

## PRODUCT DATA SHEET

# Sika Waterbar® KFB 631 K-PE

Polyethylene based capping joint waterbar with high chemical resistance for use as a clamped waterbar

### DESCRIPTION

Sika Waterbar KFB 631 K-PE is a polyethylene (PE) based capping joint waterbar, even on one side, for the use as a clamping waterbar for the flexible sealing connection of existing structures with high chemical exposure.

### USES

Flexible sealing connection between existing and new structures with high chemical exposure.

- Industrial plants
- Production facilities
- Deposits

#### Principles for use:

- Applicable rules and regulations for the use of sealing products for sealing against water polluting substances must be observed
- Application based on the planning and processing principles of DIN 18197

- Handling, installation and welding only by trained personnel

### CHARACTERISTICS / ADVANTAGES

- Tough mechanical resistant

The PE material used is comparable to that of the Sika waterbar series WESTEC (compare separate product data sheet) in term of it's properties and behavior when it comes into contact with a large number of chemical compounds. In any case, however, specific individual tests are required.

- High chemical resistance
- Weldable

### APPROVALS / CERTIFICATES

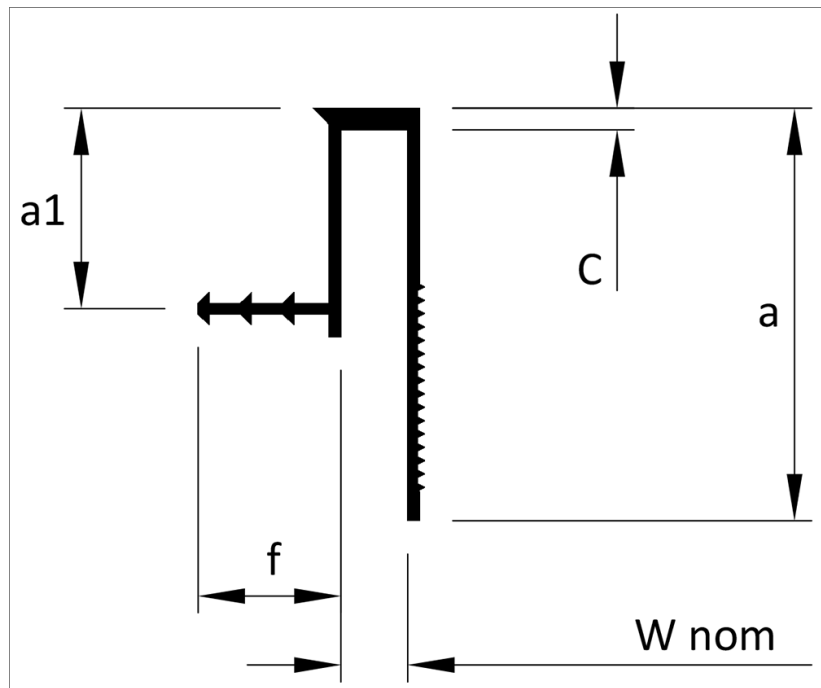
When using the Sika Waterbar KFB 631 K-PE in connection with substances hazardous to water, an individual test of the chemical resistance and approval in each individual case is required.

### PRODUCT INFORMATION

<b>Composition</b>	Polyethylene (PE)	
<b>Packaging</b>	3m bars	
<b>Appearance / Colour</b>	Black	
<b>Shelf life</b>	The product does not expire if stored correctly.	
<b>Storage conditions</b>	Protect the waterbars from direct sunlight and contamination and store in a dry place. Storage should be on the pallets and in the packaging as supplied, these pallets should not be stacked and must be kept away from traffic and any other potential causes of damage to the waterbars	
<b>Shore A hardness</b>	94 Shore A	
<b>Tensile strength</b>	≥ 22,7 N/mm <sup>2</sup>	DIN EN ISO 527-3
<b>Elongation</b>	≥ 644 %	DIN EN ISO 527-3

# SYSTEM INFORMATION

## System structure



Total height a (mm)	Joint width wnom (mm)	Thickness c (mm)	Width of sealing part N / f (mm)	Water pressure (bar)	Resulting movement Vr (mm)
124	20	6,5	2 / 40	0,05	3

## 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.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

To select an appropriate protective equipment under [www.sika.de](http://www.sika.de) our info datasheets are available: "General information on OSH" (Code 7510) and "General information on the wearing of protective gloves" (Code 7511).

## APPLICATION INSTRUCTIONS

### APPLICATION METHOD / TOOLS

#### General:

Connections of the Sika Waterbar 631 K-PE on the construction site are to be made as butt joints by thermal welding using Sika welding equipment. The construction site joints may only be carried out by personal trained and certified by Sika Deutschland GmbH. The Sika welding instructions for Sika Waterbars PE must be considered.

#### Prefabricated formpieces:

- Standard formpieces with leg length 0,50 m
- Additional special formpieces can be prefabricated on request

#### Documentation:

- System detail drawings at different joint / waterbar sizes

### Handling:

As instructed in DIN 18197:

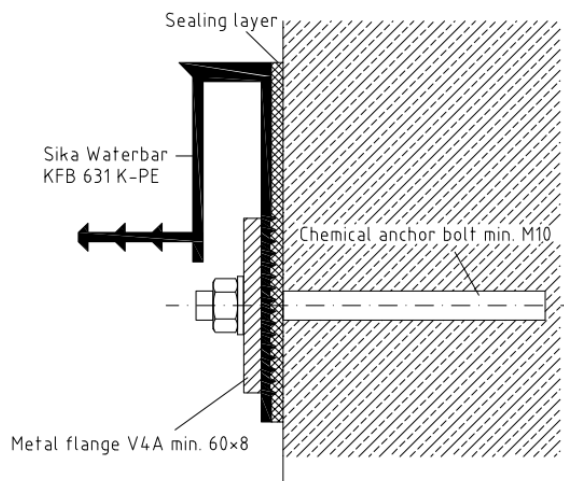
- Handle with care on site
- Install only at waterbar material temperatures  $\geq 0^{\circ}\text{C}$
- Protect until fully cast in
- Protect the free waterbar ends
- Clean the waterbar before casting in

### Installation:

System components for the installation of Sika Waterbar KFB 631 K-PE:

- Sika Waterbar KFB 631 K-PE
- Sealing layer for installation with trapped dimensions:  
Sikafloor-701 primer, sprinkled with quartz sand 0.4 - 0.7 mm  
Bedding layer made of Sikafloor-390 N plus 2.5 - 4% adjusting agent
- Sealing layer for installation with dimensions that are not captured:  
Polysulphide tape Sika Tank FB-25 black, width 60 mm
- Metal flange, 60 x 8 mm, material quality V2A, perforated, hole diameter = 14 mm, hole spacing = 150 mm
- Anchor bolt M10, material quality V4A, with nut, washer and chemical anchor

The application joints may only be carried out by personal trained and certified by Sika Deutschland GmbH.



### Joining on site:

The Sika Waterbars KFB 631 K-PE are only to be joined together by the stated welding procedure, in which the waterbar joint sides are first melted and then fused together in the plastic state.

The production of joints in the waterbars themselves on site may only be carried out by certified trained

technicians (i.e. certified following Sika Technical Services Training).

## 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 the 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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### **PRODUCT DATA SHEET**

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