





Vetostop *PVC Waterstops*

Concrete embedded PVC waterstops range

Uses

- Underground chambers, STPS and WTPS.
- Retaining walls, dams, canals and ponds.
- Basements, tunnels, subways and culverts.
- Reservoirs, tanks and swimming pools.
- Strip and raft foundations.

Product Description

Vetostop PVC water stops is a range of concrete embedded PVC profiles that stop water passage through tortuous path and positive valve seal mechanisms. The profiles are precisely engineered to block water passage in concrete joints. Vetostop PVC profiles are extruded from virgin non-recycled elastomeric polyvinyl chloride rubber. The profiles are designed for both internal fixation and external fixation with the internal sections having brass eyelets placed on the non effective sides of the sections to enable tying to steel reinforcement for efficient fixation during concrete pours. Heavy duty profiles are used where large sections or where concrete heights exceed 4 meters.

Advantages

- Unique profile design with multiple ribs.
- Has no effect on the quality of potable water.
- Brass eyelets at 30cm spacing for more rigidity while concreting.
- Hollow center bulb for expansion joints to accommodate movement.
- Factory prefabricated junction pieces.
- Easy to join on site.
- Resistant to a wide range of diluted chemicals including hydrocarbons.
- Heavy duty sections with high inertia resisting bending during concrete pours.

Standards Compliance

- > ASTM D412-06a (2013), D624, D747, D792
- > ASTM 2240-5 (2010)
- US Corps of Engineers CRD C515, C569, C570, C571, C572, C573.
- > US Department of Agriculture Guidelines.
- ► BS2571-1990, BS2782

Design Criteria

PVC water stops choice follows the guidelines of EN BS8102:2009 and CIRIA report No. 139.

Technical Data

Vetostop PVC Range	Typical Values @ 25°C		
Color	Blue		
Specific Gravity	1.4		
Tensile strength	≥14 MPa		
Ultimate elongation after accelerated extraction	≥ 300 %		
Low temperature brittleness @ -37.2 °C	No crackking nor chipping (No sign of failure)		
Tear resistance	38 MPa		
Flexural modulus	5 Mpa		
Tensile strength after accelerated extraction	11 MPa		
Tensile strength of factory made Splice	8 MPa		
Effect of Alkalies, change in weight @ 7 days	-0.1 - 0.25 %		
Shore A Hardness	80		
Effect of Alkalies, change in Shore Hardness @ 7 days	±5 %		





Recommended Profiles

	Use	Туре	Thickness (mm)	Width (mm)	Roll Length (m)	Profile
For Construction Joints	Center fixation	CC250	6	250	12	► ┃·····
	External Fixation	RC250	6	250	12	<u>.TT. I.TT.</u>
	Heavy duty for Center Fixation	HC250	10	250	10	• - - •
For Expansion Joints (center Bulb)	Center fixation	CE250	6	250	12	·+
	External Fixation	RE250	6	250	12	<u>. Ţ. Ţ. Ţ. Ţ.</u>
	Heavy duty for Center Fixation	HE250	10	250	10	-

Center Fixation:

- Vetostop CE250: 250 mm wide centrally fixed with bulb for expansion joint.
- Vetostop CC250: 250 mm wide centrally fixed profile for construction and contraction joints.
- Vetostop RE250: 250 mm wide rear fixation for expansion joints.
- Vetostop RC250: 250 mm wide rear fixation for construction and contraction joints.
- Vetostop HC250: 250 mm wide centrally fixed heavy duty profile for construction and contraction joints.
- Vetostop HE250: 250 mm wide centrally fixed heavy duty profile for expansion joints.

Usage Instructions

Vetostop PVC center fix profiles inside form-work should be tied by steel wires to the reinforcement through the eyelets in the edge flanges. Rear fixation profiles should be fixed before concreting with nails to the concrete blinding and vertical shutters through the edge flanges.

Site Welding

The key to a leak free waterstop network is correct on-site jointing. Vetostop PVC range is made of thermoplastic PVC, and can be easily welded using suitable heating processes, such as welding knife. Cut the edges to be welded in a sharp and straight line then

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secure the ends in a welding jig. Use the welding knife between the ends, until an even, molten bead appears.

Remove the welding knife and press the ends firmly together. Consult Saveto technical departments for further details.

Junction Pieces

Full range of factory made junction pieces are available for all profiles, for the following:

- Flat and vertical cross.
- > Flat and vertical T.
- ► Corner pieces.
- > Flat L.

Other custom pieces can be made upon order to customer specifications.

Shelf Life & Storage

Vetostop PVC range has an unlimited shelf life provided it is stored clear of ground in a dry and shaded place below 35°C.

Health & Safety

Hot welding of PVC will generate acidic hydrogen chloride fumes, jointing should take place in a well ventilated area, or while wearing oxygen mask. Avoid breathing fumes. Wear a proper mask.

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