



## **Triton Type III HD** Silt and Turbidity Barrier



Triton Type 3 HD Curtains are designed for silt and turbidity control in areas with fast water, waves or demanding conditions. These barriers surround projects and help to contain materials until they have enough time to settle.



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# Triton Type III HD

## Silt and Turbidity Barrier

Constructed using robust and reliable components, these barriers actively work to contain silt, turbidity and displaced particles around your site. Triton Type 3 HD Silt and Turbidity Curtains are the strongest available barrier for silt and turbidity control. Designed for fast water, waves or demanding conditions, these curtains add increased strength to any containment or control area. Type 3 HD models are typically recommended for use in areas with flows up to 1.5 knots.

### Applications

- Inter-Coastal Projects
- Dredging Sites
- Remediation Projects
- Long Term Projects
- Fast Moving Water
- Projects in Bays and Harbors Areas Severely Affected by Wind or Waves

Accessories are an important component to the installation of any silt curtain or barrier in order to maximize effectiveness.

### Turbidity Curtain Accessories

- Anchor Kits
- Buoys
- Marker Lights
- Tow Bridles

### Importance of Anchoring

Anchoring and anchor kits are one of the most important accessories for sites dealing with moving currents, waves, tides or other site factors. Having the right anchor pattern, installation design and anchors can significantly influence, reduce and redistribute loads placed on your barrier. Contact our technical team (+1 772.646.0597) for more information regarding anchor placement and use.



# Triton Type III HD Silt and Turbidity Barrier



## How a Turbidity Curtain Works

The main function of a silt screen or turbidity barrier is to control the dispersion of suspended silt and to improve settling times (Stokes Law). During a construction project, silt and other materials often become suspended in the water area. Curtains are placed within the water to create a confined zone of contained materials. Contained areas allow marine contractors to stay within Federal and State Clean Water Act and NPDES Phase II regulations. In turn, this helps sites to avoid fines and allows projects to be completed on time.

Please note, turbidity curtains are designed to act as a temporary area that increases the amount of time solids have to settle back down to the bottom of the area. They will not act as dams or walls.

## Product Considerations

Knowing these elements can help determine the right anchoring strategy, curtain model and deployment method.

### *Turbidity Curtains and Salt Water*

When using the Type III HD Silt Barrier in salt water areas, consideration should be given to the tension cables and connectors. The following component adjustments are recommended for any location with salt water; Stainless Steel Cable and Zinc Anode Connectors upgrade, Stainless Steel Chain upgrade, or a combined Cable/Chain upgrade.

For short term projects, galvanized components can be used for a period of up to 12 months.

### *Fabric Considerations*

Alternative fabrics are also available for extended deployment in areas with high pH levels, high temperatures, low temperatures or in areas where chemicals are present.

### *When should I use a Permeable Silt Curtain?*

Permeable Type III Silt Barriers are most commonly used when they are either specified in a site project or when the curtain will be dealing with a significant amount of water pressure. Use of the bottom filter panel can help reduce pressure on the curtain by allowing water to continue to flow through the curtain.

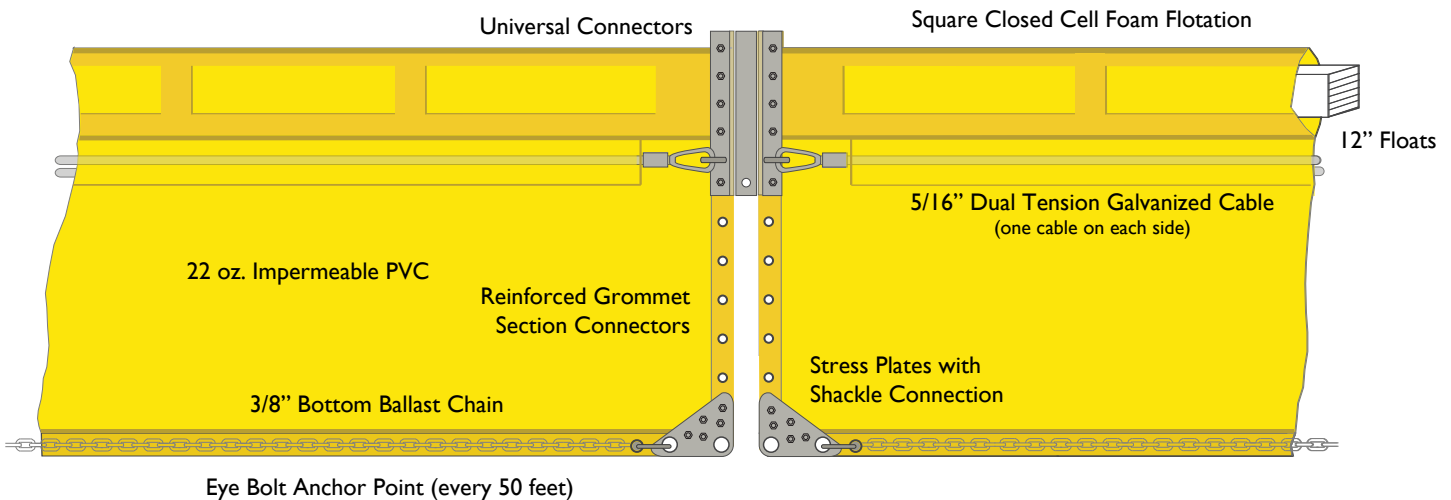
### *Water Conditions, Factors and Considerations*

Consideration of site and water conditions is an important step for any location looking to control silt in a moving water body. Due to the current and waves in these areas, additional pressure is placed on the barrier during use. In order to accommodate and contain silt in these conditions, it is important to consider the following:

- Water Velocity
- Waves (height, frequency)
- Wind Speed and Direction
- Tides
- Soil Type (contaminated?)
- Project Duration

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## Silt and Turbidity Barrier



### SPECIFICATIONS

<b>Length</b>	50'
<b>Depth</b>	3' to 100'
<b>Fabric</b>	22 oz. PVC
<b>Flotation</b>	Square Foam Filled Flotation
<b>Flotation Size</b>	12"
<b>Tension Cable</b>	5/16" Galvanized Steel Cable Sheathed in Vinyl
<b>Bottom Ballast Chain</b>	3/8" Galvanized Steel Chain
<b>Section Connectors</b>	36" Top Universal Bulk Connectors. Bottom Steel Stress Plates. Grommet Skirt Connectors
<b>Color</b>	Yellow
<b>Anchor Points</b>	Every 50' to 100'

GEI Works is dedicated to developing innovative turbidity curtain solutions that provide superior performance and achieve the desired results for our customers. We work closely with our client team to design a deployment layout that takes into consideration all of your project requirements including water conditions, project progress, budget and water quality goals.

Our goal is to work with our clients to develop the best solution for their specific project and help them come in under budget and on time.

For more complete information on GEI Works products and solutions, visit us on the Web at [www.geiworks.com](http://www.geiworks.com).

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