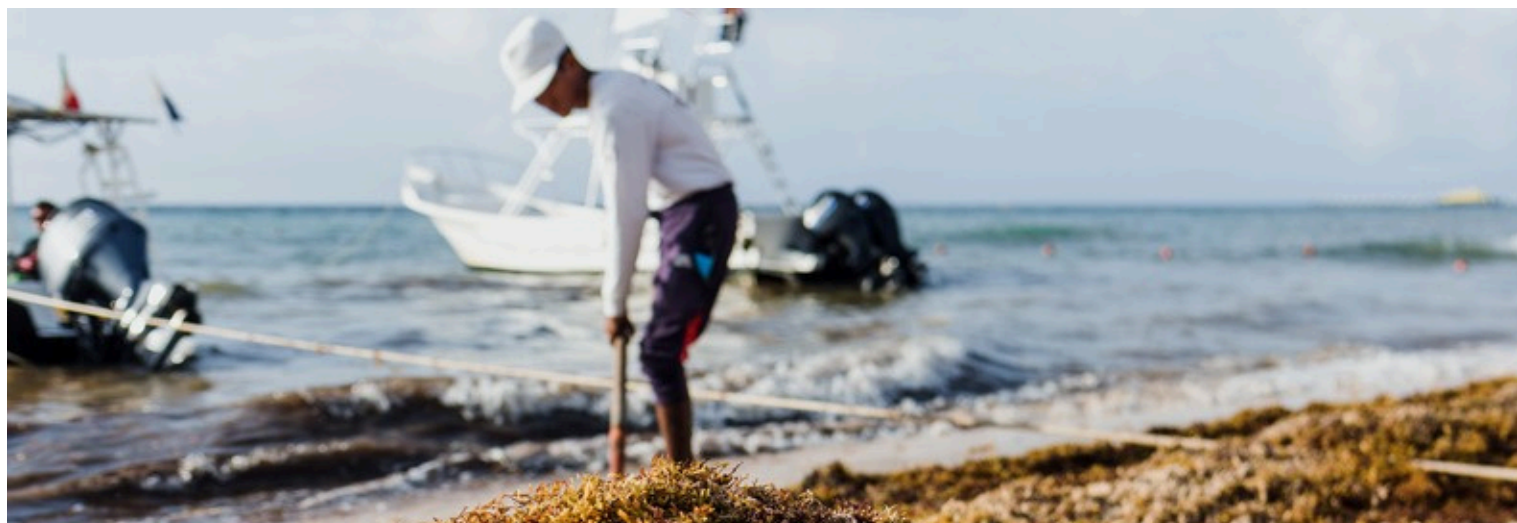


SARGASSUM CONTROL GUIDE

How to Protect Your Beach, Reduce Cleanup, and Improve Experiences

Every year, coastal communities, resorts, hotels, marinas, and municipalities, face the same growing challenge, massive sargassum blooms washing ashore. Left unmanaged, sargassum quickly decomposes, producing unpleasant odors, creating unsafe swimming conditions, harming local ecosystems, and driving away visitors.



The good news? With the right containment strategy, sargassum can be intercepted before it reaches the shoreline, dramatically reducing cleanup costs and protecting your waterfront investment.

Why Control Sargassum?

Whether you manage a beachfront resort, municipal beach, marina, or private shoreline, proactive sargassum management provides benefits.

Instead of removing thousands of pounds of seaweed after it reaches the beach, the most effective strategy is preventing it from arriving in the first place.

- Keep beaches clean and attractive
- Prevent unpleasant odors
- Reduce costly daily beach cleanups
- Protect seagrass beds, coral reefs, and sensitive coastal habitats
- Improve swimmer safety and water
- Preserve property values
- Maintain a positive experience

The Best Solution: Offshore Seaweed Booms

Floating Seaweed Containment Booms (also called Sargassum Barriers) are specifically designed to contain, divert, or deflect floating seaweed before it reaches shore. GEI Works manufactures heavy-duty Seaweed Containment Boom Systems engineered specifically for high-volume sargassum environments.



Our System Features:

- Heavy-Duty Marine-Grade PVC
- ASTM Universal Slide Connectors
- Stainless Steel Hardware
- Ballast Chain for Stability
- Optional Dual Tension Cables
- Permeable or Impermeable Skirts
- Multiple Anchoring Systems for Various Coastal Conditions

These systems are designed specifically for recurring sargassum events and can be configured for seasonal or permanent installations depending on your location and water conditions.

Three Proven Methods of Sargassum Control

Deflection	Diversion	Containment
Position the barrier at an angle to naturally redirect floating sargassum away from beaches using prevailing currents.	Guide sargassum toward a designated collection area where it can be removed efficiently with minimal labor.	Capture floating seaweed offshore before it reaches you, allowing removal by before decomposition begins.
Best For: •Resorts •Hotels •Private Beaches •Residential Shorelines	Best For: •Municipal Beaches •Commercial Properties •Large Waterfront Developments	Best For: •Marinas •Ports •Protected bays •Environmental Restoration Projects

These three deployment strategies are widely recognized as the most effective ways to manage recurring sargassum invasions.

Best Practices for Successful Sargassum Control

Study Water Conditions

Evaluate:

- Current Direction
- Prevailing Winds
- Tidal Movement
- Wave Energy
- Seasonal Sargassum Patterns

Proper positioning allows natural water movement to work with the barrier instead of against it.



Correct Boom Size

Not every shoreline requires the same solution.

Medium-Duty:

Perform well in protected waters.

Heavy-Duty:

Recommended for high-energy coastlines and recurring large-scale sargassum blooms.



Use Proper Anchoring

A boom is only as effective as its anchoring system.

Depending on the site, anchoring options may include:

- Pyramid Anchors
- Fluke Anchors
- Mushroom Anchors
- Auger Anchors

Correct anchoring minimizes movement while maintaining system performance during changing tides and wave conditions.



Inspect Regularly

Routine inspections help maximize service life.

Recommended Maintenance Includes:

- Inspecting Connectors
- Checking Anchor Lines
- Verifying Flotation
- Removing Excessive Seaweed Accumulation
- Inspecting Ballast Chain
- Checking for Storm Damage

Even permanent installations benefit from scheduled preventative maintenance.



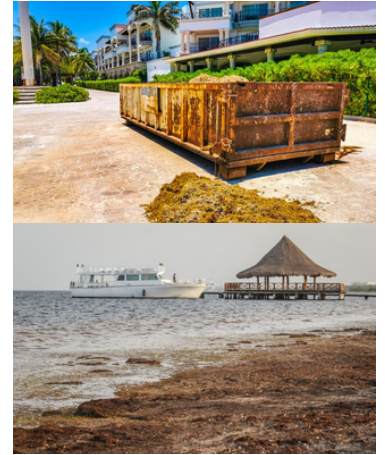
Tips to Reduce Cleanup Costs

Many facilities spend thousands of dollars each season cleaning beaches after sargassum lands.

Instead:

- Capture seaweed offshore before decomposition begins
- Remove accumulated seaweed by boat from collection zones
- Prevent damaging heavy beach equipment
- Reduce labor hours required for manual cleanup
- Improve beach availability for the community and tourists

Preventative containment is typically far more efficient than repeated shoreline cleanup efforts.



Case Study: Sargassum Control For A Private Shoreline in Summerland Key, Florida



Tips to Reduce Cleanup Costs

Fresh floating sargassum is significantly easier to manage than decomposing seaweed on the beach.

Once it washes ashore it can:

- Produce Strong Odors
- Attract Insects
- Reduce Water Quality
- Create Negative Experiences
- Require Expensive Heavy Equipment For Removal

Intercepting sargassum offshore minimizes these challenges while protecting your shoreline.



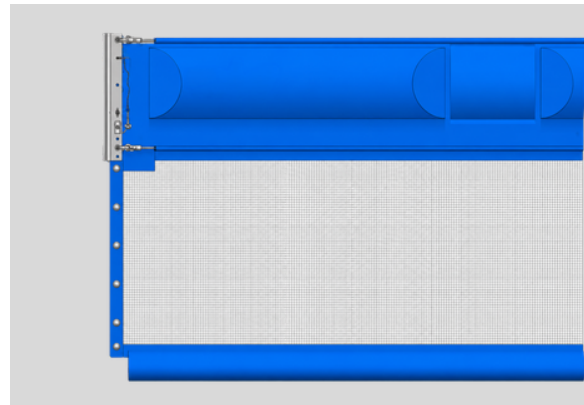


50 in. Heavy Duty (HD) Sargassum Boom

Specifications

Overall Height:	50 in.
Length:	50 ft., Custom Lengths Available
Float Freeboard:	13 in.
Skirt Draft Depth:	36 in.
Fabric Material:	22 oz. Impermeable Blue PVC w/Mesh Permeable Skirt
Top Tension Cable:	Dual SS Top Tension Cables (Above & Below Float)
Bottom Ballast Chain:	1/2 in. Stainless Steel Chain
Section Connectors:	ASTM Universal Slide Connector
Hardware:	Stainless Steel
Anchor Point:	25 ft. On Center
Color Options:	Blue Standard

(Green, Black, Yellow, and Orange Available by Request)

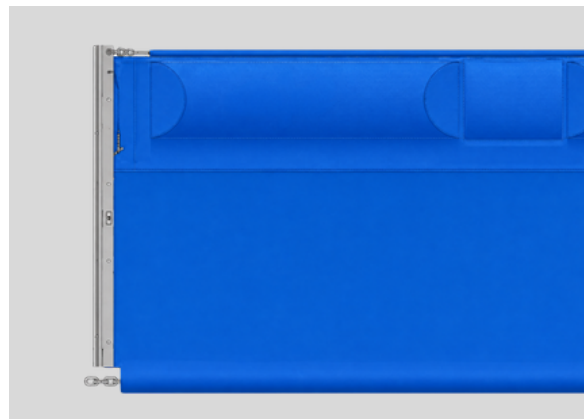


Sargassum Boom

Specifications

Overall Height:	31 in. or 37 in.
Length:	50 ft., 100 ft., Custom Lengths Available
Float Freeboard:	12 in.
Skirt Draft Depth:	19 in. and 24 in.
Fabric Material:	22 oz. Impermeable Reinforced PVC
Top Tension Cable:	5/16 in. Galvanized or Stainless Steel
Bottom Ballast Chain:	5/16 in. Galvanized or Stainless Steel
Section Connectors:	ASTM Universal Slide Connector
Hardware:	Galvanized/Stainless Steel Hardware
Anchor Point:	50 ft. On Center
Color Options:	Blue Standard

(Green, Black, Yellow, and Orange Available by Request)

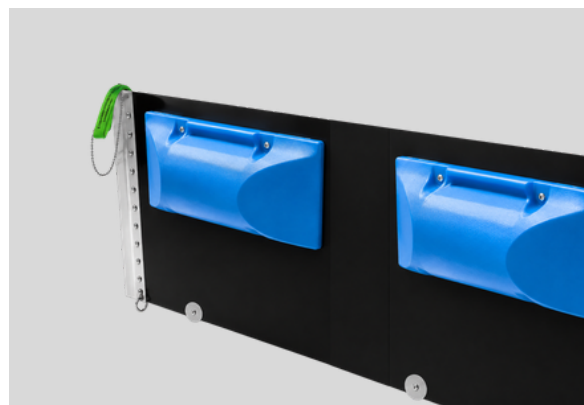


PERM Boom

High buoyancy, long-term solution for containment of many forms of floating debris and seaweed in areas where long term solutions may be needed. They are able to withstand extensive use in calm open water conditions, presenting significant cost savings.

Specifications

Available Height:	18 in., 24in., 36in.
Length:	50 ft., 100 ft., Custom Lengths Available
Float Type:	High-Impact Bolt-On Floats
Fabric Material:	175 oz. PVC Coated Polyester
Connectors:	ASTM Universal Slide Connector
Bottom Ballast:	Ballast Weights
Float Color Options:	Blue, Orange, Black



Tips to Reduce Cleanup and Costs

We manufacture professional-grade marine containment systems designed specifically for demanding coastal environments.

Benefits Include:

- Manufactured in the USA with domestic and global parts
- Marine-Grade Construction
- Custom Configurations
- Heavy-Duty Components for Long Service Life
- Engineering Support for Site-Specific Projects
- Products Designed for Resorts, Municipalities, Marinas, Ports, and Commercial Waterfronts



Our Seaweed Barrier systems are built specifically to control floating sargassum through containment, diversion, and deflection while withstanding challenging marine conditions. Systems must be pulled out of the water if a significant storm (Tropical Storm/Hurricane) is expected.



Ready to Protect Your Shoreline?

Whether you're managing a luxury resort, public beach, marina, or coastal development, implementing the right sargassum control strategy today can dramatically reduce cleanup costs tomorrow.

Contact Us to discuss your project and receive a customized recommendation based on your shoreline, water conditions, and seasonal sargassum activity.