

Earth Shield® Ribbed Centerbulb is the de facto industry standard, utilized on most jobs for its proven fluid-sealing properties.

Property	<b>Test Method</b>	Required Results
Specific Gravity	ASTM D792	.96
Shore A Hardness (5 sec.)	ASTM D2240	90±3 at 77°F
Tensile Strength	ASTM D412	2,300 psi
Ultimate Elongation	ASTM D412	530%
100% Modulus	ASTM D746	1,000 psi
Tear Strength	ASTM D624	278 pli at 77°F
Compression Set	ASTM D395	29% at 77°F
Brittle Point	ASTM D746	-78°F
Drinking Water Safe	NSF/ANSI 61	Waterstop certified by NSF for use in potable water
Ozone Resistance	ASTM D1171	Passed, no cracking at 500 pphm
Chemical Resistance	ASTM D471	Meet or exceed specific testing standards for contained fluids as required by Owner and certified by Manufacturer
Green Certification	GreenSpec	Approved

Waterstops play a critical role in the integrity of concrete structures. They provide a fluid-



tight diaphragm when embedded in, and running through concrete joints.

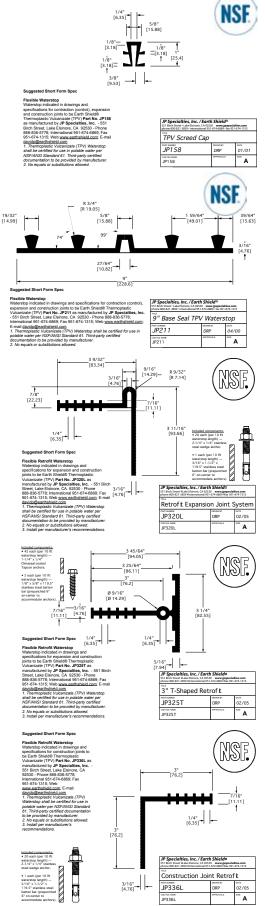
Earth Shield® Thermoplastic Vulcanizate Waterstop (TPV / TPER), by JP Specialties, Inc., greatly expands the scope of conventional waterstop by offering unmatched chemical resistance to a broad spectrum of aggressive chemicals, solvents, and hot petroleum oils. Manufactured NSF certified, EPA-compliant waterstop profiles are available for new construction and retrofit, as well as the tools and accessories for proper field installation.

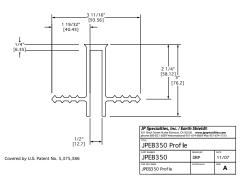


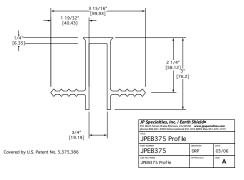
Earth Shield® Chemical Resistant Waterstop P.O. Box 1507, Lake Elsinore, CA 92531 Phone: 888-836-5778; International: 951-674-6869 Fax: 951-674-1315

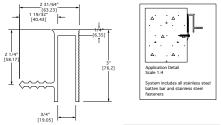


www.earthshield.com (JP SPECIALTIES, INC.)

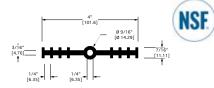










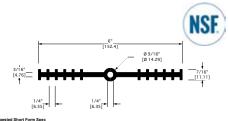


4" RCB TPV Waterstop

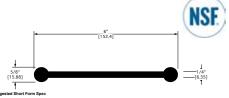
5" T-Shaped Retroft

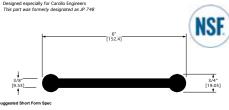
### Installation

Install Earth Shield® Thermoplastic Vulcanizate (TPV / TPER) Waterstop in all concrete joints. Waterstop should be centered in, and run the extent of the joint. All changes of directions should be prefabricated (see Shop Made Fittings), leaving only butt-welding for the field. If installing in an expansion joint, keep center bulb unembedded to allow it to accommodate movement as designed. Use #3 hog rings and tie wire to secure waterstop to reinforcing steel to avoid displacement during the concrete pour. Splice straight lengths of waterstop, and Shop Made Fittings to straight lengths, with an ST-10® In Line Waterstop Splicer with the iron temperature set to 410°F to 430°F. More detailed installation instructions can be found in our Standard 3-part Specifications.

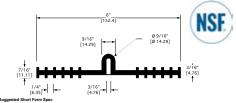




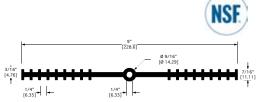




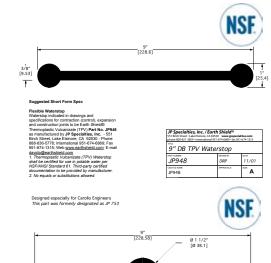
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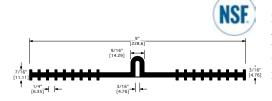
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JP Specialties, Inc. 551 Birch Street - Lake Elsino phone 800-821-3859 - Intern 111.1 9" RCB TPV	ne, CA 92530 www.jpspe ational 951-674-6869 • fax	cialties.com IS1-674-1315
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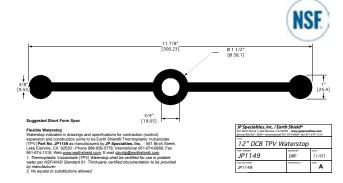
## **Thermoplastic Vulcanizate (TPV / TPER) Waterstop Basic** Use

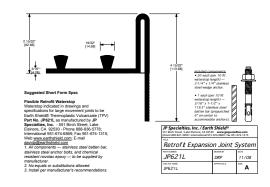
Earth Shield® Chemical Resistant Waterstops are resistant to a wide range of oils, solvents, and aggressive chemicals. Alcohol, ketones, glycols, esters, and aqueous solutions of acids, salts, and bases have little effect on Earth Shield® Thermoplastic Vulcanizate Waterstop.

Unlike polyvinyl chloride (PVC) waterstop, Earth Shield® waterstop contains no plasticizer, stabilizer, or filler to leech out when exposed to chemicals, fuels, and aggressive industrial fluids.

### Earth Shield® TPV Waterstop is NSF Standard 61 Certified.

earthshield.com/ Waterstop\_for\_Concrete\_Joints /nsf\_certified\_waterstop.html







Earth Shield® has solved a long-standing problem for engineered concrete structures with circular protrusions, such as columns, pipes, piers, and pilasters. The problem: how to permanently seal the concrete joint when cast-in-place concrete is formed against an existing circular member. The solution: Earth Shield® Column & Pipe Fitting

(part no. JP320LC1.XX\* [\*XX is the diameter in inches]) manufactured with a flexible, chemical-resistant polymer and stainless steel anchoring hardware. A single laborer on the job site can quickly install the column fitting and its associated hardware. Simply apply an epoxy gel bed to the existing surface; place the polymer ring into the epoxy gel bed; heat weld the single opening on the polymer ring using a waterstop splicing iron; and finally, complete the system with the stainless steel closure ring.



**Availability** www.earthshield.com/availability.html

Earth Shield® Chemical Resistant Waterstop is readily available from a variety of sources:

- Preferred Regional Stocking Partners We are partnered with some of the very best Concrete Accessories Distributors in the world. All our preferred partners have large stocking inventories and are factory trained to provide the utmost in on-site assistance.
- **Distributor Sales** Earth Shield® can be special ordered from many distributor sales channels throughout the world.

Distributed by:

# Earth Shield® Thermoplastic Vulcanizate (TPV / TPER) Waterstop Limited Warranty

JP Specialties, Inc. warrants to the Buyer that this product is new and will be free from defects and will perform as represented in writing subject to the two (2) following conditions: First, the application of the product and the concrete construction practices used in the application are in accordance with JP Specialties, Inc. recommendations; and, Second, the Buyer has selected the proper product for the specific application required.

Any information supplied in good faith by JP Specialties, Inc. with respect to its products is believed to be correct. JP Specialties, Inc. Makes no representation or warranties, expressed or implied, as to the accuracy or completeness of such information.

The exclusive remedies of the Buyer and the limit of the liability of JP Specialties, Inc. from any and all losses or damages resulting from the use of this product shall be either full refund of the purchase price to the Buyer of this product or the replacement of the quantity of product purchased by the Buyer at the discretion of JP Specialties, Inc.

All supplied testing data has been performed by independent testing laboratories. JP Specialties, Inc. has performed no tests.

### Earth Shield® Chemical Resistant Waterstop

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