BUILDING TRUST

PRODUCT DATA SHEET

Wabo® Flex REJ

Moulded rubber segmental expansion joint system

DESCRIPTION

Wabo® Flex REJ is a moulded rubber cushion expansion joint system designed to accommodate structural movements ranging from 42 mm to 330 mm.
The Wabo® Flex REJ system consists of steel-reinforced, moulded rubber cushions. Multiple movement grooves divide the overall deck opening into smaller gaps, providing a smooth transition across the joint. Tongue-and-groove connections at the ends of adjacent rubber cushions help prevent uplift and separation while maintaining a watertight connection.

USES

- Suitable for applications where low-height joint sealing solutions are required
- Suitable for bridges, decks, and ramps.
- Suitable for expansion joints accommodating movements of up to 330 mm
- Suitable for new construction, as well as the repair and maintenance of existing expansion joints

FEATURES

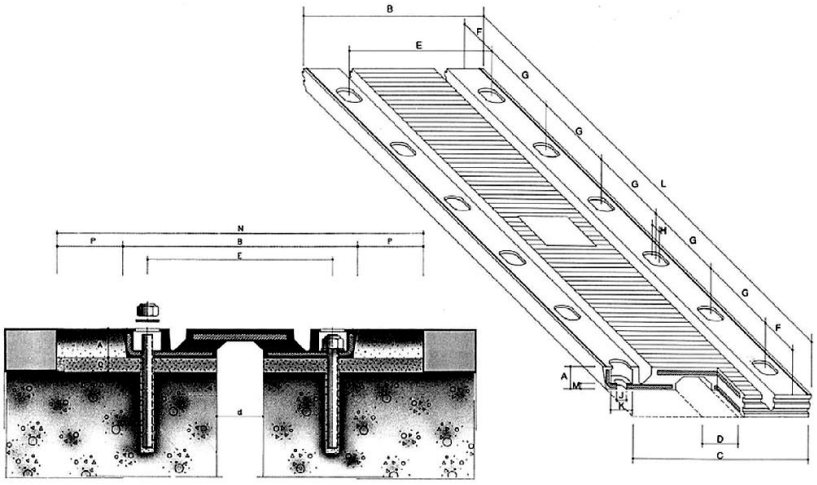
- **Smooth ride:** The low-profile design and minimal exposed joint surface reduce debris accumulation and provide a smooth ride. Partial confinement of the elastomer cushions limits deflection under traffic loads.
- **Skid resistant:** The ribbed surface of the rubber elastomer cushions provides skid resistance.
- **Low stress:** The large shear area minimizes the transfer of undesirable forces to the supporting structure.
- **Maintenance free:** Self-cleaning drainage channels and durable components minimize maintenance requirements.
- **Unitized:** Pre-moulded standard sections facilitate sectional repairs and help minimize lane closure durations.

PRODUCT INFORMATION

Composition	Neoprene rubber (polychloroprene) Steel (ASTM A36)	
Packaging	Wabo® Flex REJ-42	2000 mm sections
	From Wabo® Flex REJ-52 to REJ-230	1828 mm sections
	Wabo® Flex REJ-330	1219 mm sections
Shelf life	**Neoprene rubber (polychloroprene):** 24 months if stored in a cool, dry environment, protected from direct sunlight, UV radiation, ozone, and excessive humidity **Steel (ASTM A36):** No defined shelf life when stored under suitable dry conditions and protected from corrosion and environmental deterioration	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +15 °C and +25 °C.	

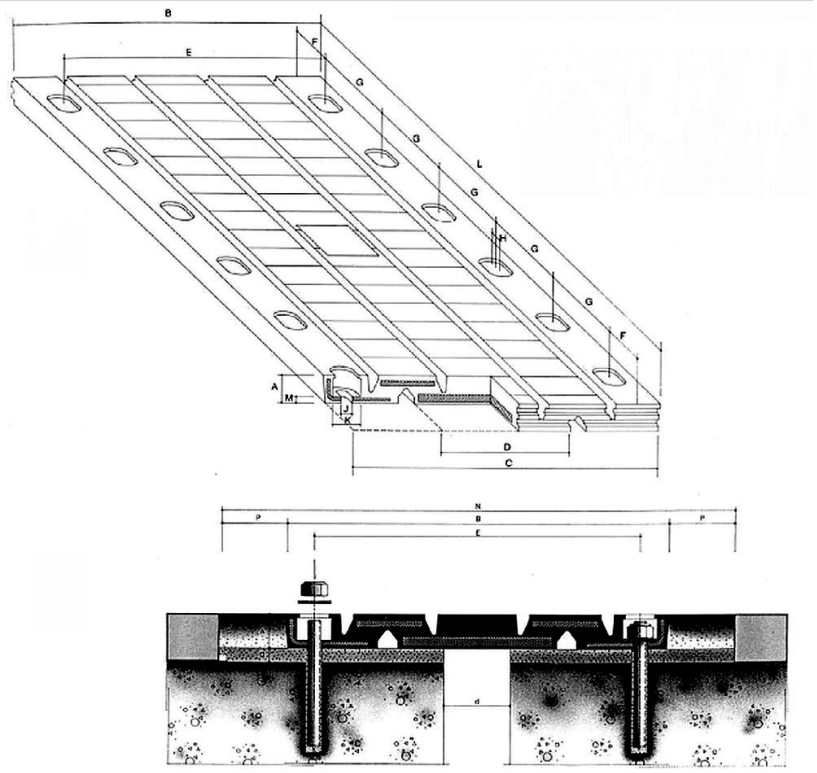
Dimensions

Wabo® Flex REJ-42 to REJ-80



Model	Total Movement	Dimensions (mm)															
		A	B	C	D	d @ Average temperature	E	F	G	H	J	K	L	M	N	P	Q
REJ-42	47 mm	35	240	237	35	35	188	165	334	34	18	36	2000	8	380	70	Var.
REJ-52	57 mm	40	270	262	50	46	210	152	305	34	18	40	1828	8	430	80	Var.
REJ-70	75 mm	45	355	346	70	62	280	152	305	34	18	40	1828	11	535	90	Var.
REJ-80	85 mm	54	430	424	86	74	340	152	305	40	22	57	1828	11	630	100	Var.

Wabo® Flex REJ-100 to REJ-330



Model	Total Movement	Dimensions (mm)															
		A	B	C	D	d @ Average temperature	E	F	G	H	J	K	L	M	N	P	Q
REJ-100	105 mm	55	580	572	240	94	494	152	305	40	20	50	1828	11	780	100	Var.
REJ-120	125 mm	60	620	604	270	98	524	152	305	40	20	52	1828	11	820	100	Var.
REJ-140	145 mm	65	650	632	300	105	576	152	305	40	22	54	1828	12	850	100	Var.
REJ-160	165 mm	75	720	702	316	110	612	152	305	40	24	56	1828	13	920	100	Var.
REJ-180	185 mm	85	800	785	336	125	698	152	305	40	26	58	1828	14	1000	100	Var.
REJ-200	205 mm	90	850	830	350	134	744	152	305	40	27	59	1828	15	1050	110	Var.
REJ-230	235 mm	97	900	887	376	145	794	152	305	40	28	60	1828	16	1150	125	Var.
REJ-330	330 mm	129	1208	1194	520	200	1080	152	305	40	32	70	1219	16	1508	150	Var.

TECHNICAL INFORMATION

Shore A hardness	~65	(ASTM D2240)
Elastic recovery	~65 % (100 % - Compression Set) **Compression Set:** ~35 % (22 hours at 158 °F)	(ASTM D395, Method B)
Swelling	Oil Swell < 10 %	(ASTM D471)
Elongation at break	~350 %	(ASTM D412)
Resistance to ozone	No cracks (70 hrs at 100 °F / 38 °C 20% strain, 100 pphm)	(ASTM D1149, Method B)

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 REJ gland and anchor block components should be stored free from contamination prior to installation, as contamination may impair the performance of contact products such as WaboCrete® II, WaboCrete® II AE, Sikaflex® PG 470, SikaFlow®-400 and SikaFlow®-648.
- The steel angles embedded in the moulded rubber panels are formed ASTM A36 steel or equivalent.

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

EQUIPMENT

- Torque wrench for tightening anchors to the specified torque
- Pry bar for moving and positioning the panel
- Hydraulic ram assembly for adjusting the system to accommodate changes in ambient temperature

SUBSTRATE PREPARATION

Blockout base must be parallel with plane of riding surface. Sandblast blockout surfaces prior to installation.

APPLICATION

- Prepare blockouts to the specified dimensions and grades. Ensure that all anchors are installed perpendicular to the bottom surface of the blockout.
- Install the Wabo® Flex REJ units, starting at the curb.
- Continue installation until reaching the field-cut section. Apply sealant to the cut ends before final placement.
- Retighten all anchors to the specified torque approximately one hour after the initial tightening.
- Fill the bolt cavities with sealant and seal any voids between adjacent Wabo® Flex REJ sections and the vertical face.

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.

Sika Gulf B.S.C. (c)
Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC
Sika UAE LLC (Branch)
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited
Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 9200 22167
Email: info@sa.sika.com
Web: gcc.sika.com

Sika MB LLC
Oman
Tel. +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com

ISO 9001, 14001, 45001 – SGS:
- Sika UAE LLC
- Sika International Chemicals LLC
- Sika Gulf B.S.C. ©
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – URS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.