



W. R. MEADOWS

SEALTIGHT

DATA SHEET NO. 3150-312

PVC WATERSTOPS

DESCRIPTION

Premium PVC WATERSTOPS are manufactured from premium quality thermoplastic resins, which are plasticized and stabilized for controlled properties. For consistent quality, no reclaimed PVC is used. They are extruded in a variety of thicknesses, widths, and centre bulb sizes. The most-used sizes are illustrated in this data sheet, but a variety of other sizes are available.

USES

PVC WATERSTOPS are used in the prevention of the passage of water through joints of liquid-containing or liquid-excluding structures, foundation walls, tunnels, and similar concrete construction. Other applications include swimming pools, reservoirs, water and sewage treatment plants, retaining walls, culverts, bridge abutments, and dams.

FEATURES/BENEFITS

- PVC compound has unsurpassed qualities of ease of handling and low temperature flexibility.
- Centre bulb accommodates limited shear movement.
- Multi-rib web design anchors the waterstop securely in the concrete.
- Supplied in coils, which are easily handled, flexible, and may be bent around corners or formed in curves as required.
- Can be jobsite spliced with specifically designed, thermostatically controlled, electric splicing irons.
- Not susceptible to oxidation or fatigue deterioration, as with metal or rubber.
- Resists attack by acids (except organic acids), alkalis, chlorinated water, seawater, and natural salts - even diesel oil.
- Does not set up electrolysis with structural or reinforcing steel and will not discolour concrete.

PRECAUTIONS

Proper installation is essential. Voids, honeycombing, segregation of the mix, or any condition which leads to greater concrete permeability are to be avoided. PVC WATERSTOPS should not come in contact with asphaltic-

based products.

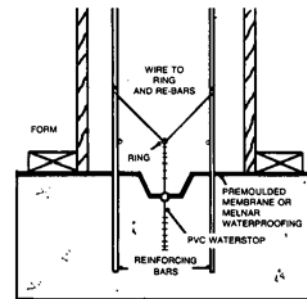
APPLICATION

Secure the waterstop in place, using split forms or other suitable method, to ensure correct positioning and proper embedment of the waterstop in the concrete. Position the bulb exactly in the middle of the joint.

Vibrate the concrete around the waterstop thoroughly to eliminate voids or honeycombs and to ensure effective bonding of the concrete to the waterstop ribs.

Before second pour, place copper-clad steel rings as far as possible from the outer edge of the waterstop. Slip #16 gauge tie wires through the rings and secure to the forms or to the reinforcing steel. Provide sufficient number of ties to maintain the waterstop in position during the second pour.

Splicing can be accomplished by softening the ends of PVC WATERSTOPS to melting point $200^{\circ}\text{C} \pm 10^{\circ}\text{C}$ ($392^{\circ}\text{F} \pm 50^{\circ}\text{F}$) over an indirect heat source. Thermostatically controlled, Teflon-covered welding irons are recommended (available from W. R. MEADOWS). When the plastic begins to melt, place the ends together in direct alignment and hold firmly in position until the plastic cools (about 20 seconds).



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TECHNICAL DATA

PHYSICAL PROPERTIES	TEST METHOD	Premium Grade
Tensile Strength	ASTM D 638 Type IV	13 MPa
Ultimate Elongation	ASTM D 638 Type IV	340%
Low Temp. Brittleness	ASTM D 746	-38° C (-37° F)
Tear Resistance	ASTM D 624 Die "B"	50 kn/m
Modulus of Elasticity	ASTM D 638 Type IV	10 MPa
Effects of Alkali Change in mass	ASTM D 471 CGSB 41-GP-34M	4.5%
Ultimate Elongation	ASTM D 471 CGSB 41-GP-35M	280%

SELECTION

Select width which will withstand the hydrostatic pressures on the joint. (See table.) Consider the dimensions of the joints at the time of pouring and the expected movement between the segments. Types less than 152.4 mm (6") wide are not recommended for joints more than 12.7 mm (1/2") wide at time of pouring. PVC WATERSTOPS must be correctly positioned for maximum efficiency. Select a type that is thick enough to remain positioned during the concrete pours. Thinner types can be wired to surrounding reinforcement. Heavier sections are recommended for larger structures that are not reinforced.

MASTERFORMAT NUMBER AND TITLE







03 15 00 – Concrete Accessories

LEED INFORMATION

- May help contribute to LEED credits:
- MR Credit 4: Recycled Content
 - MR Credit 5: Regional Materials

2016-08-25

STANDARD PROFILES: Premium Grade conforming to - CGSB 41 GP 35M Types II and III- Ontario Hydro M-264-75 and MTO Accepted, DSM 9.40.90

Type No.	Width		Recommended Max. Head of Water		Approx. Wt. per 100 ft. (lbs.)	Lengths m	Stand. (ft.)	
	Mm	(in.)	m	(ft.)				
4316	102	4	19.8	65	40	15.24	50	
6316	152	6	30.5	100	73	15.24	50	
6380	152	6	38.1	125	127	15.24	50	
9316	229	9	45.7	150	119	15.24	50	
9380	229	9	45.7	150	162	15.24	50	
9380-G	229	9	45.7	150	228	15.24	50	

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