



JPS Industrial & Municipal Baffles

JPS Industries, Inc., designs and builds custom baffles for both industrial and municipal applications. Both types use the same materials, and are designed to similar specifications; however, the Industrial Baffle is intended to withstand more the most extreme elements. Either type can be designed with adjustable Flow Windows, to move water from one contained area to another, or to control water flow.

Baffle System Specifications

- Material:** XR5 nylon scrim, with rip stop every fourth filament
- Main Ballast:** cast concrete ballast blocks
- Auxiliary Ballast:** 5/16 inch galvanized chain sewn into baffle hem pocket
- Stitching:** silicone-treated nylon, lock stitched
- Hardware:** 304 stainless steel
- Tension members:** Panel top and bottom, 2-inch nylon web straps, 12,000 lb. tensile strength
Panel sides, 3-inch nylon web straps, 20,000 lb. tensile strength

Municipal Baffle Specifications

- Flotation:** external, blow-molded HDPE units, bolted on both sides of baffle

Industrial Baffle Specifications

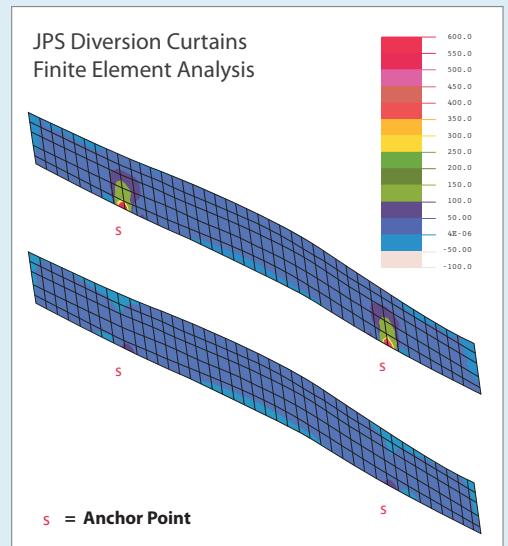
- Flotation:** external, 25 to 50 foot sections of continuous HDPE pipe
- Cross-weave Tension Members:** For each panel, internal tension members on 5-foot centers, vertical and horizontal, 2-inch nylon web strap, 12,000 lb. tensile strength

Engineering and Design Services

JPS Industries, Inc., also offers detailed and accurate profiling of bodies of water:

- Depth to bottom and sediment penetration to 200 meters
- Temperature profiling and prediction
- Current magnitude and directions
- Dissolved oxygen measurements
- 3-dimensional computer visualization of results
- Hydrodynamic and pollutant computer modeling, to determine optimal flow patterns, most effective baffle design

All JPS baffles are composites of 3028 XR-5 material, a nylon-based scrim saturated with XR-5. JPS physically bonds the scrim at seams and other vulnerable areas with lock-stitched coated nylon thread, to provide a superior bond.



ABOVE: The top Finite Element model is of a baffle with tension members constructed of dissimilar materials. The tension members are stainless steel cables, the base material is xr-5. These materials have different rates of expansion under loading which causes high stress buildup at the anchor points, often leading to failure.

The bottom Finite Element model is of a JPS baffle with tension members constructed with a material which has the same rate of expansion as the base material. Note the stress at the anchor points is almost nil, indicating the baffle is absorbing the loading evenly throughout the section.



JPS: The Finest Baffles in the World

JPS Industries, Inc., is world famous for the effectiveness and cost efficiency of its precision-manufactured products. For more than 40 years, we have proudly served the most demanding municipal and private clients in such industries as pulp and paper, food processing, chemical manufacturing, oil storage and transport, and power generation.

Every JPS baffle is an engineered system, custom-designed to your specifications. All the structural components have the same rate of linear expansion, so that stress is evenly absorbed and dispersed throughout the structure. No other manufacturer can make that claim. This uniformity is a key reason for the long life of our products because it minimizes wear and tear.

As a result, some of our products have been on the job continuously for more than 20 years.

Our baffles are composites of 3028 XR-5 coating material and inner nylon scrim. – but we know that dielectric heat sealing by itself does not provide an adequate bond. We also physically bond the scrim at seams and other vulnerable areas with lock-stitched coated nylon thread.

We hold patents on many of our designs.

When you order a JPS baffle, we can take soundings of your pond or lagoon with the most modern sonar equipment, and plot the exact contour of your basin bottom, to fabricate the baffles that will exactly achieve the desired results. We can install the baffles if you wish.

For installations in lagoons with irregular bottoms and/or elevated accumulations of settled solids, JPS can provide the required measurements by taking soundings of your pond or lagoon, using the most modern sonar equipment to plot the exact contour of the basin bottom. This enables us to fabricate the baffles to provide a custom fit. Additionally, we can install the baffles if you wish.

We offer a full two-year warranty, which can be extended to five years. Let us know today how we can meet your baffle needs – efficiently, precisely and cost-effectively.

**JPS also provides comprehensive commercial diving and marine industrial services.
Contact us for more details.**



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