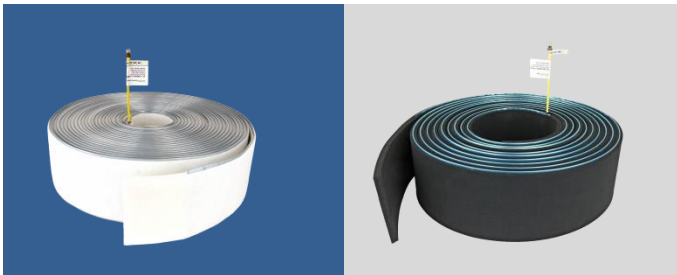


General Information

Reusable p-sealing for movement joints, surface protection etc.

Economical, quick, long-lasting seals for expansion and movement joints with compressed-air filled sealing cushions



General

Wolf GmbH offers a wide range of products in the area of joint-sealing technology, consisting of reusable p-joint-sealing cushions modified as necessary with additional components to prevent the propagation of fire and smoke, diverse surface protection foils, sealing compounds and more.

The basic element in this type of joint-sealing technology is a sealing cushion made up of a five-layered aluminium and plastic laminate, inflated with compressed air via one or two welded-on, plastic-coated metal tyre valves. The sealing cushions are completely coated on both sides with sealing tape (in the form of swelling material or cellular rubber).

Reusable p-joint-sealing technology fulfils following extremely high requirements:

Fibre Optics Ct GmbH testing principles PG-FMPB 1-2 for sealing movement joints DIN 18195-8

Building requirements as laid down in VO 60/06

Principles of planning and installation for sealing against fire, the passage of water or impact by falling stones, VO 60.01.

Provided the manufacturer's instructions regarding storage and installation are strictly adhered to, p-joint-sealing technology has the following advantages:

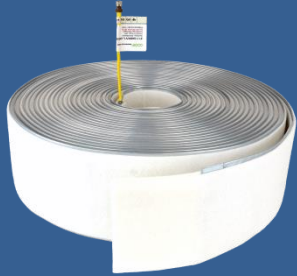

- Quick, simple removal
(the cushion does not adhere to surrounding components)
- The joint-sealing cushions are reusable.
(The air in the joint-sealing cushions can be topped up or the cushion can be removed in the course of routine inspections or repair work.)
- Due to the closed compressed-air system, the system adapts durably and optimally to joint movement and joint width (for example from summer to winter, or where there is fluctuation in road traffic).
- After inflation, the joint-sealing element is ready for operation immediately.
- The cellular rubber version can be installed in damp or wet weather conditions, or in standing water.
- The working area remains clean.
- No injection drilling is required.
This means that chipping damage to the surface of the joint cavity is avoided.
- Joint-sealing cushions can be supplied in a standard or modified form, depending on the intended application:
 - Type L (cushion width 135 mm) for joint widths up to 6 cm
Type S (cushion width 285 mm) for joint widths up to 13 cm
 - Joint-sealing cushions for ring-shaped spaces
 - Joint-sealing cushions for expansion and movement joints in bridges, tunnels and buildings.
 - Joint-sealing cushions for bridge supports, supporting structures or slatted structures
 - Joint-sealing cushions with 2 valves, used in conjunction with a pressure equalising system and/or a pressure-monitoring alarm system (currently in development, see below)
 - Fire-resistant sealing cushions for expansion and movement joints in bridges, tunnels and buildings.
 - Fire-resistant sealing cushions for bridge supports, supporting structures or slatted structures
 - Sealing cushion plus injection microtube for additional spray-sealing or gelling of hairline cracks

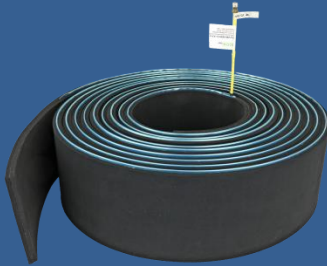
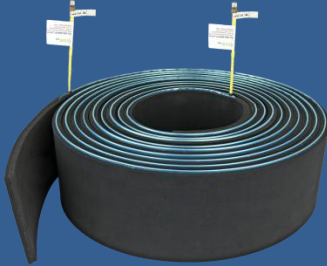
Currently in development:

- **System for monitoring reusable p-seals for movement joints:** Automatic equalising and control system for regulating sealing-cushion filling pressure. Its aim is to prevent component damage due to an increase in transverse pressure caused as a result of seasonal (summer-winter) joint movement or geological activity. We are also currently working on an alarm system for inflation pressure
- **Coating of swelling polymer tape:** This additional coating on the sealing cushions will seal chips in the concrete of the joint-cavity surface against water entry.

Overview of sealing cushions for...

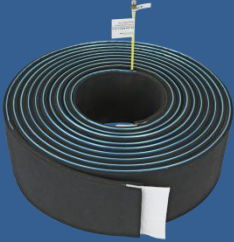
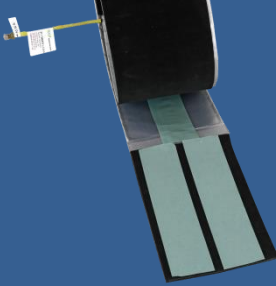
Expansion and movement joints in bridges, tunnels and buildings

General:	<ul style="list-style-type: none"> Prevents the passage of water, provides acoustic insulation Reusable (can be filled 4 times) Type L for joint widths of 2 to 6 cm Type S for joint widths of 3 to 13 cm 	
Art. No.	62.1 QADK/V	62.2 QADK/VV
		
Coating/design:	Swelling material, 4.2 mm thick (480 g/cm ²)	Swelling material, 4.2 mm thick (480 g/cm ²) 2 valves, for use with a pressure equalising system
Properties	Installation not possible in standing or flowing water! Tight immediately on contact with water	Installation not possible in standing or flowing water! Tight immediately on contact with water

Art. No.	64.1 ZK 3-ADK/V	64.5 ZK 3-ADK/VV
	64.2 ZK 6-ADK/V	64.6 ZK 6-ADK/VV
	64.3 ZK10-ADK/V	64.7 ZK10-ADK/VV
		
Coating/design:	Cellular rubber, 3 mm thick (Art. No. 64.1) Cellular rubber, 6 mm thick (Art. No. 64.2) Cellular rubber, 10 mm thick (Art. No. 64.3)	Cellular rubber, 3 mm thick (Art. No. 64.5) Cellular rubber, 6 mm thick (Art. No. 64.6) Cellular rubber, 10 mm thick (Art. No. 64.7) 2 valves, for use with a pressure equalising system
Properties	Suitable for Installation in standing or flowing water!	Suitable for Installation in standing or flowing water!

Overview of sealing cushion types

Sealing cushions for bridge supports, supporting structures or slatted structures

General:	<ul style="list-style-type: none"> • Sealing cushions LLA SSA, consisting of: 2 sealing cushions (LA SA) for gluing together on-site • Prevent the passage of water, • Reusable (can be filled 4 times) • Type L for joint widths of 2 to 6 cm Type S for joint widths of 3 to 13 cm 			
Art. No.	63.11 QADK/V LA / SA Cushion 1		62.12 QADK/V LA/ SA Cushion 2	
Coating/ Design:				
Properties	Installation not possible in standing or flowing water! Tight immediately on contact with water		Installation not possible in standing or flowing water! Tight immediately on contact with water	
Art. No.	65.11 ZK 6-ADK/V LA/ SA 65.21 ZK10-ADK/V LA/SA Cushion 1		65.12 ZK 6-ADK/V LA/ SA 65.22 ZK10-ADK/V LA/SA Cushion 2	
Coating/ Design:				
Properties	Suitable for Installation in standing or flowing water.		Suitable for Installation in standing or flowing water.	

Fire-resistant sealing cushions

General:

- Sealing cushions for sealing expansion and movement joints in bridges, tunnels and buildings (Art. No. 62.x | 64.x) o bridge supports (Art. No. 63.x | 65.x) are available in a modified form, with a swelling-material positioning aid for on-site attachment of fire-resistant tape F60 or F90 (accessory).
- **The fire-resistant tape prevents the propagation of smoke and fire.** In the event of a fire, a foam is formed which has heat-insulating properties. It fills joints, cracks and any other apertures and prevents the transmission of heat.

Fire-resistant tape
(accessory, Art. No. 66.10)



Approved by the:
Institute for Construction
Technology, Berlin
No. Z-19, 11-1713

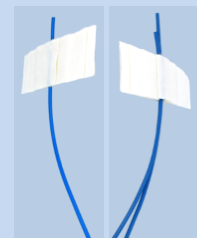
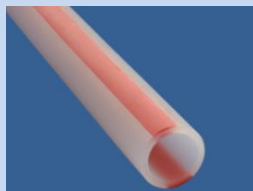


Additional spray sealing or gelling of haircracks

General:

- This is needed for joint cavities which cannot be completely sealed by a sealing cushion alone, due to the joint edges being cracked or covered over with concrete.
- Materials suitable for sealing such cracks can be injected using a microtube specially perforated for this purpose. The microtube is attached to the sealing cushion on-site, by means of hook and loop tape.
- An injection insert is available to introduce injection material into the joint cavity and can also function as a fill-level indicator for the injection material.
- The blocking plug serves as a means of controlling the filling procedure during injection (filling blocker)

Components



Art. No.

75.3 FIJ-MR-..
Microtube

75.4 HRPB
Hook and loop tape

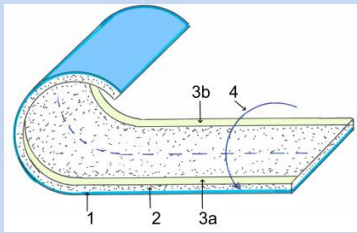
75.5 1KS-QADK/V
Blocking plug

75.6 FIJF-
Injection insert

Surface protection (films)

Joint-sealing against railway ballast stones

Film to protect movement joints

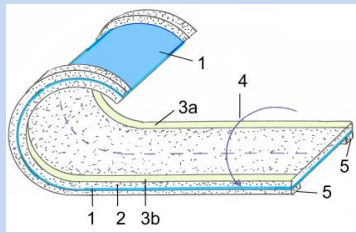


starting at the **lower** joint edge

77.1 SSVF-TQV-U

Joint-sealing against railway ballast stones

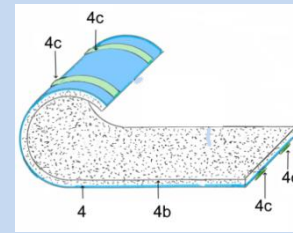
Film to protect movement joints



starting at the **upper** joint edge

77.2 SSVF-TQV-O

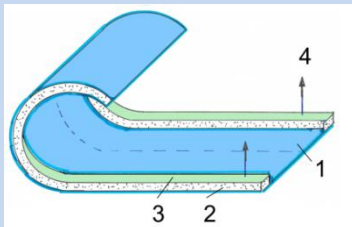
Protective tape for supports / abutments in bridges and tunnels



For on-site attachment to the joint-sealing cushion. Installation ...

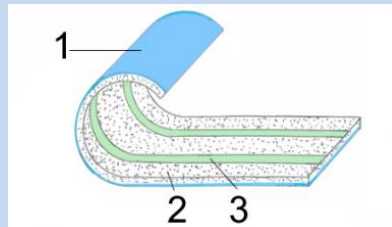
77.3 VF-TQV-A

Water drainage channel for expansion and movement joints



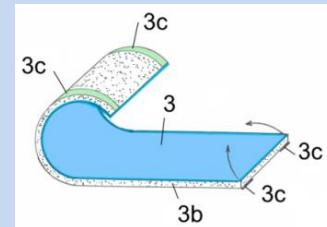
79.1 VF-QV-DBKK-WR

Water-blocking film for movement joints



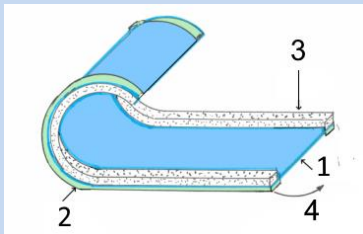
79.2 VF-TQV-BSK

Ballast stone protection and waterproofing for movement joints



79.3 VF-TQV-SSWR

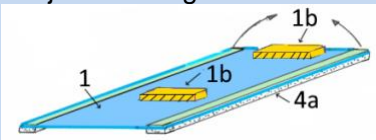
Sealing cushion as a water drainage channel



79.4 VF-QV-DBK-AKWR

Water drip edge

Can be installed above or below the joint-sealing cushion



79.5 VF-QV-DBK-WTRAK

Supplier

Your local partner

National sales



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