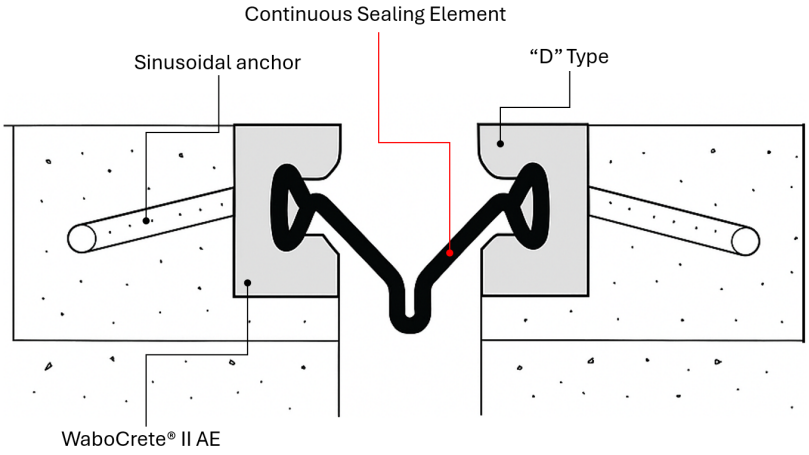
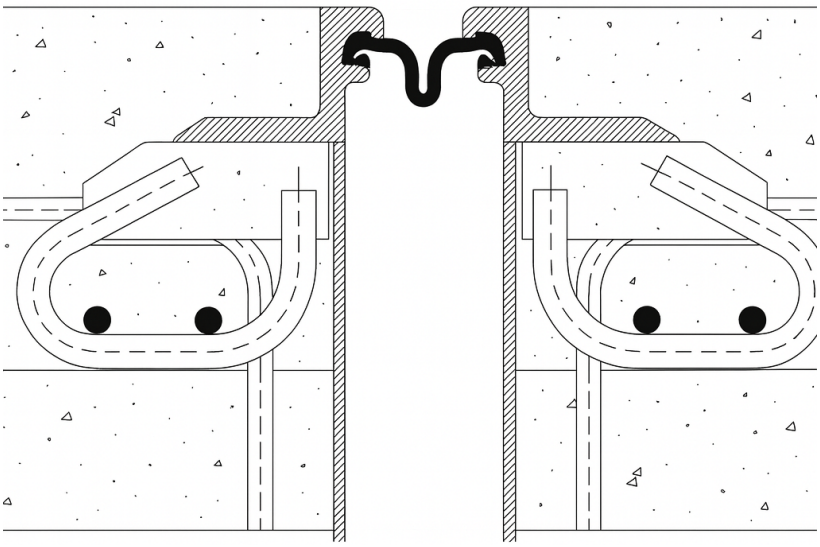


FIGURE 3: CAST IN PLACE
Steel edge members with anchor loop and plate (deep) are cast into the deck



Composition

Neoprene rubber or EPDM rubber
ASTM A588 weathering grade steel or Q345 High Strength structural grade steel.

SUSTAINABILITY INFORMATION

Packaging

Wabo® StripSeal steel edge members are manufactured and supplied in continuous lengths of up to 12 metres. For lengths exceeding 12 metres, the members will be suitably spliced to facilitate transportation.

Wabo® StripSeal elastomeric seals are supplied in continuous lengths, coiled on pallets for transportation. Where full-length seals are transported, the seals will be installed with joints as required.

Shelf Life

- **Neoprene rubber (polychloroprene) or EPDM rubber:** 5 years if stored in a cool, dry environment, protected from direct sunlight, UV radiation, ozone, and excessive humidity.
- **Steel (S235JR or S275JR EN10025, equivalent to ASTM A36):** Indefinite when stored under the recommended storage conditions and provided the material remains free from excessive corrosion, mechanical damage, or other deterioration that could affect its intended performance.

TECHNICAL INFORMATION

Movement capability

Type of Seal (mm)	Total Movement (mm)	Joint Width (Min / Max mm)	Min. Install Width (mm)
SE-300	80	0 / 80	38
SE-400	100	0 / 100	38
SE-500	125	0 / 125	51
EFE-400	100	13 / 113	64

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

- General Method Statement (GMS)
- Substrate preparation for Wabo® floor joints

IMPORTANT CONSIDERATIONS

- Certified welder to be utilized for field welding of sections.
- Store fabricated Wabo® StripSeal joint system along with Wabo® StripSeal elastomeric seal in an area that will not damage the materials.
- Wabo® StripSeal systems can be manufactured to accommodate a variety of field configurations along with multidirectional movements.
- Wabo® StripSeal has been engineered so that the elastomeric seal can be inserted either prior to or after securing the steel shapes to the superstructure.
- The elastomeric seal can be factory molded for horizontal changes and joint intersections.
- Sika does not recommends the use of Wabo® StripSeal on joints where movements exceed 125 mm.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

APPLICATION INSTRUCTIONS

APPLICATION

- If system is to be installed in sections, special care should be taken to the field weld details on the manufacturer's shop drawings.
- The Wabo® StripSeal joint system is lifted and lowered into final position. The steel edge members are suspended into the block out utilizing adjustable levelling devices.
- Before securing or casting joint system to structure, the setting joint opening dimension shall be adjusted the proper ambient temperature.
- Complete all bolted or welded connections to the superstructure. When casting the joint into the structure, proper compaction of concrete around the system is required.
- The elastomeric seals shall be installed in continuous lengths spanning the entire roadway width. Adhesive is brushed into the full perimeter on the steel edge member seal cavity and around the seal lug prior to actual seal installation.
- Contact Sika for seal installation tool details for application of Wabo® StripSeal elastomeric seal.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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