ECA PVC WATERSTOPS

PVC Waterstop for water retaining and water excluding concrete structures





Description

ECA PVC Waterstops are made by high-grade Polyvinyl Chloride (PVC) resin extrusion compound that are plasticised and stabilized to offer long life, performance, existence to abrasion and attack by ozone, oxidation, alkalis, hydrocarbons, corrosions, waterborne chemicals and aging. The cross section configuration features a multi rib design for an effective anchor to the concrete a flexible, and a hollow center bulb to accommodate moderate expansion and contraction. ECA PVC Waterstops is flexible, resilient, chemically inert, is not affected by weathering, low temperatures, or constant immersion in water, unaffected by concrete additives and most water solutions of organic chemicals. It has abilities to accept joint movements and the same time prevents water passage through the joints. ECA PVC Waterstops are manufactured to meet the most stringent performance specifications. This is achieved by offering excellent inherent technical characteristics within the product.

Uses

ECA PVC Waterstops are designed to provide an integrated sealing system for construction and expansion joints and differs from actual sealants in that it is already installed in its pre-planned position when the concrete is poured, taking up its function as flexible watertight as soon as the concrete has hardened. ECA PVC Waterstops are specially designed to provide an integral sealing system for water retaining and water excluding concrete structures such as: Water Retaining Structures:

- Sowage Tapks
- Sewage Tanks
- Drainage Canals
- Water Reservoirs

- Swimming Pools
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- Swimming Pools
- Dams, Canals, Culverts
- Water Treatment Plants
- Water Excluding Structures:
- Foundations, Basements
- Roof Decks
- Tunnels
- Pumping Stations
- Underground Chamber/Car Parking
- Subways
- Bridges
- Retaining Walls

Advantages

• It is totally free of defects in material handling and workmanship and also it will not brittle or crack due to normal exposure.

Normal water control applications in shore
A-hardness will not effect to its characteristic.
This will resists normal abrasion and tear

failures.

It will not fail under normal expansion and contraction in joints if it is installed in a professional way as mentioned in application method. Multi-rib design for an effective grip and also provides totally effective water barrier.
Reinforced edge flange with brass eylets allows easy wiring to the reinforcement.

Application

Internal joints profile should be positioned within the concrete. These waterstops are held under tension by concrete on either sides thus enabling the waterstop to act as watertight diaphram. The waterstop should be put in place by specially prepared split stop end from work. It's then securely tied with wires to the neighbor ing reinforcement bars to ensure that the waterstops do not bend under the pressure of poured concrete.

Property	Test Method	Nominal Value	
Water absorption	ASTM D 570	0.02	
Tear resistance	ASTM D 624	225 lb/in.	
Ultimate elongation	ASTM D 638	360%	
Tensile strength	ASTM D 638	2000 psi	
Low temperature brittleness	ASTM D 746	Passed at - 35°F /-37°C	
Stiffness in flexure	ASTM D 747	700 Psi	
Specific gravity	ASTM D 792	1.40	
Hardness Shore A15	ASTM D 2240	79±3	
Tensile strength after accelerated extraction	CRD - C 572	1850 psi	
Elongation after accelerated extraction	CRD - C 572	350% min	
Effect of Alkali after 7 days Weight change Hardness change	CRD - C 572	+ 0.10% + 1 point	

Physical Properties

Jointing Details

• Cut both ends to be welded straight using sharp knife (Jig)

• The ends are heated with welding equipment by pushing both ends of waterstop against blade.

- Maintain contact until melt into bead (approximate 1 minute)
- Release Jig and remove knife.

• Molten ends of waterstops are pushed together and allowed to cool for approximate 3 minutes.

• Release Jig and remove waterstop

• Inspect welded joint for continuity of weld and correct alignment of profiles.

Packing and storage

ECA PVC Waterstops comes in 15, 20 meters roll. It should be stored in a shaded area away from chemicals and sharp edges.

Health and Safety

ECA PVC Waterstops is completely non-hazardous and non-inflammable, but however care should be taken while cutting and welding the joints. Hydrogen Chloride vapour will be released during the hot welding and therefore the joint area should be properly ventilated.

Technical Service

The Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

			Width mm	Roll	Nominal		
	Uses	Type	(± 5mm)	Length	Thickness		
Centrally Placed Waterbars: Installation in the center of concrete structures							
Constructio	· • • • • • • • •	V-15	150	20	3.0 - 5.0		
		V-20	200	20	3.0 - 5.0		
		V-25	250	20	3.0 - 5.0		
		V-32	320	15	3.0 - 8.0		
Expansion Joints	·+ +=0-+ +-	0-15	150	20	3.0 - 4.5		
		0-20	200	20	3.0-4.5		
		0-25	250	20	3.0 - 4.5		
		0-32	320	15	3.0-8.0		

Contact Information

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