Sika Waterbars[®]

PVC Joint Sealing Profiles

Product Description	Flexible Soft PVC-Waterbars to seal construction and expansion joints in concrete structures. Sika Waterbars [®] are available in different sizes and types, depending or their use.					
Uses	Sika Waterbars [®] are used to seal construction and expansion joins in water retaining structures such as reservoirs, water tanks, dams, spillways, canals, swimming pools, sewage tanks etc as well as to keep water out of concrete structures such as basements, underground car parks, tunnels, subways retaining walls etc					
Advantages	 Multi-rib sections of the tortuous path principal. High quality PVC for long durability. Suitable for high water pressure. Easy to install (clip fastening), easy to weld on site. Many different sizes and types available, depending on their use Factory produced cross sections available. 					
Standards/Approvals	 Sika Waterbars[®] have been tested in accordance to: BS. 2571 DIN 18541, Part 2 US. corps of Engineers: CRD-C 572 ASTM D-412 & ASTM D-638 					
Product Data						
Colour	For construction joints: grey. For expansion joints: yellow					
Packaging	15 m rolls. 30 m rolls.					
Storage/Shelf Life	60 months from date of production if stored in unopened, undamaged and sealed original packaging, in dry conditions at temperatures not exceeding +30°C. Protect from UV light.					
Technical Data						
Density	1.45 ± 0.15 kg/l					
Chemical Base	Polyvinyl Chloride					
Service Temperature	- 35°C to + 55°C					
Tensile Strength	≥ 10 N/mm ² 12 - 15 N/mm ² ≥ 11 N/mm ²	DIN 53455 CRD-C 573, ASTM D-412 & D-638 BS 2782 M320A				
Tear Strength	≥ 12 N/mm	DIN 53507 A				
Shore A Hardness	90 ± 5	DIN 53505				
Elongation at Break	> 300 % 300% - 350% > 300 %	DIN 53455 CRD-C 573, ASTM D-412 & D-638 BS 2782 M320A				
Chemical Resistance	Permanent: Water, seawater, sewage, road salt solutions. Temporarily: Diluted inorganic alkalis, mineral acids and mineral oils.					
Alkali Resistance	Passed.	CRD-C 572-65				
Application Details Welding Temperature	~ 200°C.					



Construction

Forms			Туре	Width (cm)	Roll Length (m)	Nom Thickness (mm (±10%))	Max. Water hea (m)
	g of	Construction Joint Light Profile	V-20L V-24L	20 24	30 30	4 4 4.5	10 15
	e. Easy anchorin g clips	Light Profile Standard Profile Standard Profile Expansion Joint Light Profile Max. 20 mm expansion and 10 mm shear movement Standard Profile Max. 20 mm expansion and 10 mm shear movement Standard Profile Standard Profile	V-32L V-15 V-20 V-24 V-32	32 15 20 24 32	15 30 30 30 15	4.5 5 6 6.5 7	25 5 15 25 30
	tructur al fixin			-			
	rete s speci	Light Profile					
	Waterbars center of concl orcement with	Max. 20 mm expansion and 10 mm shear movement	O-20L O-25L O-32L	20 25 32	15 15 15	3.5 2.4 3	10 15 25
	Centrally Placed Waterbars Installation in the center of co waterbars to reinforcement wi	Standard Profile	O-20 O-25 O-32	20 25 32	15 15 15	5 6 7	15 25 30
	<u>v = </u>	Max. 20 mm expansion and 10 mm shear movement	D-19 D-24 D-32	19 24 32	30 15 15	3.5 4 5	10 15 30
	ce of concrete	Construction Joint	AR-20* AR-25* AR-31	20 25 31	15 15 15	3.5 3.5 4	5 10 15
	Irfa	Expansion Joint Max. 10 mm expansion and 5 mm shear movement (19,25)	DR-26* DR-32	26 32	15 15	3.5 4	10 15
	Surfac Installa structur						
Application Selection	* only v	vith four pins The selection of a suitable thickness, grade of concret	e, reinfor	cement p	position, ex	pected movem	ent
		 (expansion/shear) as well a General Guide lines: Experience has shown t satisfactory result: The overhall width of the thickness of the concrete The overall width of the largest aggregate used. 	hat applic Waterba e slab inte	cation of ar should o which i	a few simp be at little t is placed	le rules will ens	sure a
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Installation/Fixation

Centrally Placed Waterbars:

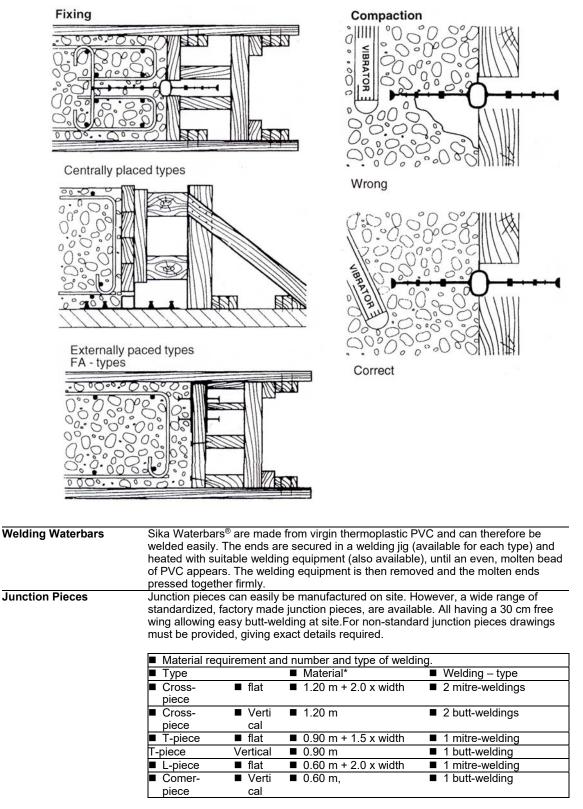
Installation in the centre of the concrete structures. Easy anchoring of Sika Waterbars to reinforcement with special fixing clips (5 pieces per m). Surface Waterbars

Installation on the surface of the formwork or on the surface of the base/drylean concrete.

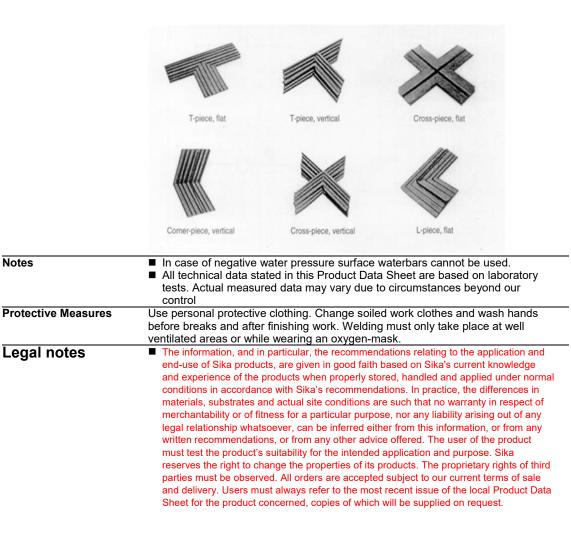
Joint Finishing Types

Installation by pushing onto the formwork or onto the joint lining.

Proper fixing of the Waterbars to the reinforcement (or formwork) is essential, as are the careful pouring and compaction of the concrete. Fixing clips for internally placed Waterbars are available.



* Free Wing: 30 cm (all)







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