BUILDING TRUST

PRODUCT DATA SHEET

Wabo® Flex SR

Heavy-duty elastomeric expansion joint system

DESCRIPTION

Wabo® Flex SR comprises a monolithic moulded elastomeric section reinforced with integral structural steel angle plates and an embedded hard-wearing aluminum anti-skid plate.
Wabo® Flex SR is available in six types depending upon the movement required. The system is anchored to the structure by mechanical anchors.

USES

Wabo® Flex SR is an extremely durable heavy-duty expansion joint system. It is particularly suited for road bridge applications where movements up to 330 mm have to be accommodated.

FEATURES

- Accommodates large movements
- Long life under heavy traffic
- Skid resistant
- Smooth riding
- Maintenance free
- Suitable for various types of recess
- Continuous full-width tongue-and-grove joints between sections provide watertightness
- High-strength ribbed aluminum alloy extrusion inserts provide skid-resistance
- Aluminum extrusions are vulcanized to the elastomer and mechanically locked to prevent delamination and buckling
- Ribbed armored aluminum surface protects the elastomer from vehicle abrasion and edge load impact
- Steel angle plates are embedded in the elastomer to provide structural reinforcement
- Partial confinement of elastomer reduces deflection under traffic load
- Multiple movement grooves split the deck opening into smaller gaps for smooth transition
- Drainage channels provide rapid discharge of surface water
- Kerb details, skews and other directional change are totally welded and treated to ensure water-tightness

PRODUCT INFORMATION

Composition	Neoprene rubber (polychloroprene) Aluminum Alloy (6061-T6) Steel (ASTM A36)
Packaging	Wabo® Flex SR is supplied in standard sections length: SR2A, SR2.5A, SR4A, SR6.5A and SR9 - 1829 mm SR13 - 1219 mm

Shelf life

Neoprene rubber (polychloroprene): 24 months if stored in a cool, dry envir onment,protected from direct sunlight, UV radiation, ozone, and excessive humidity.
Steel (ASTM A36) and Aluminum Alloy (6061-T6): No defined shelf life when stored under suitable dry conditions and protected from corrosion and environmental deterioration.

Storage conditions

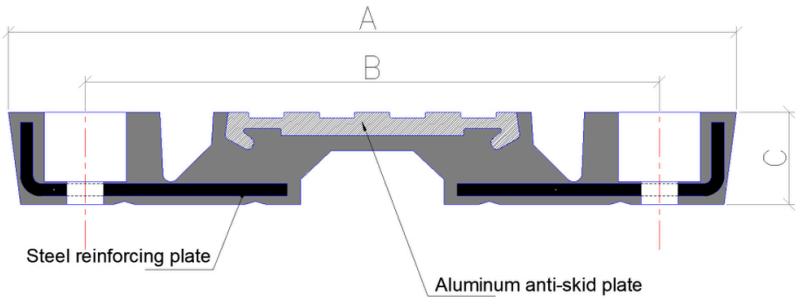
Store in a dry, clean and well-ventilated area, protected from prolonged exposure to moisture, condensation, aggressive chemicals and corrosive environments. Materials should be stored off the ground and protected against contamination and mechanical damage.

Dimensions

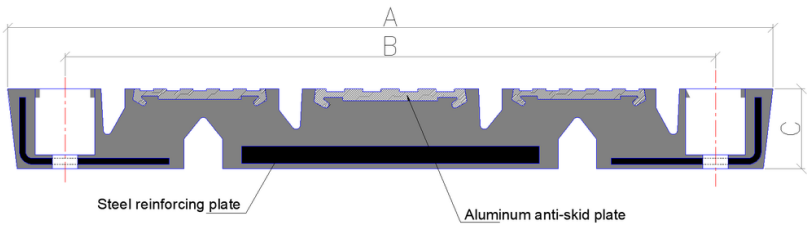
Wabo® Flex SR dimensions (mm)

Type	A (min. / max.)	B (min. / max.)	C
SR 2A	245 / 296	185 / 235	40
SR 2.5A	318 / 393	248 / 312	45
SR 4A	532 / 637	471 / 553	55
SR 6.5A	638 / 803	530 / 694	75
SR 9	785 / 1015	680 / 908	97
SR 13	1043 / 1373	915 / 1245	129

– Wabo® Flex SR SR2A – SR2.5A cross section:



– Wabo® Flex SR SR4A – SR13 cross section:



Length

Wabo® Flex SR anchor details (minimum dimensions)

Type	Length (mm)	Diameter (mm)
SR 2A	160	12
SR 2.5A	170	14
SR 4A	170	14
SR 6.5A	190	16
SR 9	240	20
SR 13	250	24

Width

SR 2A	270 mm
SR 2.5A	355 mm
SR 4A	584 mm
SR 6.5A	720 mm
SR 9	900 mm
SR 13	1208 mm

TECHNICAL INFORMATION

Shore A hardness	~55	(ASTM D2240)
Tensile strength	≥ 12.4 MPa	(ASTM D412)

Movement capability

Type	Joint Opening Minimum	Joint Opening Medium	Joint Opening Maximum	Total movement
SR 2A	21 mm	46 mm	72 mm	51 mm
SR 2.5A	28 mm	65 mm	103 mm	75 mm
SR 4A	42 mm	94 mm	147mm	105 mm
SR 6.5A	28 mm	110 mm	193 mm	165 mm
SR 9	30 mm	145 mm	260 mm	230 mm
SR 13	35 mm	200 mm	365 mm	330 mm

Retention of properties after heat ageing (ASTM D573)

Shore A hardness	Tensile Strength	Elongation
max. +15	max. -15 %	max. 40 %

Flexibility at low temperature	Low temperature brittleness: **Not brittle** Brittle point, at -40 °C for 3 min	(ASTM D746)
Elongation at break	≥ 350 %	(ASTM D412)

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

Wabo® Flex SR is a specialist expansion joint system and should only be installed by contractors / applicators that have been trained and certified by Sika®.

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

The installation of Wabo® Flex SR involves several key stages, including preparation of the recess, application of the specified bedding mortar, drilling and positioning of anchors, installation of the joint drainage system and secondary sheet membrane (where required), followed by sequential positioning and securing of the Wabo® Flex SR sections. The installation is completed by tightening the fixing bolts to the specified torque, sealing the bolt cavities with the recommended sealant, and applying WaboCrete® II AE to form the transition strip.
For specific advice contact Sika Technical Service.
Additional Requirements / Equipment:

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

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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