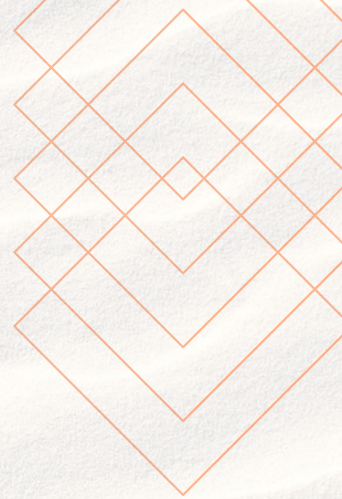




WAVEPLUS PRODUCTS





About Skytech Engineering

Skytech Engineering is a solutions provider specializing in environmental protection, sustainability, and innovative product development. Operating under the brand name WavePlus, we are committed to delivering high-quality coastal, marine, and eco-engineering products tailored to meet the evolving needs of industries, governments, and communities worldwide.

Based in the UAE, US, and Sri Lanka, our company proudly supplies a diverse range of advanced environmental solutions to clients across the Middle East, Asia, Europe, Australia, and the Americas.

Skytech Engineering is **ISO 9001:2015** certified by TÜV Nord, reflecting our commitment to quality, efficiency, and customer satisfaction.

We can also manufacture our products to meet any required standards, including **DOT** and other project-specific specifications.



Our Brands



Dedicated to serving the marine, coastal protection, and environmental engineering sectors. Our solutions are designed to address water-related challenges with durability, safety, and global compliance.



focuses on sustainable solutions for the horticulture, aquaculture, and urban greening industries. With a commitment to eco-friendly innovation and supports greener cities.

Our Vision

To become the most preferred and inspired solution provider to protect the environment for the present and future generations by supporting innovative environmental protective products and services.

Our Mission

To continuously develop and supply innovative environmental protective products and services at the highest quality standards and at competitive prices to conserve and restore the natural ecosystem.

WAVEPLUS GEO BAGS

WavePlus Geo Bags are high-performance geotextile containers designed for a wide range of hydraulic and environmental applications from coastal erosion control and shoreline protection to flood defense and embankment reinforcement.

These bags are engineered to endure extreme weather, strong currents, and heavy sunlight. With a large filling capacity and high tensile strength, WavePlus Geo Bags offer a durable, eco-friendly, and cost-effective solution for both marine and inland water management projects.



Why Choose WavePlus?

- Best quality materials
- Fully customizable solutions
- Fast production & delivery
- Trusted by clients worldwide

Applications

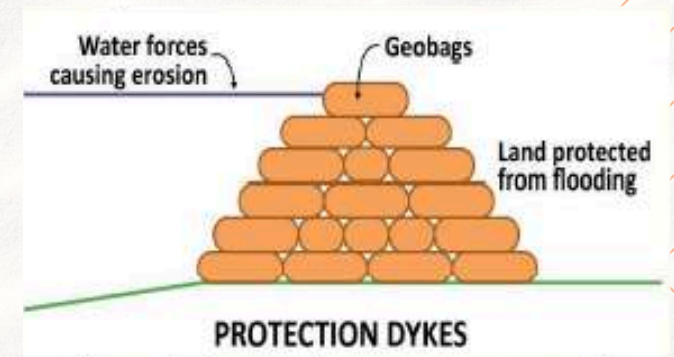
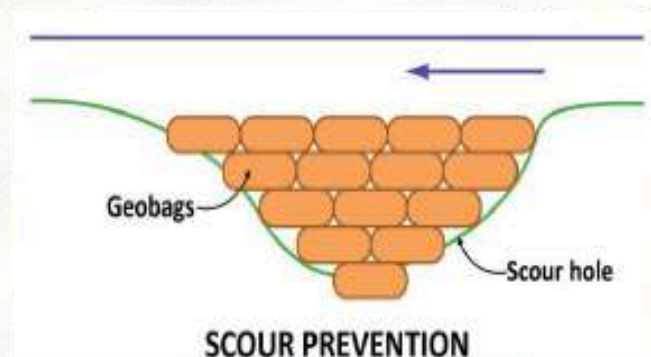
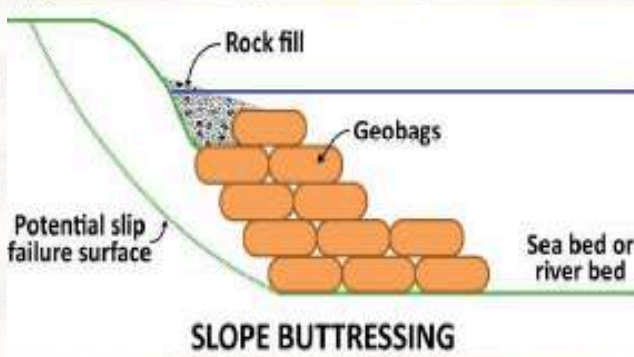
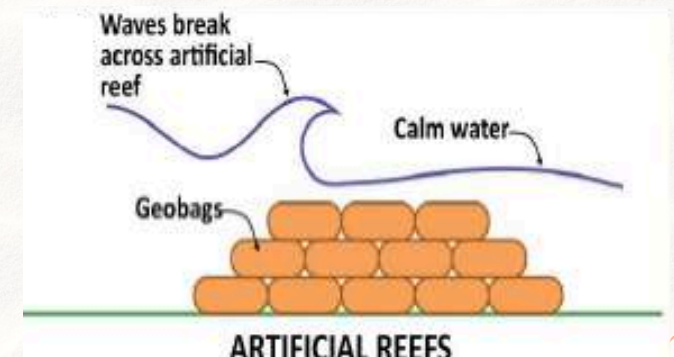
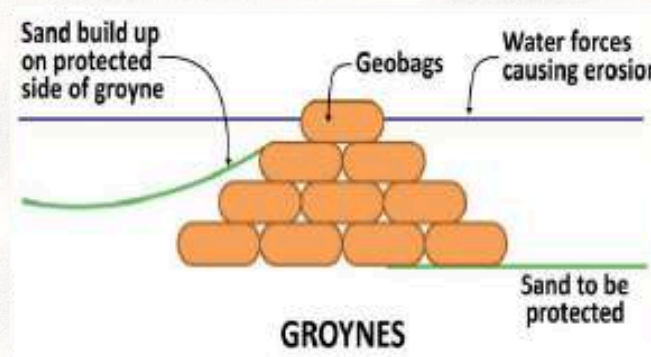
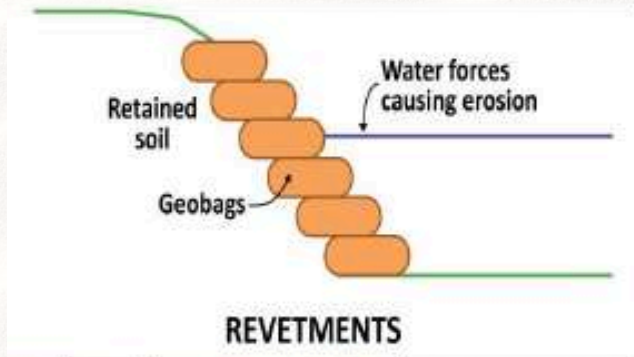
- Riverbank and canal lining
- Coastal erosion control
- Slopes stabilization
- Flood protection
- Scour Protection

Key Features

- Eco-Friendly
- Enhanced Strength & Durability
- High Wave Resistance
- Secure & Stable
- Optimal Ground Friction
- Simple Bag Closing System



Specifications			
Model	WavePlus 201	WavePlus 215	WavePlus 302
Dimensions (LXW)	200cm x 100cm	200cm x 150cm	300cm x 200cm
Fabric	1000gsm UV Stabilized Non-woven PP Fabric with an average tensile strength of 80kN/m (ISO 10319)		
Bag Closing	Lace Closing		



WAVEPLUS JUMBO BAGS

WavePlus Jumbo Bags are engineered geosynthetic solutions designed for coastal, marine, and environmental protection projects. Built for high-capacity containment and durability, they are ideal for shoreline protection, erosion control, dredging support, and emergency works.

With customizable sizes and fabrics, WavePlus Jumbo Bags provide contractors with efficient, reliable, and site-ready solutions for challenging marine and coastal environments.



Applications

- Shoreline and coastal protection
- Dredging support
- Temporary barriers
- Flood control or silt containment



Technical Specifications

Product	WavePlus Jumbo Bag
Material Options	PP (Polypropylene) PET (Polyethylene Terephthalate)
Material Type	Woven
Tensile Strength (kN/m)	PP: 105, 200 (105-200 kN/m) PET: 100, 150, 200 (100-200 kN/m)
Sizes (L × W × H)	1 - 5 m (length), 1 - 5 m (width), 0.5 - 2.5 m (height) - customizable
Capacity	500 - 5000 kg (depending on)
Key Features	High tensile strength UV & saltwater resistant



WAVEPLUS GEO TUBES

WavePlus Geo Tubes are manufactured with high-performance PP/PET geotextile material for a wide range of hydraulic and environmental applications. Designed to control erosion, reclaim land and sediment control.

Whether used for shoreline reinforcement, Breakwater or sludge dewatering, WavePlus Geo Tubes provide exceptional strength, filtration efficiency, and long-term durability.



Applications

- Coastal protection
- Dewatering of sludge and waste
- Land reclamation and breakwater
- Wetland and habitat restoration
- Flood control
- Industrial and mining sites

Work Procedure



Properties	Test Method	Units	HT 100x100	HT 200x200
Strength @ Ultimate (MD)	ISO 10319	kN/m	100	200
Strength @ Ultimate (CD)	ISO 10319	kN/m	100	200
Elongation (MD/CD)	ISO 10319	%	10±1/8±1	12±1/8±1
CBR Puncture	ISO 12236	kN	13	22
Pore Open Size O90	ASTM D4751	mm	0.45	0.40
Water Flow Rate	ISO 11058	l/m ² /s	15-20	15
UV Resistance at 500 hours	ASTM D 4355	% retained	85	85
Factory Seam Strength on Cir.	ISO 10321	kN/m	70	170
Color	Black			

WAVEPLUS SILT CURTAINS

WavePlus Silt Curtains are engineered turbidity barriers designed to contain and control the dispersion of suspended sediments in aquatic environments during dredging, reclamation, marine construction, and shoreline protection activities.

Constructed with high-strength permeable or impermeable geotextile fabrics, and supported by robust flotation and ballast systems, our silt curtains effectively isolate work zones, ensuring compliance with environmental regulations and minimizing impact on surrounding ecosystems.

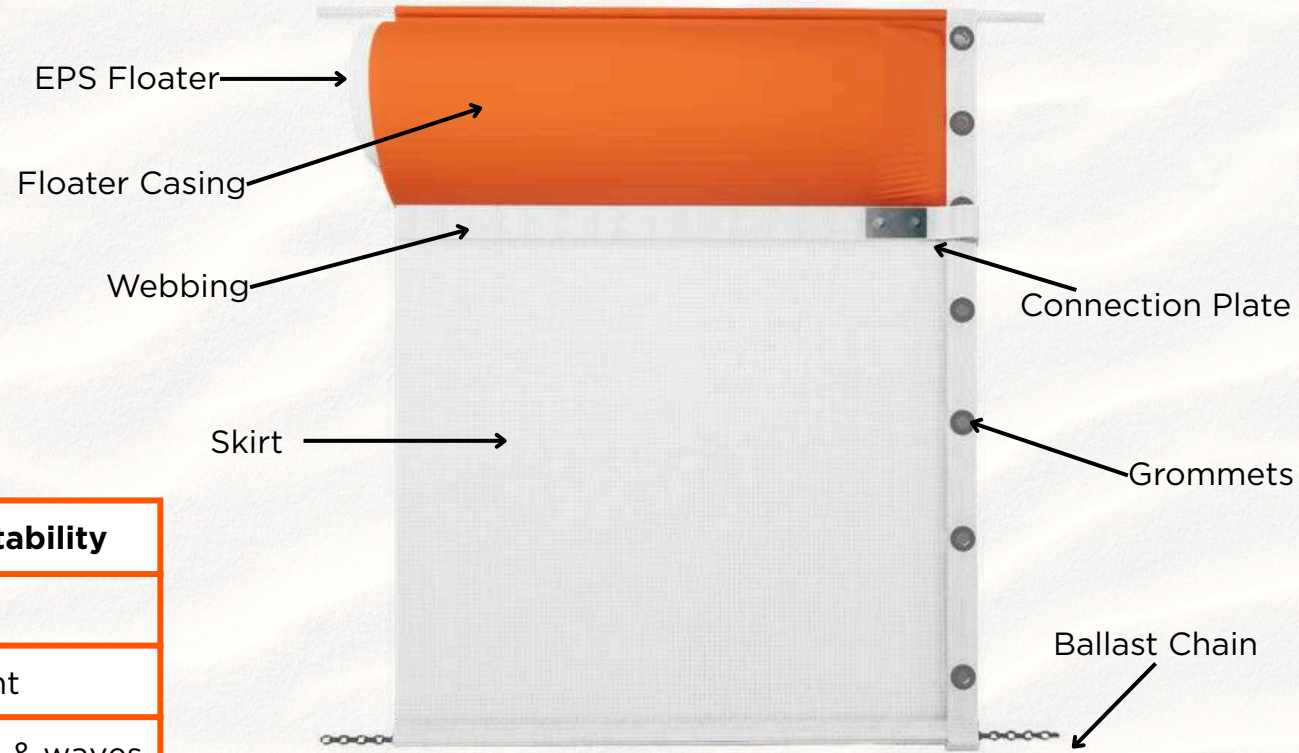


Key Applications

- Dredging operations
- Marine and coastal construction
- Shoreline and riverbank stabilization projects
- Bridge and pier construction
- Environmental restoration projects

Product Features

- High-strength geotextile fabric (permeable or impermeable)
- Durable flotation system with UV-resistant materials
- Galvanized steel ballast chain for effective anchoring
- Modular panels for ease of transport and installation
- Customizable depths and skirt lengths



Type	Application Condition	Flow Rate Suitability
Type I	Calm water (ponds, lakes)	Low current
Type II	Moderate flow (rivers, harbors)	Medium current
Type III	Open water / offshore	Strong current & waves

Model	WavePlus SC Type 1		WavePlus SC Type 2		WavePlus SC Type 3			
Floater Size	150mmx750		200mmx750	250mmx750	250mm	300mm		
Floater casing	610gsm UV stabilized PVC coated - Orange colour				1100gsm UV stabilized PVC coated - Orange colour			
Skirt	1m-6m		2m-4m	4-8m	up to 4m	4m-6m	5m-20m	8m-20m
Skirt material	21.5kN/m Non-Woven Polypropylene	100/100kN/m Woven Polyester	100/100kN/m Woven polyester	150/150kN/m Woven polyester	200/200kN/m Woven polyester			
Ballast Chain	6mm HDG (G43)		6mm HDG (G43)	8mm HDG (G43)	10mm HDG (G43)	12mm HDG (G43)		

WAVEPLUS OIL BOOMS

WavePlus Oil Booms are specially engineered for effective and reliable containment of oil spills, fuel leaks, and other hazardous liquid discharges in marine and industrial environments. Crafted from high-strength, UV-resistant materials, these oil spill booms ensure superior performance and long-lasting durability, even in harsh weather conditions.

By providing robust protection for the environment, project sites, and coastal areas, WavePlus Oil Booms play a critical role in marine oil spill response and containment operations worldwide.



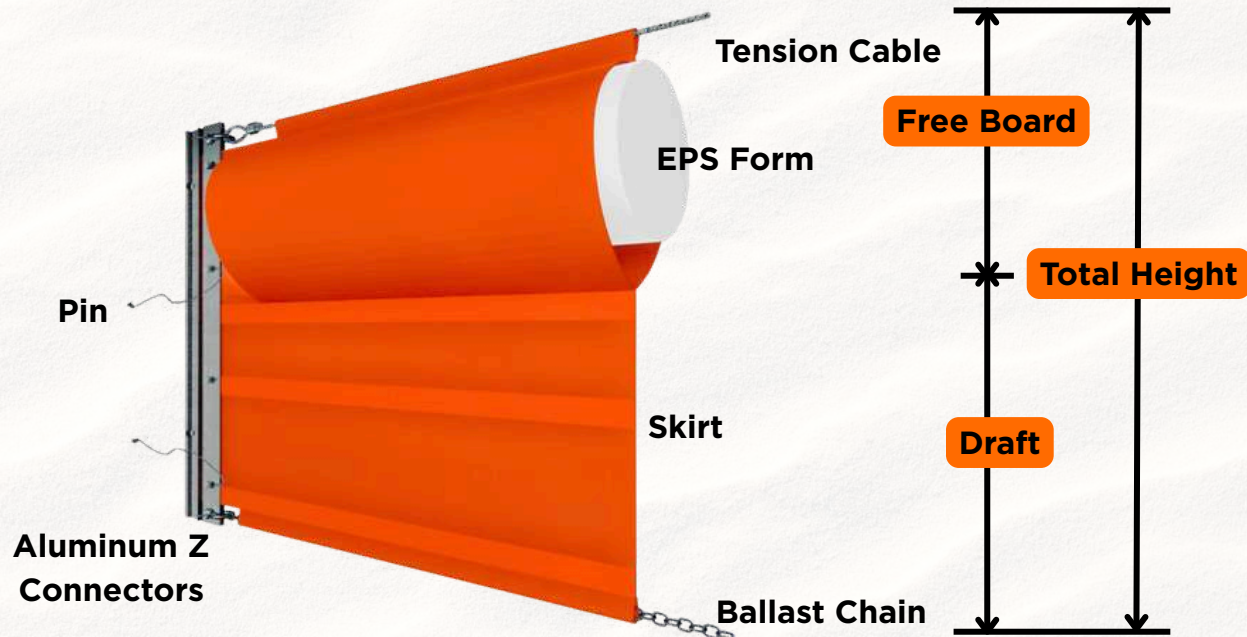
Applications

- Offshore oil rigs and platforms
- Ports and harbors
- Marine spills in rivers and lakes
- Environmental restoration projects

Key Features

- UV and chemical-resistant materials for long-lasting performance.
- Customizable lengths and sizes to fit project needs.
- Quick and easy deployment and retrieval.
- Suitable for various water conditions with adjustable floatation and ballast options.





Model	Boom 450	Boom 610	Boom 750	Boom 900
Application	Calm Waters	Ports/Harbors	Nearshore	Offshore/Heavy Duty
Fabric	610gsm UV Stabilized PVC Coated- Orange			1100gsm UV Stabilized PVC Coated- Orange
Freeboard	200mm	200mm	250mm	300mm
Draft	300mm	450 MM	510mm	600mm
Total Height	450mm	610mm	760mm	900mm
Floated Diameter	150mm	150mm	200mm	250mm
Floater material	EPS Form			
Connectors	Aluminum Z Connecters fitted with stainless steel nuts , bolts and toggle pins			
Ballast Chain-HDG (G43)	6mm-0.78kg/m	8mm- 1.37kg/m		10mm
Top Tension Cabel	8mm HDG			

WAVEPLUS BEACH SAFETY BOOMS



WavePlus Beach Safety Booms are expertly engineered to establish safe swimming zones, restrict boat access, and guide beachgoers within clearly designated areas. These beach safety booms provide reliable performance and long-term durability in coastal and marine environments.

WavePlus Beach Safety Booms play a crucial role in creating secure, structured environments for recreational water activities and beach management.

Why WavePlus Beach Safety Booms?

- **Enhanced Swimmer Safety**

help to reduce the risk of swimmers being swept away by rip currents, ensuring a safe and enjoyable experience for everyone.

- **Effective Jellyfish Protection**

Acts as a safety net to prevent jellyfish and debris from entering swimming zones.

- **Continuous Floater Design**

Provides smooth, uninterrupted visibility and better boundary demarcation. Clearly separates safe zones from boats/Jetskis.

- **Innovative Geo Bag Anchoring**

Ensures firm, eco-friendly anchoring that minimizes seabed impact.

- **Safe & Reliable**

Protects swimmers without harming wildlife.



Click the YouTube Icon to
Watch WavePlus Beach Safety Booms



Key Applications

- **Beaches**

Safe swimming zones for all visitors

- **Resorts & Water Parks**

Protects and enhances guest experience

- **Restricted Boating Areas**

Clearly marks no-entry zones

- **Safety Demarcation**

Defines boundaries for swimmers and water activities



Key Features

- **High-Visibility Floats & Knotless Netting**

Bright floaters above water and strong netting below for reliable protection.

- **Durable Materials**

Built to withstand harsh marine conditions.

- **Customizable**

Adaptable to different beach layouts and requirements.

- **Easy Deployment & Maintenance**

Quick and hassle-free setup and easy to maintain.

- **Innovative Geo Bag Anchoring**

Ensures firm, swimmer-friendly anchoring

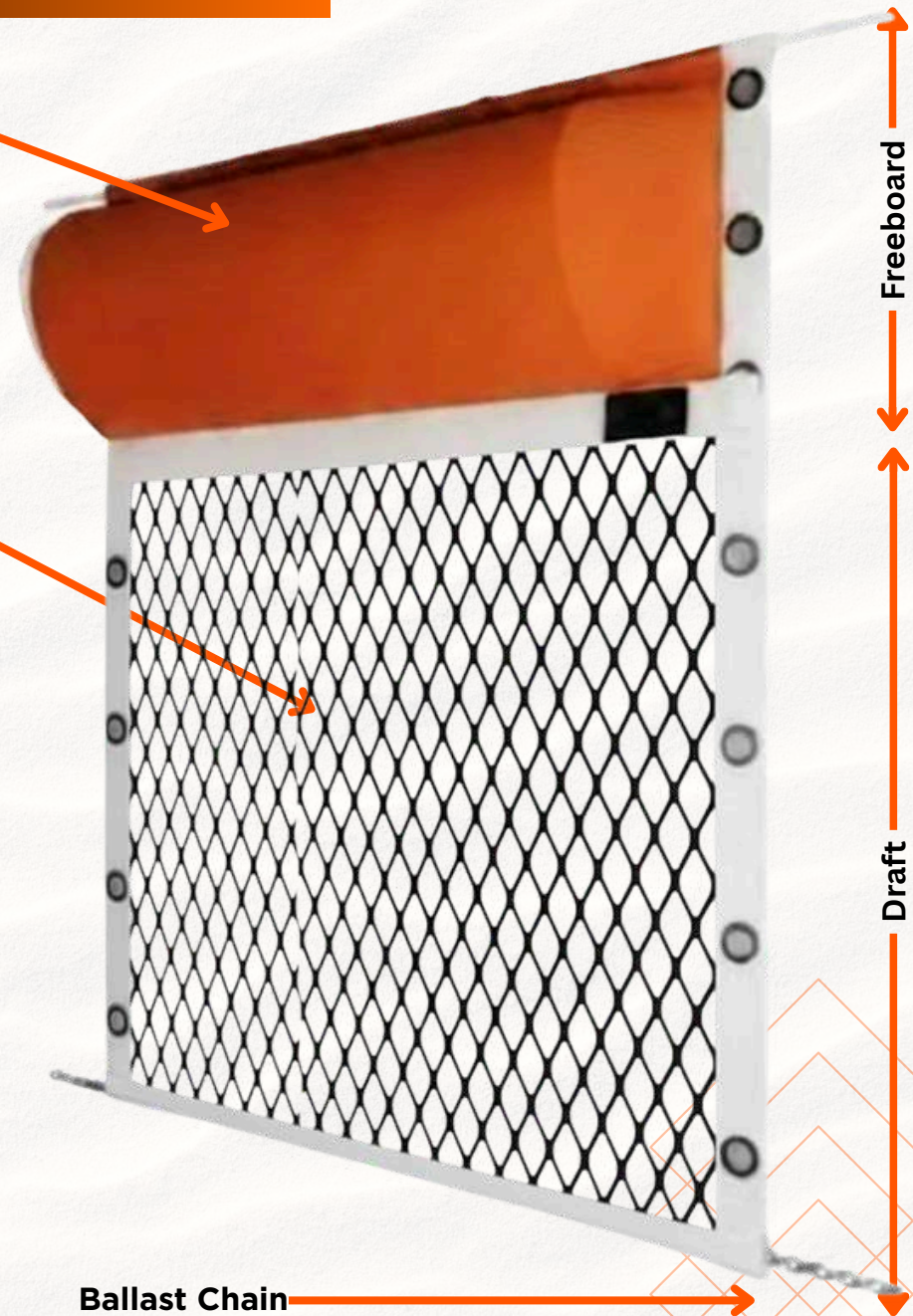
Ballast Chain

Technical Specifications



Floater Casing

Draft Material



Model	WavePlus Beach Safety Booms
Floater Casing	1100 GSM, UV Stabilized, PVC Coated, Tarpuline-Orange
Freeboard	350mm
Draft Material	Virgin Quality high tenacity HDPE knotless net with opening of 25mmx25mm
Draft	2m-5m
Floater Diameter	300mm
Anchoring	Geo Bag Anchoring

WAVEPLUS TRASH BOOMS



WavePlus Trash Booms are designed to contain and control floating debris, plastics, vegetation, and solid waste in water bodies.

These surface barriers are ideal for preventing the spread of waste in rivers, lakes, canals, reservoirs, and coastal zones protecting infrastructure, aquatic ecosystems, and public health.

Why WavePlus Trash Booms?

- **Continuous floating** design ensures no gaps for waste to escape.
- **Strong knotless netting** stops debris from passing underneath.
- **High strength and stability** even in flowing or heavy-loaded water.
- **Easy to install and maintain**, with modular sections.
- **Custom-made** to suit canals, rivers, lakes, and harbours.
- Built for long-term use with **durable marine-grade materials**.
- A **proven solution** for clean and safe waterways.

Key Applications

- Canals and rivers
- Lakes and reservoirs
- Harbours and ports
- Stormwater outlets
- Industrial and construction sites

Click the YouTube Icon to Watch
WavePlus Trash Booms

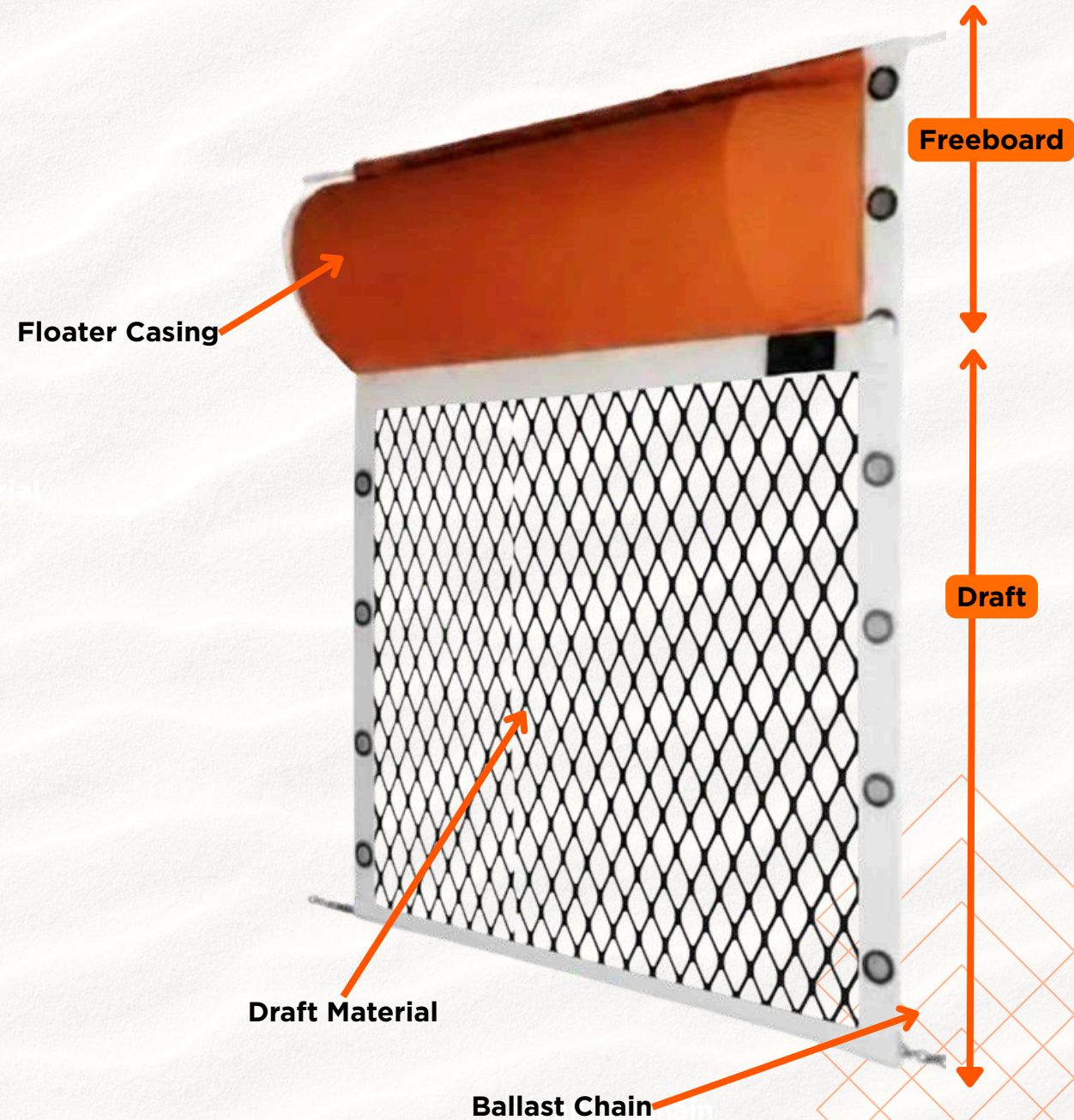


Key Features

- High-visibility float line for safety
- Robust net barrier under water
- Corrosion and UV-resistant materials
- Modular sections for flexibility
- Reliable connectors for stability

Technical Specifications

Model	WavePlus Trash Booms
Floater Casing	1100 GSM, UV Stabilized, PVC Coated, Tarpuline-Orange
Freeboard	350mm
Draft Material	Virgin Quality high tenacity HDPE knotless net with opening of 25mmx25mm
Draft	2M-5M
Floater Diameter	300mm
Ballast Chain	8mm



WAVEPLUS L-SHAPE FLOOD BARRIERS



The WavePlus L-Shape Flood Barrier is a self-supporting, modular flood protection solution engineered for rapid deployment and dependable performance. Its space-efficient design allows easy setup without external support, making it ideal for both emergency and long-term applications.

Crafted from durable materials and designed for versatility, this barrier is suitable for residential, commercial, and industrial flood defense—especially in tight urban environments or uneven terrains.

The WavePlus L-Shape Flood Barrier offers fast, flexible, and effective protection against unexpected flooding—anywhere, anytime.

Key Advantages

- No power or water required - fully mechanical
- Freestanding design - no anchoring needed
- Foldable and rollable for easy transport and storage
- Modular design - connect multiple units seamlessly
- Flame retardant and UV-protected fabric
- Reflective warning strips for high visibility
- Stainless steel fittings - corrosion-resistant
- Wash cotton at base to minimize leakage
- Single-person deployment
- Works on all terrains, including corners

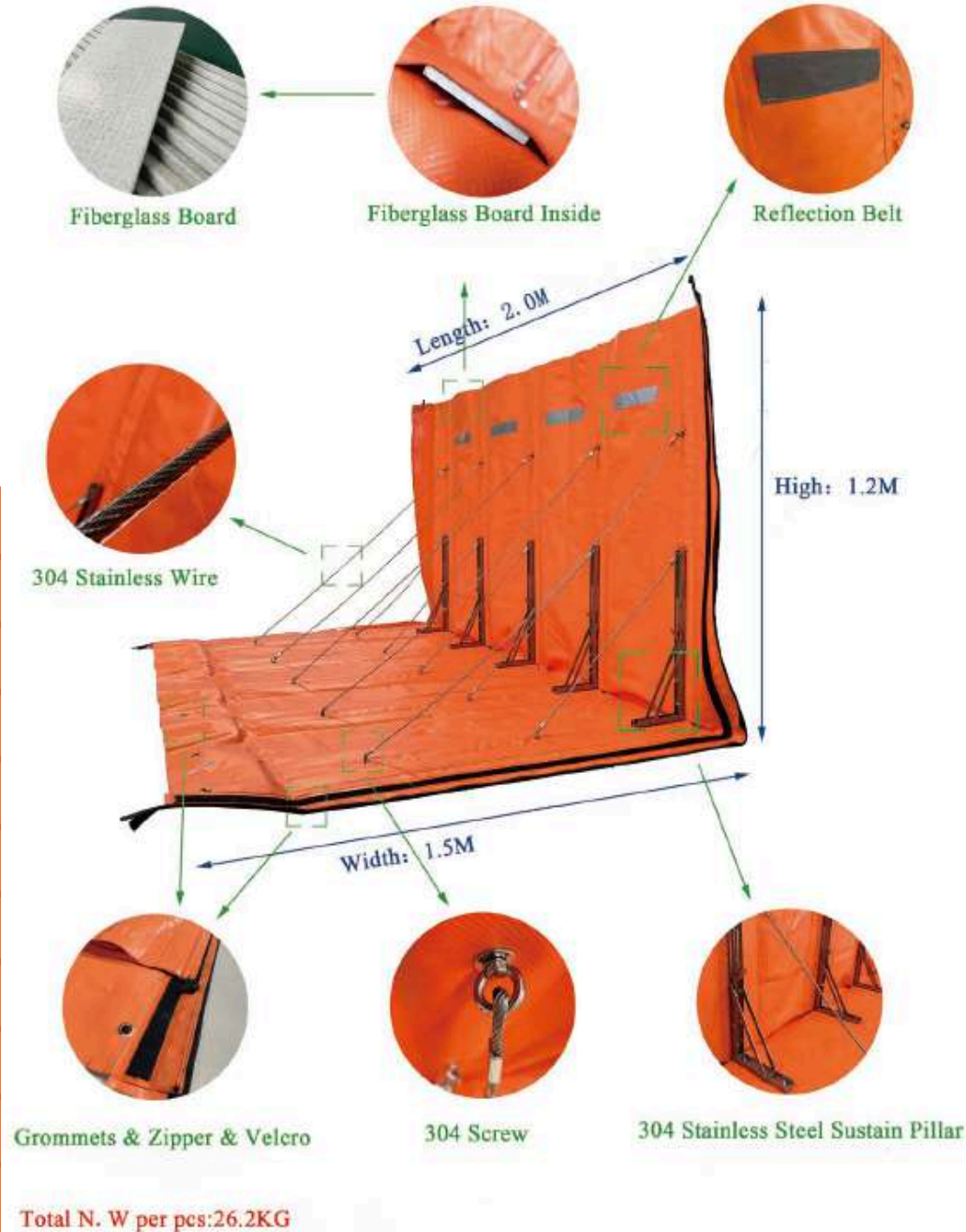
Applications

- Homes & Basements
- Warehouses & Storage Areas
- Urban Infrastructure
- City Streets
- Industrial and Commercial Facilities





Parameter	Details
Color	Orange
Reflective Strap	Grey
Material	PVC-coated tarpaulin + stainless steel accessories
Thickness	1.5 mm
Temperature Range	-30°C to +85°C
Fabric Properties	Flame retardant, UV protection
Base	Wash cotton to prevent leakage
Design	Modular, foldable, rollable
Standard Size	Customizable
Deployment	One-person operation



WAVEPLUS FLOOD GATE



The WavePlus Flood Gate is a quick-deploy barrier designed to seal off doorways, entrances, and access points from floodwaters. Built for simplicity and strength, it provides instant protection for both residential and commercial properties without the need for permanent installation.

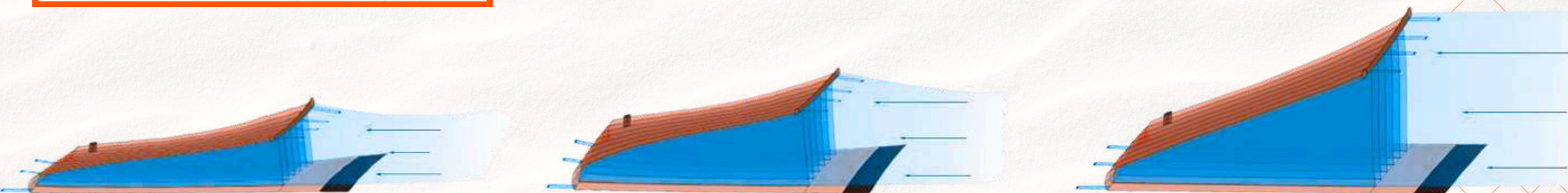
Perfect for use in homes, offices, shops, warehouses, and underground access points, the WavePlus Flood Gate can be easily installed by a single person within minutes – no tools or technical know-how required.

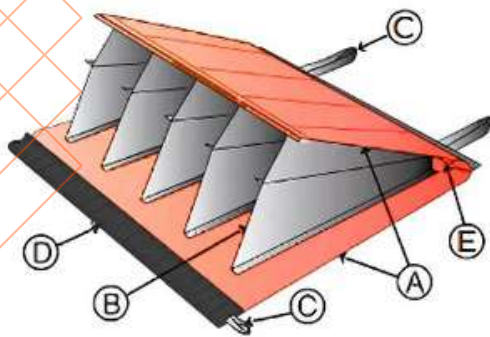
Applications

- Home entrances and garage doors
- Retail shop fronts
- Warehouse roller shutters
- Emergency building exits
- Basement doorways
- Utility rooms and service entries

Whether it's a sudden downpour or a rising tide, WavePlus Flood Gates provide a first line of defense you can count on. Designed for repeat use and long-term value, it's the ideal choice for protecting high-risk access areas with minimal disruption to daily operations.

Water accumulates inside the barrier and exerts pressure on the bottom of the fabric, which keeps the barrier in place. The speed or direction of the incoming water is not important, as it is the water pressure that causes the barrier to open up.





A Polyester fabric coated with super heavy-duty abrasion resistant PVC suitable for use on all types of surfaces.

B Stretched partitions made of 100% woven polyethylene

C Polypropylene straps to ease in handling

D Galvanized metal plate ballast weights held in polyester netting sewn to the hypotenuse water barrier.

E Open area behind partition to allow for water to flow through evenly



Model	WP FG 1	WP FG 2	WP FG 3	WP FG 4
Length	2m	3m	6m	9m
width	1.3m	1.3m	1.5m	1.5m
Height	0.35m	0.35m	0.6m	0.6m
Weight	7kg	10kg	20kg	30kg

WAVEPLUS FLOOD TUBE



The WavePlus Flood Tube is a rapid-deployment barrier designed to protect properties and infrastructure from sudden floodwaters. Made from high-strength PVC and engineered for reusability, this water-filled barrier is ideal for temporary or emergency flood protection. It adapts to uneven surfaces and provides continuous coverage with modular connectivity.

Whether it's for urban streets, construction sites, riverbanks, or property perimeters, Flood Tubes are a reliable alternative to traditional sandbags — lighter, faster, and easier to deploy.



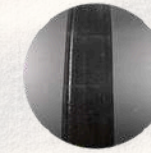
Applications

- Residential and commercial property protection
- Perimeter defense for warehouses or basements
- Roadway and parking lot flood control
- Temporary levees for riverbanks and canals
- Emergency flood response and disaster zones
- Construction site water diversion

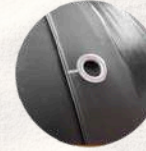
Inlet (Size Optional)



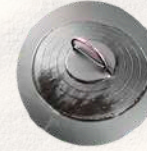
High Frequency Heat Sealing



Grommets



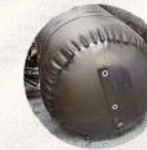
D-Ring



Handle



Connecting A



Connecting B



Outlet



Model	Size (Diameter x Length)	INLET PCS	OUTLET PCS	Net Weight (KG/Per pcs)
WP FT 1	DIA: 30 CM x L: 30 M	1	1	60
WP FT 2	DIA: 30 CM x L: 50 M	1	1	104
WP FT 3	DIA: 50 CM x L: 30 M	1	1	104
WP FT 4	DIA: 50 CM x L: 50 M	1	1	173
WP FT 5	DIA: 100 CM x L: 30 M	1	1	213
WP FT 6	DIA: 100 CM x L: 50 M	1	2	352
WP FT 7	DIA: 120 CM x L: 30 M	1	2	258
WP FT 8	DIA: 120 CM x L: 50 M	1	2	424





LET'S DISCUSS YOUR PROJECT!

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Customizable

Best Quality

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