

## I 20-4 TYPE WATERSTOP

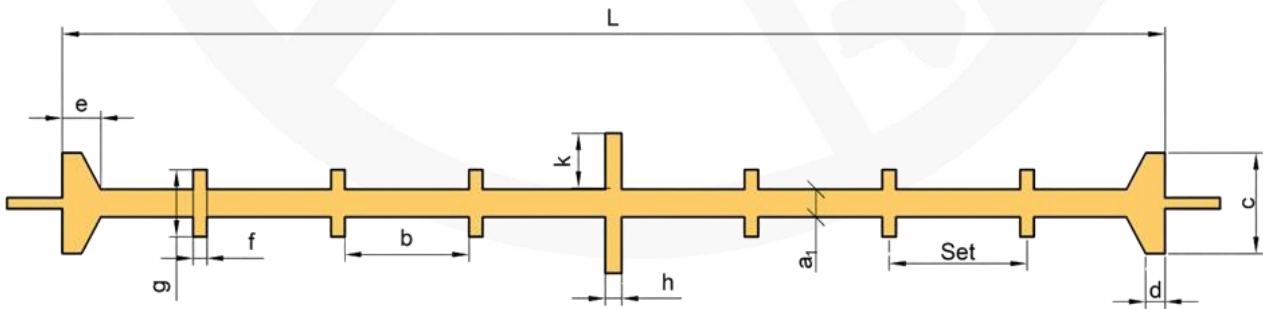
- It is used at the joints of raft foundation - raft foundation, raft foundation - shear wall or shear wall - shear wall in structures exposed to low and high water pressure in full and partial contraction joints.
- Waterstops can be joined to each other by heat (thermal) welding (150 °C - 180 °C).



### TECHNICAL DATA

#### General Application Areas of Waterstop

- Dams,
- Irrigation canals,
- Water tanks, reservoirs,
- Water purification plants,
- Swimming pools,
- Docks Transmission tunnels,
- Hydroelectric power plants,
- Bridges,
- Metro constructions,
- Viaducts,
- Retaining walls,
- Slabs on ground and foundations,
- Industrial structures.



Product Code	L	a <sub>1</sub>	b	Set Quantity	c	d	e	f	g	h	k	Production Length
I 20-4	200 ± 3	4 ± 0.5	25	6	18 ± 2	4	8	3 ± 0.5	12 ± 1	3	12 ± 2	20 meters

Waterstop dimensions are in millimeters.

### Mechanical Properties

Analysis	Basic requirement		Unit	Standard	
Tensile strenght ( $\sigma_0$ )	Average value	At least 14	N/mm <sup>2</sup>	TS 3078	
	Smallest value	At least 12	N/mm <sup>2</sup>	TS 3078	
Elongation rate at break ( $\epsilon_0$ )	Average value	At least 225	%	TS 3078	
	Smallest value	At least 200	%	TS 3078	
Type A Shore durometer hardness rating ( $H_0$ )		75 ± 5	Shore A	TS 3078	
Unit volume mass (d)		1.27 ± 0.04	g/cm <sup>3</sup>	TS 3078	
Water absorption rate by mass (s)		Maximum 1.5	%	TS 3078	
After aging	Tensile strenght	$\sigma_1$	Maximum 0.80 x $\sigma_0$	N/mm <sup>2</sup>	TS 3078
		Rate of change	Maximum 20	%	TS 3078
	Elongation rate at break	$\epsilon_1$	At least 0.80 x $\epsilon_0$	%	TS 3078
		Rate of change	Maximum 20	%	TS 3078
	Type A Shore durometer hardness rating	$H_1$	$H_0 \pm 5$	Shore A	TS 3078
		Amount of change	± 5	Shore A	TS 3078
Residue fraction by mass (k)		Maximum 5.0 (m/m)	%	TS 3078	