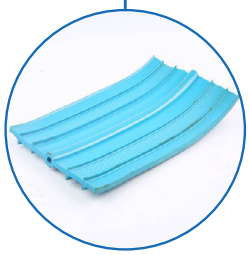
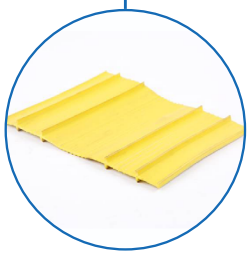
PVC Waterstop

The PVC waterstop is embedded in the concrete joint to form a continuous waterproof diaphragm, prevent liquid leakage at the structural joint, and is suitable for expansion or contraction joints under hydrostatic pressure, and can adapt to horizontal and longitudinal displacement. Its material is high quality polyvinyl chloride, adding plasticizer and stabilizer and other chemical additives.

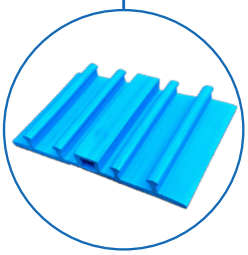
Category



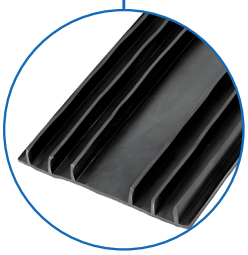
PVC waterstop with center bulb



PVC waterstop without center bulb



Back stick PVC waterstop with center bulb



Back stick PVC waterstop without center bulb

Properties

Physical properties	Test methods	Minimum value
Water absorption	ASTM D-570	< 5%
Tear resistance	ASTM D-624	300 psi
Specific gravity	ASTM D-792	1.4 ± 0.05
Hardness shore A15	ASTM D-2240	79 ± 3
Tensile strength	ASTM D-638 Type IV	2000 psi
Ultimate elongation	ASTM D-638 Type IV	300%
100% modulus	ASTM D-638 Type IV	725 psi
Low temperature brittleness (Tb) ˚F (˚C)	ASTM D-746	-35 (-37) passed
Stiffness in Flexure	ASTM D-747	600 psi
Ozone Resistance	ASTM D-1149	No Failure
Accelerated Extraction, CRD-572		
Tensile	CDR - C- 572	1850 psi
Elongation	CDR - C- 572	350%
Effect of Alkali, CRD-572		
Weight Change	CRD-572	0.0015
Change in Hardness Shore A	ASTM D-2240	± 5 points

Installation

In general, the right way of waterstop installation determines the performance in preventing waters and other waterborne chemicals. Any deflection and misalignment should be avoided - that means the best way of installation is to fix the PVC waterstop to the surrounding steel. So for easy installation, three economical methods are provided by our company as shown in the picture:

- Punched flanges
- Grommets
- Hog rings or clamps

Features & benefits

- High tensile strength.
- Superior elongation capability.
- Excellent inherent elasticity and impermeability
- High resistance to acids, ozone, seawater even diesel oil.
- Extremely alkalis, chlorinated water and other waterborne chemicals resistant.
- Not susceptible to fatigue deterioration as with metal or rubber.
- High quality meet even exceed the industrials standard.
- Never discolor concrete.
- No electrolytic action with surrounding metals.
- Capable to withstand hydrostatic pressure.
- Heat weldable in conjunction with electric splicing irons.
- Withstand the expansion and contraction movement of the joints.
- Capable to taking care of any deflection or displacement arising caused by temperature changing or differential settlement of foundation.
- Supplied in coils for easy handling with high flexibility.
- Easy to install by tethering the outer flanges of the PVC waterstop to adjacent a reinforcing bars.

Applications:

- Ideal for movement joints.
- Suitable for above or below grade applications.
- Suitable in portable water tank.
- Water and sewage treatment facilities.
- Liquid retaining structures such as dams, canals water reservoirs, lock and aqueducts.
- Tunnels and culverts.
- Foundations and basements.
- Parking decks, bridge decks and abutments.
- Elevator pits, roof and floor slabs.
- Primary and secondary containment structures.

PVC waterstops for
building foundation constructions

PVC waterstops for bridge decks constructions