

BUILDING TRUST

PRODUCT DATA SHEET

Sika® Waterbars Tricomer BV Type

Waterstops for joint sealing in watertight concrete construction according to DIN 18541 and DIN 18541-2

PRODUCT	Sika Tricomer BV Waterbars are highly flexible waterstops made from PVC/NBR				
DESCRIPTION	copolymer for sealing expansion and construction joints in watertight concrete structures.				
	They are available in a range of different types, shapes and sizes to suit different structures and applications.				
DESIGNATION	Sika® Waterbars - Tricomer BV Type [DIN 18541]				
CHARACTERISTICS /	 High tensile strength and elongation 				
ADVANTAGES:	 Permanent flexibility and high resilience 				
	Suitable for medium water pressures and stress				
	 Resistant to all natural mediums aggressive to concrete 				
	Bitumen resistant				
	 Resistant to a broad spectrum of chemical agents 				
	(testing necessary for any additional specific situations)				
	Robust sections for handling on site				
	Weldable				
PRINCIPLES FOR USE	 Design and installation principles according to DIN 18197 				
	Jointing system in accordance with DIN 18197 and DIN 18541				
USES	Joint sealing in concrete structures				
	 Expansion and construction joint sealing in insitu concrete 				
	 For connecting to existing structures use Tricomer flanging profiles in 				
	accordance with DIN 18541-2 (see separate Product Data Sheet)				
	Typical Structures:				
	- Residential building basements				
	- Commercial building basements, underground car parks				
	- Water treatment plants				
	- Dams (using the special profiles with injection hoses)				
STANDARDS /	- DIN 18197				
DIRECTIVES	- DIN 18541-1-2				
	- WU- Directive DAfStb.				
	- Welding Instructions				
	- Welding equipment SG 320 L instruction manual				
	- Method Statements				

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	- Manufacturer's test certificate, other te	ets and approvals as required			
TEST CERTIFICATE /					
APPROVALS:	 Certificate of Conformity DIN 18541, parts 1 and 2 External monitoring by MPA NRW 				
	- Standard external monitoring inspection	certificates			
	- Test certificates on resistance to sewage				
	wastewater	,,,,			
PRODUCT DATA					
MATERIALS	Tricomer = thermoplastic copolymer base	d on PVC-P with NBR,			
	BV = bitumen resistant				
COLOUR	- Black: Internal / External Waterstops				
	- Grey: Exposed / Finishing Waterstop sur	faces FA			
PACKAGING	- Standard rolls 20 or 25 m dependent on	profile, on Euro or disposable pallets			
	- Factory produced waterstopping systems in coils, on Euro or disposable pal				
	lets dependent on size				
STORAGE	 To be stored on the pallets as supplied 	on a flat base			
	 For long-term storage ≥ 6 months in er 	nclosed areas:			
	The storage area should be covered, co	ool, dry, free from dust and moderately			
	ventilated. The Tricomer waterstops must be protected from heat sources and				
	strong artificial lights with a high UV content.				
	 Short-term storage > 6 weeks and < 6 months in enclosed areas on construc- 				
	tion sites, outdoors:				
	 As for long-term storage i.e 				
	 In dry storage protected by suitable c 	overs from direct sunlight, snow and			
	ice or any other form of contaminatio	n			
	- Store separate from other potentially harmful materials, plant and equip-				
	ment such as structural steel, reinforcement or fuels etc.				
	- Store away from traffic and site roads in a dry are				
	Short-term storage ≤ 6 weeks on construction sites, outdoors:				
	- Protected from contamination or damage				
	- Protected by suitable covers from str	ong sunlight and snow or ice			
MECHANICAL					
PROPERTIES					
PROPERTIES					
SHORE-A HARDNESS	67 ± 5				
TENSILE STRENGTH	≥ 10 MPa DIN EN IS				
ELONGATION	≥ 350 %	DIN EN ISO 527-2			
TEAR PROPAGATION	≥ 12 N/mm DIN ISO34				
RESISTANCE					
REACTION TO COLD	> 200 %	DIN EN ICO E37 3			
ELONGATION AT -20°C	≥ 200 %	DIN EN ISO 527-2			

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Sika Fugenband Tricomer BV Gültig ab: 29.09.2015 Kennziffer: E 4002



REACTION AFTER A) STORAGE IN SATURATED		DIN 52509
LIMEWASH		DIN 53508 DIN EN ISO 846
B) HEAT AGEING		DIN EN ISO 4492-2
C) IMPACT OF MICROORGA		DIN LN 130 4832-2
NISMS		
D) WEATHERING		
ALLOWABLE AVERAGE		
VALUECHANGE ^A)		
,	≤ 20 %	DIN EN ISO 527-2
TENSILE STRENGTH ELONGATION	≤ 20 %	DIN EN ISO 527-2
ELASTIC MODULUS	≤ 50 %	DIN EN ISO 527-1
WELDABILITY		
(DIVISION OF THE TENSILE	>0.6	DIN 18541-2
STRENGTH WITH WELDED	≥ 0,6	DIN 16541-2
SEAMS BY THE TENSILE		
STRENGTH WITHOUT SEAMS)		
REACTION IN FIRE		DIN EN ISO 11925-2
EN 13501-1	Class E	DIN EN 13501-1
REACTION AFTER STORAGE		DIN 18541-2
IN BITUMEN		DIN EN ISO 291
ALLOWABLE AVERAGE VALUE		
CHANGE ^A)		
TENSILE STRENGTH	< 20 %	DIN EN ISO 527-2
ELONGATION	< 20 %	DIN EN ISO 527-2
ELASTIC MODULUS	< 50 %	DIN EN ISO 527-1
A) RELATIVE TO		
INITIAL VALUE		

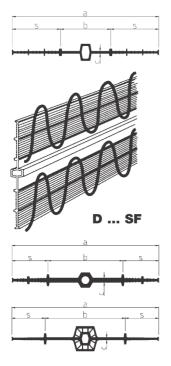
EXPANSION JOINTWATERSTOP FORMS

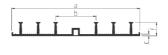
The limits of water pressure and stress given in the tables below apply to standard uses without specific additional testing. Different values may be used when precise information on all of the relevant stresses and structural requirements is available.

Produkt datenblatt



EXPANSION JOINT WATER-STOPS FORMS





DAO FOR JOINT WIDTH

 $W_{NOM} \le 10 CM$



	I	1	ı	1	1	1	1	1		
Туре	Waterstop Typ Tricomer BV	Total width	Width of expansion part	Thickness of expansi- on part	Width of sealing parts	Roll length	Water pressure	Resulting movement		
		а	b	С	S		р	V _r		
		[mm]	[mm]	[mm]	[mm]	[m]	[bar]	[mm]		
	D 240 *	240	85	4,5	78	25	0 / 0,3	20 / 10		
	D 320 *	320	110	5,5	105	25	0 / 1,0	25 / 15		
	D 500	500	155	6,5	173	25	0 / 1,2	30 / 15		
	D 250/6 * 2	250	120	6	65	25	0 / 0,36	20 / 10		
	D 320/6 *	320	170	6	75	25	0 / 1,1	25 / 15		
	D 250/9	250	120	9	65	25	0 / 0,45	20 / 15		
	D 320/9	320	120	9	100	25	0 / 1,5	25 / 15		
internal	D 240 SF **	240	85	4,5	78	25	0 / 0,1	20 / 15		
inte	D 320 SF **	320	100	5	105	25	0 / 0,3	25 / 15		
	D 260 TS	260	125	7/9	68	25				
	D 350 TS	345	175	9/11	85	25	¹)			
	D 400 TS	400	195	10/11	103	25				
	D 320 HS	320	170	5,5	75	25	0 / 0,1	25 / 15		
	Form D 320 HS with central hose sheathing if for compression joints with shear stress or july wood > 30 mm						_	-		
				And	choring ri	bs				
				N [1] x f [mr	n]				
	DA 240	240	90	4,5	4 x 20	25	0 1)	25		
	DA 240/2 *	240	90	4,5	4 x 25	25	0 / 0,2	25 / 20		
	DA 240/3 *	240	104	5	4 x 35	20	0 / 0,2	25 / 20		
rnal	DA 320 **	330	104	4,5	6 x 20	25	0 1)	27		
external	DA 320/2 *	330	104	4,5	6 x 25	25	0 / 0,3	27 / 20		
	DA 320/3 *	330	104	5	6 x 35	20	0 / 0,7	30 / 20		
	DA 500 **	500	124	4,5	8 x 20	25	0	35		
	DA 500/2	500	124	4,5	8 x 25	25	0 / 0,3	35 / 20		
	DA 500/3	500	124	5	8 x 35	20	0 / 1,0	35 / 20		
	DAO 500/25	500	250	8	6 x 25	25	0,1 1)	30		

^{*} Standard stock product ** Waterstop to DIN 18541-2

¹) Special project-related data

v_r Resultant strain = $(vx^2 + vy^2 + vz^2)$ ½

No. of anchoring ribs with DA and FA

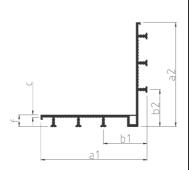
Height of profile

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A = ANCHORING RIBS EX-TERNAL W = ANCHORING RIBS RE-CIPROCAL

Туре	Waterstopf Typ Tricomer BV	Total width	Width of expansion part	Thickness of expansion sion part	Width of sealing parts	Roll length	Water pressure	Resulting movement
		a1/a2	b1/b2	С	Nxf		р	V _r
		[mm]	[mm]	[mm]	[1]x[mm]	[m]	[bar]	[mm]
	DA 240 piece A **	146/131	71/55	4,5	4 x 20	25	0 1)	15 ¹)
external	DA 240 piece W **	146/131	71/55	4,5	4 x 20	25	0 1)	15 ¹)
exte	DA 320 piece A **	192/176	79/63	4,5	6 x 20	25	0 1)	15 ¹)
	DA 320 piece W **	192/176	79/63	4,5	6 x 20	25	0 1)	15 ¹)

* Standard stock product ** Waterstop to DIN 18541-2

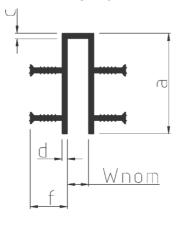
¹) Special project-related data

 v_r Resultant strain = $(vx^2 + vy^2 + vz^2) \frac{1}{2}$

N No. of anchoring ribs with DA and FA

f Height of profile

EXPOSED / FINISHING WATERBAR FORMS



Туре	Waterstops Typ Tricomer BV	Total width	Width of expansion part	Thickness of expansion sion part	Width of sealing parts	Roll length	Water pressure	Resulting movement
		а	W _{nom}	c/d	Nxf		р	Vr
		[mm]	[mm]	[mm]	[1]x[mm]	[m]	[bar]	[mm]
	FA 50/2/3	50	10	5	2 x 35	25	0	20
	FA 50/3/2	50	20	5	2 x 25	25	0	20
	FA 50/3/3 *	50	20	5	2 x 35	25	0	20
	FA 70/3/4 *	70	20	5	2 x 45	25	0	40
	FA 70/5/4 *	70	40	5	2 x 45	25	0	40
	FA 90/3/2	95	20	5	4 x 25	25	0,1	20
	FA 90/3/3 *	95	20	5	4 x 35	25	0,1	20
	FA 130/4/3 **	140	30	5	4 x 35	25	0,1	30
	FA 130/6/3 **	140	50	5	4 x 35	25	0,1	30
	FA 130/3/2	140	20	5	6 x 25	25	0,3	20
	FA 130/3/3	140	20	5	6 x 35	25	0,3	20
	FA 50/5/15 ²)	50	20	5	1 x 45	25	0	20

^{*} Standard stock product ** Waterstop to DIN 18541-2

- for joint width 10 mm: TFL 20 - for joint width 20 mm: TFL 30

- for joint width 30 mm: TFL 40

- for joint width 30 mm: IFL 40

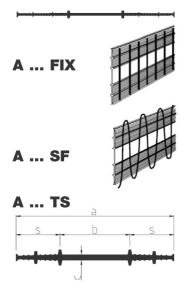
- for joint width 40 mm: TFL 50

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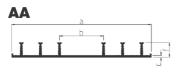


 $^{^{\}rm 2})$ With 150 mm adhesive flange on one side for embedding in bituminous sealant Installation of connecting waterstops with trapezoidal strip TFL, see Accessories.

CONSTRUCTION JOINT WATERSTOP FORMS

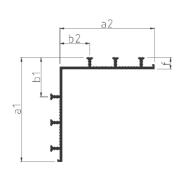


Туре	Waterstops Typ Tricomer BV	Total width	Width of expansio part	Thickness of expar sion part	Width of sealing pa	Roll length	Water pressure	Resulting moveme
		а	b	С	s		р	V _r
	Form	[mm]	[mm]	[mm]	[mm]	[m]	[bar]	[mm]
	A 240 *	240	85	4	77,5	25	0,3	
	A 320 *	320	110	5	105	25	1,0	
	A 500	500	155	6,5	172,5	25	1,2	
-	A 240 FIX *	240	80	4	80	25	0,3	
internal	A 320 FIX *	320	100	5	110	25	1,0	3
.⊆	A 240 SF **	240	70	4	85	25	0,1	
	A 320 SF **	320	110	5	105	25	0,3	
	A 260 TS	260	115	9	72,5	25	¹)	
	A 320 TS	320	165	10	77,5	25)	
				An	choring ri	ibs		
				Nxf				
				[1] x [mm]				
	AA 240	240	90	4,5	4 x 20	25	0 1)	
	AA 240/2 *	240	90	4,5	4 x 25	25	0,2	
	AA 240/3 *	240	104	5	4 x 35	20	0,2	
	AA 320 **	330	104	4,5	6 x 20	25	0 1)	



AA 650/30 for construction joints with low clearance of ca. 20 cm, e.g. in suspended ceilings





A = ANCHORING RIBS EX-TERNAL

I = ANCHORING RIBS IN-TERNAL

W = ANCHORING RIBS RECIPROCAL

- ¹) Special project-related data

AA 320/2 *

AA 320/3 *

AA 500

AA 500/2

AA 500/3

AA 650/30 **

AA 240 Ecke A **

AA 240 Ecke W**

AA 240 Ecke I **

AA 320 Ecke A**

AA 320 Ecke W**

AA 320 Ecke I**

external

 v_r Resultant strain = $(vx^2 + vy^2 + vz^2) \frac{1}{2}$

330

330

500

500

500

650

a1/a2

136/120

136/120

136/120

181/165

181/165

165/165

104

104

124

124

124

165

b1/b2

61/45

61/45

61/45

68/52

68/52

52/52

4,5

5

4,5

4,5

5

6

4,5

4,5

4,5

4,5

4,5

4,5

6 x 25

6 x 35

8 x 20

8 x 25

8 x 35

6 x 35

4 x 20

4 x 20

4 x 20

6 x 20

6 x 20

6 x 20

25

25

20

20

25

25

25

25

25

0,3

0 1)

0,3

1,0

0,7

0 1)

0 1)

0 1)

0 1)

 0^{1})

0 1)

3

- N No. of anchoring ribs with DA and FA
- f Height of profile

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WATERSTOP **SELECTION**

WATER PRESSURE COVER DEPTH STRESS

The data in the above tables on water pressure and the resultant stress reflects the general application range in which the waterstops can be used without additional testing.

Shear strains in the y direction (transverse longitudinal to the waterstop) are limited to the dimensions of the nominal joint width wnom without additional measures.

The forms of waterstop are to be selected as detailed in DIN 18197.

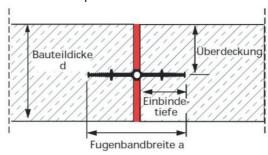
If the water pressure and/or resultant strain value is to be exceeded, the values applicable to the waterstop should be specified on the basis of specific references, calculations or tests, with allowance for all the actual influences and stresses.

RULE OF COVER DEPTH

As applicable to internal waterstop forms:

Concrete cover ≥ embedment depth.

Total waterstop width a ≈ Member thickness



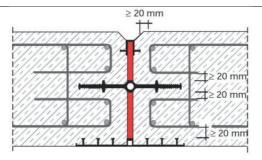
Member thickness Waterbar width a Embedment depth Cover

External waterstops and finishing waterstops can be selected without considering the member thickness.

ANCHORAGE DEPTH

The anchorage depth/concrete cover of the anchor ribs or anchoring ribs must be 30 mm minimum.

REINFORCEMENT **CLEARANCE**



NOMINAL JOINT WIDTHS

The nominal joint width is:

Internal expansion waterstops

External expansion waterstops

Finishing waterstops

 $w_{nom} = 20 \text{ oder } 30 \text{ mm}$

 $w_{nom} = 20 \text{ mm}$

 w_{nom} = in accordance with the profile

clearance (10, 20, 30, 40 mm)

For a greater nominal joint width or compression joints subject to shear stress, internal expansion waterstops with central hose sheathing are used.

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TEMPERATURE RANGE

The service temperature (waterstop temperature) is:

- For pressurised water:
- 20°C bis + 40°C
- For non pressurised water:
- 20°C bis + 60°C

SPECIAL STRESSES AND EXPOSURES

EXPOSURE TO DIFFERENT TEMPERATURES AND CHEMICAL AGENTS

For special stresses or exposure to different temperatures and/or chemical mediums outside the substances or situations specifically defined in DIN 4033, separate tests are always necessary.

SYSTEM

INFORMATION

GENERAL

As specified in DIN 18197 only butt joints should be formed on site with Sika Tricomer based waterstops; the other jointing profiles are factory produced. The factory production of different waterstopping systems and profiles reduces

FACTORY PRODUCED JOINTING PIECES

Standard joint profiles for internal and external Tricomer Waterstops include:







the joints required to be formed on site to a minimum.







L-piece vertical

Cross piece flat T-piece flat L-piece flat Cross piece vertical T-piece vertical

Standard joint profiles of exposed / finishing Waterstops include











Cross piece vertical T-piece vertical L-piece vertical L cross piece flat L-piece flat, cover slab inside

Production of these profiles is preferably in 90° sections, or in standard internal or external angles 60° - 175° .

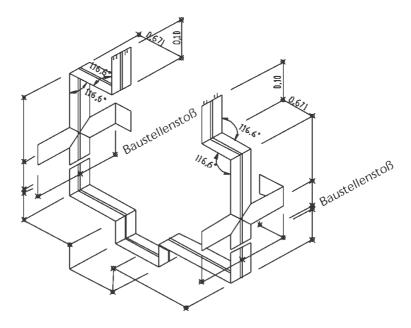
Special joints:

Combined joints using different waterstop forms (as connections), e.g. form D with DA, or DA with FA.

In the standard approach the joint profiles are built into the joint waterstopping system. The sizes of the system components are dependent on the waterstop forms involved and the type and number of joints required. The normal maximum total length of waterstopping systems is up to 25 m maximum (total for all separate lengths).



Typical Waterstop system (as example)



DOCUMENTATION

- Manufacturer's test certificate, other test certificates as required
- Certificate of Conformity
- Regular external monitoring inspection certificates
- System drawings of the systems and components with detailed dimensions

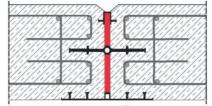
HANDLING

As specified in DIN 18197.

- Careful transport and handling on site
- Installation only at waterstop material temperatures ≥ 0°C
- Protection is required until the waterstopping system is fully cast in
- Special care to be taken of free waterstop ends
- Waterstops are cleaned before casting in

APPLICATION

As specified in DIN 18197.



- Internal waterstops are installed within the concrete section and clearance from the edge of the concrete must be at least half the total width a of the waterstop.
- External waterstops are installed flush with external face of the concrete. Do not install on the top surface of horizontal or slightly sloping concrete.
- Finishing waterstops are installed in the joint, set back by the dimension of the joint chamfer.

Detailed information on installation is given in the relevant method statements and instructions for use of each form. If there are very high stresses or difficult concreting conditions, the waterstops can be supplied in forms with integrated injection hoses to additionally inject / grout around the cast-in parts at a later date.

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JOINTING ON SITE / SITE JOINTS

The thermoplastic Tricomer waterbars are butt jointed together by welding. The edges for connection are melted and joined together in the plastic state. Jointing with adhesives is not permitted under DIN 18197. Site joints must be formed as stated in the welding instructions.

Requirement: Minimum ambient temperature + 5°C and dry weather conditions. The requirements and limitations of DIN 18197 apply to the jointing techniques. The welding equipment used must allow a weld over the full cross-section of the waterstop, be temperature controlled and allow measured pressure. Site joints must be formed only by trained and qualified personnel. Their welding training completion certificates must not be more than 2 years old.

Training courses leading to operative certification are run by Sika Deutschland GmbH, Structural Sealing Division, Illertissen.

The key steps for site jointing and complying with the welding instructions are:

- 1) Cut the waterstop ends, straight and square
- 2) Butt joint with welding equipment SG 320 L, or in special situations with a welding blade

Welding process: Align

Heat/melt Change round Join together

Cool (in ambient temperature - Do not use coolant

3) Inspect and protect the seam as necessary

After cooling for about half an hour the joint is normally finished and may be fixed / installed / stressed. Further steps may be necessary dependent on the joint requirements and the waterstop form. These steps are described in full for all waterstop types in the individual waterstop welding instructions. These instructions are enclosed with every equipment unit or are supplied direct to the contract on request. All welding work is subject to the relevant local Health and Safety regulations. Formation of these site joints takes about a half to three-quarters of an hour of working time per joint, dependent on the specific waterstop form and therefore this time must be scheduled and the work completed properly before the next operations proceed. Two people are required for the welding of site butt joints with a welding axe. For internal construction joint waterstops, a manually welded lap joint is possible (with only 1 person required).

WELDING EQUIPMENTS



Welding equipment SG 320 L for waterstops up to 320 mm total width Welding equipment SG 600 for waterstops up to 500 mm total width Clamping bars – according to the profiles being used.

Welding equipments are electrical appliances which are subject to standard regular safety checks (under BGV A 3 for example), which must be scheduled and

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arranged when due by the hirer.

The operating instructions for welding equipment SG 320 L describe all of the steps required for waterstop welding and these must be closely followed when forming joints. The welding equipments may only be used as described and according to all relevant regulations as stated in the operating instructions.

MANUAL EQUIPMENT AND TOOLS

Cutting Tape measure

Metre rule Set square Marker pen Cutting knife

Seam protection

With welding strip ca. 25 x 2.5 mm Scissors

Welding blade 200 W

Hot-air gun Wire brush

With welding cord Ø 4 mm Scissors

Pointed 50 W piston

Wire brush



Seam inspection tester

Spark tester / holiday detector

WELDING MATERIAL

Welding foil ca. 25 x 2.5 mm Welding cord Ø ca. 4 mm Roll ca. 25 m

Coil ca. 2.3 kg

Welding materials are supplied to order.

Welding materials must be stored away from dust and contamination.

ACCESSORIES

Waterstop clips





Size 1

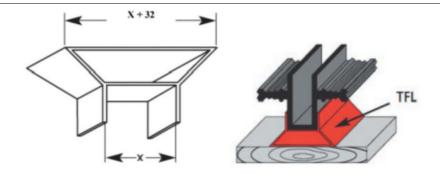
Round clips

The waterstop fixings should be installed at maximum 25 cm centres. Fixing to the reinforcement.

TFL insert profile

for the secure installation of finishing waters





Profile	Joint width w _{nom}	Sightline X	Units
	[mm]	[mm]	[m]
TFL 20	10	20	1 m / 2,50 m in coil of 10
TFL 30	20	30	1 m / 2,50 m in coil of 10
TFL 40	30	40	1 m
TFL 50	40	50	1 m

Future Injection Capability

- Injection hose SikaFuko® -VT 1 and 2 or SikaFuko® -Eco 1
- Round clip 16/18 (for SikaFuko $^{\circ}$ -VT 1 and waterstop form FM/F
- Round clip 22 (for SikaFuko $^{\! \circ}$ -VT 2 waterstop form FM/F) Fixings to be at 12.5 cm centres max.

Installation and injection of the SikaFuko injection hoses is detailed in their respective Product Data Sheets Sika Method Statement / Installation guidelines and the relevant local regulations for the specific Sika injection hoses used.

Hose Stoppers

To plug the injectable hoses at free waterstop ends (as DIN 18197, section. 5.2.1). On permanent free hose ends the projecting part is sealed / stopped and cut off. On temporary free hose ends the stoppers are removed before forming the connecting butt joint.





IMPORTANT INSTRUCTIONS For information and advice on the safe handling, storage and disposal of chemi-**HEALTH HAZARDS** cal 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 our info datasheets are available: "General information on OSH" (Code 7510) and "General information on the wearing of protective gloves" (Code 7511). All technical data stated in the Product Data Sheet are based on laboratory tests. **VALUE BASE** Actual measured data may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields. The information in this product data sheet are valid for the delivered by Sika **COUNTRY SPECIFIC** Germany GmbH product. Please note that details may differ in other countries. **SPECIFICATIONS** Observe the valid abroad Product Data Sheet.

LEGAL NOTES

The above information, in particular the recommendations relating to the application and 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 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 verbal advice or consultation, unless we have acted intentionally or with gross negligence. In such a case, the user must prove that he has provided Sika with all the information, which is necessary for the proper and successful assessment of the case by Sika, in full, in time and in writing. The user of the product shall ensure that the product is suitable for the intended application and purpose. Sika reserves the right to changethe properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms and conditions 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 can either be requested from us or downloaded from our website at www.sika.de.

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Produktdatenblatt

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