



we know how
since 1962

WATERPROOFING ACCESSORIES

PVC WATERSTOPS

PVC waterstops for construction and expansion joints



DESCRIPTION

PVC waterstops or waterbars are mainly used in modern methods of concrete construction with main aim to provide sealing and waterproofing ability to normal and reinforced concrete structures. Modern technology requires that such structures are divided into large sections and are built together by the use of forming and/or expansion joints. Waterstop designs are developed in such way to serve both needs of sealing and concrete section coupling.

TYPICAL APPLICATIONS

Manufacturing & design is according to the latest standards and can be installed in almost any type of concrete structure, covering all joint types, and providing waterproof and sealing properties under any conditions such as seawater contact or high hydrostatic pressure levels.

Common application structures are:

- Wastewater treatment facilities
- Water reservoirs
- Pools
- Basements
- Underground car parks
- Tunnels
- Dam
- Walls
- Bridges
- Canals etc.

Available types & sizes

Waterstops are offered in various types and sizes in order to cover any need and technical specification regarding the concrete structure:

CHARACTERISTICS/ADVANTAGES

- ▶ Free of toxic or hazardous substances
- ▶ Long lasting properties and unaltered characteristics even at low temperatures and adverse environmental conditions
- ▶ Permanent flexibility
- ▶ Special treatment during storage is not required
- ▶ They comply with DIN 18541
- ▶ Quality control and production carried out in accordance with the standards of ISO 9001:2008
- ▶ Produced in different dimensions depending on their use
- ▶ Suitable for sea water contact

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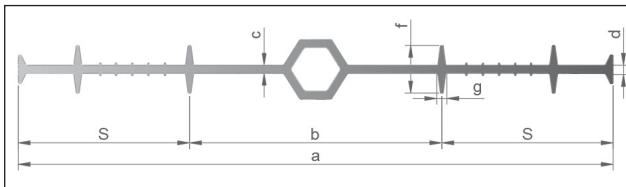
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1. Internal Joints (Internal Waterstop)

This type of waterstop is installed axially in the centre of the structure.

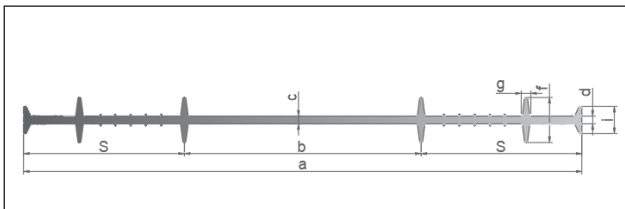
1a) Waterstop with centre bulb (expansion joint)

Manufactured with a **hexagonal centre bulb** in order to handle the movement of the structure and provide a flat surface.



Width			Thickness		Profiling	
a min	b min	s min	c min	d min	f min	g min
150	62	44	3	2,5	10	3
200	70	65	3	2,5	10	3
240-250	80	62,5	4	3	15	4
320	100	75	5	3,5	15	5

1b) Waterstop without centre bulb - Construction joints (no-movement joint).



Width			Thickness		Profiling	
a min	b min	s min	c min	d min	f min	g min
150	62	44	3	2,5	10	3
200	70	65	3	2,5	10	3
240	80	62,5	3,5	2,5	15	3,5
320	100	75	4,5	3	15	4,5



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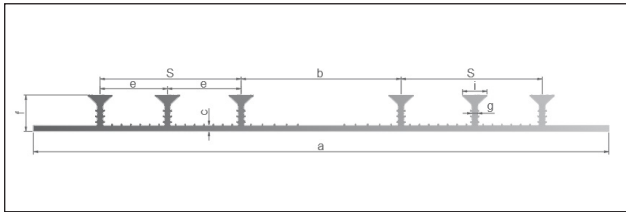
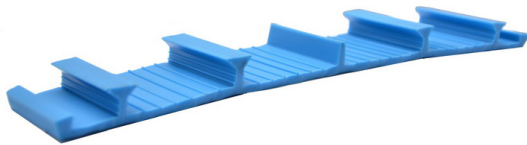
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2. External Joints (External Waterstop)

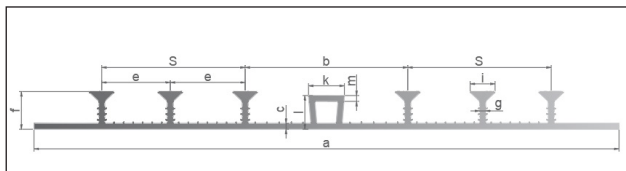
They are used on the formwork's surface or on modulated surface in concrete.

2a) without centre bulb



Width			Thickness			Profile		Ribs
a min	b min	e min	c min	f min	g min	i min	N	
200	80	45	3	20	10	10	4	
240	90	45	3	20	11	11	4	
320	100	45	4	25	151	11	6	

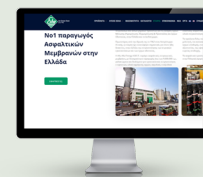
2b) with center bulb



Width			Thickness			Profile		Ribs	Bulb	
a min	b min	e min	c min	f min	g min	i min	N	k, i min	m min	
200	80	45	3	20	3	10	4	20	3	
240	90	45	4	20	4	11	4	20	4	
320	100	45	4	25	4	11	6	20	4	

For a more detailed description of bituminous waterproofing membranes' application please contact Esha Sales Department.

Today, Esha is the No. 1 producer of bituminous waterproofing membranes in Greece, while also offering more than 500 specialized products (emulsions and solutions for surface protection and waterproofing, joint sealing materials, acrylics, epoxies, polyurethanes, polysulfides, modified road asphalt (elastomers, plastomers, recycled tires), asphalt road emulsions, asphalt bridge waterproofing materials, polyurethane thermal insulation boards, etc.).



See the products and their applications on our new website www.esha.gr



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TECHNICAL CHARACTERISTICS

Raw Material	PVC-P	-	-	-
Density	1,49	± 0,03	g/cm ³	ISO 2781:2008
Breaking Stress	≥10		N/mm ²	EN ISO 527-1-2
Breaking Load	127		N	ELOT EN ISO 527-1-2
Elongation at Break	≥350	-	-	EN ISO 527-1-2
Shore A Hardness	67	± 5	-	DIN 53505
Water Absortion	120 mg max (at +23°C)	-	-	---
Color	Blue	-	-	-
Hydrostatic Head	More than 20 meters	-	-	Test Report 651_24_DKK-01/05-03-2024
Chemicla Resistance	Permanent: water, seawater, sewage Temporary: diluted inorganics, mineral acids, mineral oils	-	-	-

Fluctuations in nominal values are in accordance with the relevant standards. The manufacturer reserves the right to modify the properties of its products. Esha provides information and, in particular, recommendations regarding the application and end use of its products based on its current knowledge and experience, when the products are stored, used, and applied under normal conditions. In practice, there are variations in substrates and local application conditions, so Esha cannot guarantee the success of the application of any material. It is recommended that the user test the application of the material under the local application conditions.