

AquaShield

PVC Waterstop

AQUASHIELD PVC Waterstop is a product designed for use in concrete construction containing joints, one side of which is subject to hydrostatic pressure. AQUASHIELD PVC Waterstop is used as a barrier within the joint to prevent the passage of liquid through or across the joint. It is embedded in the concrete on both sides of the joint, and spans the joint. It is designed to accommodate lateral and transverse movement which can cause a joint to open, close or misalign. Embedded in concrete, across and or along the joint, water stops form a watertight diaphragm that prevents the passage of fluid through the joint. AQUASHIELD waterstops meet or exceed the standards of the most stringent specifications, including the U.S. Army Corps of Engineers CRD-C 572-74.

Features

- Flexible but firm , Extreme weather resistant.
- Withstand very low temperature to high.
- Chemical resistant, saline solutions and sewage in general
- Withstanding shear movements and to resisting hydrostatic pressure.
- Excellent and long lasting plasticity.

Application Field

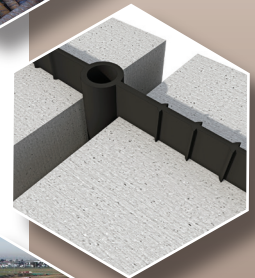
- Construction joints in foundation slabs or below grade walls
- Supporting walls, steel H-piles, and other penetrations
- New-to-existing concrete work
- Septic tanks, sanitary and storm sewer manholes
- Tunnels and metro constructions.
- Dams, locks, canals and water reservoirs.

Physical Properties





Physical Property	ASTM Test Method	AQUASHIELD
Tensile Strength, min (PSI)	ASTM D 412-02	2250
Ultimate Elongation, min (%)	ASTM D 638	379
Hardness, Shore A	ASTM D 2240	65 to 80%
Tensile Stress	ASTM D 638	13.89MPa
Water Absorption, %	ASTM D570	negligible
Compression Set, max % after 22 hours at 158 degrees F.	ASTM D395-02 Method B	30
Specific Gravity	ASTM D792	1.17 +/- 0.3

Installation

Water stop is joined by fusion (hot melt). First, cut the water stop ends at right angle. Aligned, hold in place using alignment plates and fixtures, heated using hot air gun (350□f) and press together to form a butt joint to get a continuous barrier. Installation of Water stop involves split forms. In the first pour the water stop is held in place with blocks or other suitable arrangements on the outside of the split form (away from the concrete which is to be poured). After the first pour has set up, the split forms and block are removed. When the adjoining pour is made, care should be taken to support the water stop



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APPLICATION FIELD	AQUASHIELD	WIDTH mm	THICKNESS mm
Centrally Placed for Construction Joints 	CC 200	200	2.5 to 6
	CC250	250	3 to 6
Centrally Placed for Expansion Joints 	CE150	150	3 to 6
	CE200	200	2.5 to 6
	E250	250	3 to 6
Externally Placed for Construction Joints 	EC200	200	3
	EC250	250	3
Externally Placed for Expansion Joints 	EE200	200	3
	EE250	250	3

Availability : AQUASHIELD PVC water stops are available in standard roll of 15 m length

Storage And Shelf Life : The product will last 60 months from the date of production if stored in its original and sealed packages, in a dry and covered place and with temperatures not exceeding 55°C. They need to be protected from UV rays

Safety Precuations : It is recommended that to provide enough ventilation while heating the edges to make the butt joints. Use eye and face protection masks.

Guarantee : AQUASHIELD water stops are produced with the best row materials available in order to obtain a high quality product . Our guarantee covers the quality of the product but its applications which cannot be under our control

Precautions : Store PVC water stops under tarps or indoors to avoid direct exposure to sunlight. PVC can suffer UV degradation from the sun. Extended UV exposure will leach the plasticizer from the PVC, reducing its physical properties and causing the PVC to become brittle. Protect installed water stops from UV if the pour of concrete will be delayed more than 30 days.

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