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<tr>
<th>Retro/Centerline/Teard Web</th>
<th>Retrofit</th>
<th>Petro Cap</th>
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<tr>
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<td>KK610</td>
<td>PTC12</td>
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<td>PTC34</td>
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<td>VRB9316</td>
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<tr>
<td>VTBW6316</td>
<td></td>
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<td>VTBW9316</td>
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Retrofit shapes are for new to existing concrete applications and are sold as a system. The system includes a TPER profile, stainless steel batten bar and anchor bolts. Epoxy gel is available and sold separately.

Petro Cap is designed for placement over an expansion board to create a joint seal and waterstop in expansion joint applications.

PVC Waterstop for Joints in Concrete

Vinylex PVC Waterstop prevents water movement through concrete joints and are a critical component to many structures including reservoirs, locks, canals, dams, sewage and water treatment plants, bridges, stadiums, basements, floor slabs, and parking garages.

Vinylex Waterstop & Accessories has established a reputation for producing only the finest extruded plastic products. Only virgin resins are used in Vinylex Waterstop... never reprocessed or reclaimed materials. The elastic and abrasion resistant qualities of Vinylex Waterstop, together with high resistance to oxygen, ozone, alkalis or waterborne chemicals allow its use in a variety of subterranean and surface structures.

www.VinylexWaterstop.com

Also featuring BlueStop, ULTRASTOP, DUROSEAL & PETROSTOP
SELECTING A PVC WATERSTOP

When cast-in-place concrete members have joints that will be subject to water seepage or hydrostatic pressure, Vinylex PVC Waterstop should be installed. In all below grade construction and in any surface structure where it is necessary or desirable to contain or exclude moisture or water under pressure, Vinylex Waterstop provides a simple, effective and positive seal.

Vinylex PVC Waterstop is offered in several shape types to accommodate a wide range of applications, including construction, contraction and expansion joints. The Selection Guide offers general references for the most popular shapes.

Most shapes are available in several widths and thicknesses. Generally, width and thickness will dictate how much hydrostatic head pressure the waterstop can withstand and when applicable the size of the centerbulb or tearweb will dictate allowable joint movement.

Vinylex Waterstop & Accessories offers additional shapes for unique requirements, including retrofit applications and several shapes designed by various state transportation departments, including:

- California
- Massachusetts
- New York
- Texas

There are applications suited for easy to install, strip-applied waterstops. Typical applications include: culverts, foundations, retaining walls, slabs-on-grade, concrete pipe and pipe penetrations. These products are applied with a primer adhesive to new or existing concrete surfaces prior to a second pour. The second pour encapsulates the waterstop in the construction joint creating a barrier against fluid migration.

These products are not suitable for moving joints.

BlueSTOP is formulated to encapsulate hydrophilic materials into a rubber base creating a controlled, moisture-activated sealant. BlueStop has the structural integrity of a rubber-base sealant, conforming well to the underlying substrate and exhibiting self-healing properties when needed. Unlike many of the traditional clay-based products, BlueStop will not expand to a point that the waterstop itself is destroyed. The controlled expansion properties engineered into BlueStop reduce the internal pressures created in cast-in-place applications. BlueStop requires 2" minimum concrete cover.

UltraSTOP is a single component, self-sealing mastic waterstop which prevents moisture from penetrating NON-MOVING joints in concrete construction. UltraStop is very similar in appearance to BlueStop, but requires minimum concrete cover and does not exert pressure on the concrete.

BlueStop and UltraStop are easily installed using a primer adhesive specially formulated for each.

DUROSEAL Gaskets are formulated with water-swelling acrylate-esters. In contact with water, Duroseal Gaskets increase in volume to form an exact seal with the surrounding surfaces, preventing water intrusion through the joint. Duroseal Gaskets are resistant to many chemicals.

DUROSEAL Paste Type E is a single component expanding paste with a polyurethane base, suitable for sealing concrete construction joints. On contact with water, cured DUROSEAL Paste Type E swells and seals the construction joint against water penetration. An increase in volume of approximately 250% is produced by storage of water in the paste’s molecular structure. Duroseal Paste Type E is supplied in ready to use cartridges.

Call Vinylex Waterstop & Accessories for more information regarding Strip Applied Waterstops
PVC Waterstop Splicing Accessories

In most applications, installing a PVC waterstop system will include straight splices, directional changes and/or intersections. Vinylex Waterstop & Accessories offers irons and fittings to facilitate a quality installation. Straight splices are accomplished in the field using a thermostatically controlled heating iron, outfitted with a Teflon cover. Small irons are suited to most profiles, however shapes with larger centerbulbs, tearwebs or perpendicular flanges may require a large iron to facilitate proper splicing.

Prefabricated Fittings

Factory-fabricated fittings are strongly recommended for directional changes and intersections. Vertical and flat ells, tees and crosses are available for the majority of profiles. Factory-fabricated fittings can reduce installation costs significantly and provide quality assurance at locations critical to the functionality of the waterstop system. Consult Vinylex Waterstop & Accessories for more complex transitions or where different sizes or shapes intersect.

Note: Profiles such as Labyrinth with Center Bulb is extremely versatile and can be used in both working and non-working joints. The majority of applications can be served by one of the shapes.

Ribbed Shapes without centerbulbs are suitable for construction or contraction joints where little or no movement will occur.

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Ribbed Shapes without centerbulbs are suitable for construction or contraction joints where little or no movement will occur.
NOTE: The original waterstops featured a dumbbell design, but ribbed shapes provide a better seal.

Dumbbell Shapes without center bulbs are suitable for construction or contraction joints where little or no movement will occur.

**Dumbbell with Center Bulb Shapes** are designed to accommodate movement in expansion joints.

**Ribbed with Tear Web Shapes** will accommodate differential or significant movement in expansion joints. The Tear Web is uniquely designed to detach at a strategic point, allowing the U-shaped bulb to deform as needed without stressing the waterstop material.

**Labyrinth Shapes** are typically used in vertical joints anticipating little or no movement. Labyrinth does not require split formwork.

**Split Shapes** are designed to eliminate split formwork, but have limited practical applications. Split shapes are for vertical applications where no directional changes or intersections will be required.

**Base Seal Shapes** are highly suited to slabs-on-grade and some below grade wall joints. Base Seal Shapes are easy to install.

**SPECIAL SHAPES**

**RET638** is designed for retro-fit applications where new concrete meets an existing structure. The waterstop is mechanically fastened to the existing structure with batten bars, anchor bolts and an epoxy gel leaving the extended leg to be embedded in new concrete.

**W12** is offered to meet the design requirements of Caltrans for bridge deck joints.

**VS316** is offered to meet the design requirements of MASS Highway for 5” waterstops.
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Note: Profiles such as Labyrinth transitions or where different sizes & Accessories for more complex applications.

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Hog Rings

Proper positioning and anchoring of the waterstop is necessary to prevent deflection during concrete placement. Optional prepunched holes along the outer flange provide points for tethering the waterstop to adjacent reinforcing steel. Hog rings and hog ring pliers are available for performing a comparable method in the field.
Vinylex PVC Waterstop is formulated using only virgin resins and is manufactured to satisfy the requirements of these industry standards:

- Corps of Engineers CRD-C-572
- Bureau of Reclamation
- Various state and federal agencies

### Physical Properties of PVC Waterstop

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>ASTM D-638</td>
<td>2000 PSI Min.</td>
</tr>
<tr>
<td>Ultimate Bongation</td>
<td>ASTM D-638</td>
<td>300% Min.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>ASTM D-792</td>
<td>1.35</td>
</tr>
<tr>
<td>Stiffness in Flexure</td>
<td>ASTM D-747</td>
<td>600 PSI Min.</td>
</tr>
<tr>
<td>Hardness Shore A15</td>
<td>ASTM D-2240</td>
<td>78+3</td>
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<tr>
<td>Low Temperature Britteness @-35°F</td>
<td>ASTM D-746</td>
<td>Pass</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM D-570</td>
<td>1.5% Max.</td>
</tr>
<tr>
<td>Tensile Strength After</td>
<td>CRD-C-572</td>
<td>1850 PSI Min.</td>
</tr>
<tr>
<td>Accelerated Elongation</td>
<td>CRD-C-572</td>
<td>300% Min.</td>
</tr>
<tr>
<td>Alkali Resistance</td>
<td>CRD-C-572</td>
<td>.20% Max.</td>
</tr>
<tr>
<td>• Weight change</td>
<td></td>
<td>2 PSI Max.</td>
</tr>
<tr>
<td>• Hardness change</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tear Resistance</td>
<td>ASTM-D624</td>
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### Contact

Vinylex Waterstop & Accessories for further assistance in selecting a PVC Waterstop

800-325-3602

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**Strip Applied Waterstops**

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Please Contact Vinylex Waterstop & Accessories for chemical resistance information, installation instructions, specifications and warranty statements for any Vinylex waterstop.

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Riveted Centerful/Tear Web

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800-325-3602
St. Louis MO Ontario CA

BlueStop, ULTRASTOP, DUROSEAL & PETRO STOP

www.VinylexWaterstop.com
Franklin MA Greenville SC

08/08