



# 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 be a global leader in environmental engineering products by consistently offering quality, value, and customized solutions that shape a greener, safer future.**

#### Our Mission

**To protect and preserve natural environments through innovative, reliable, and cost-effective engineering solutions that support ecological sustainability and resilience.**





# 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

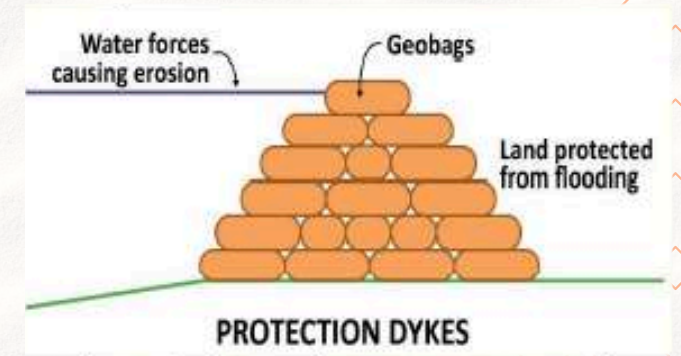
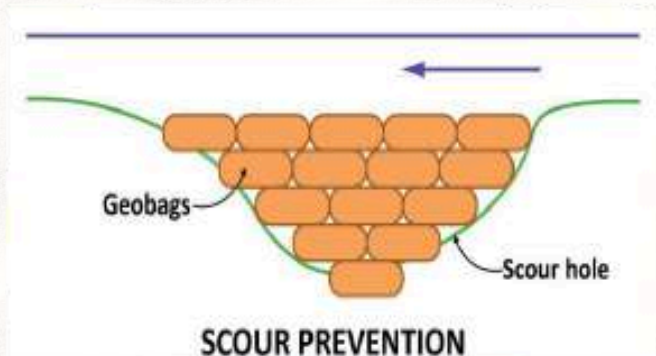
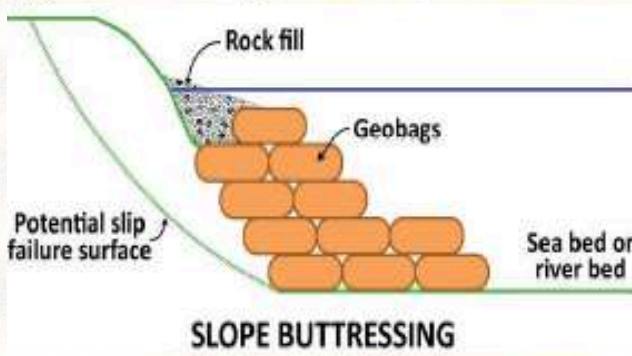
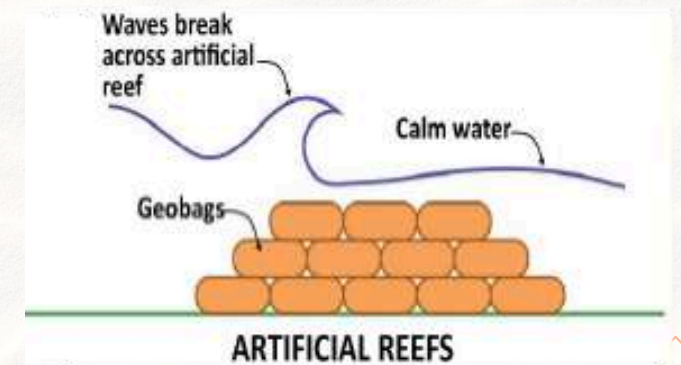
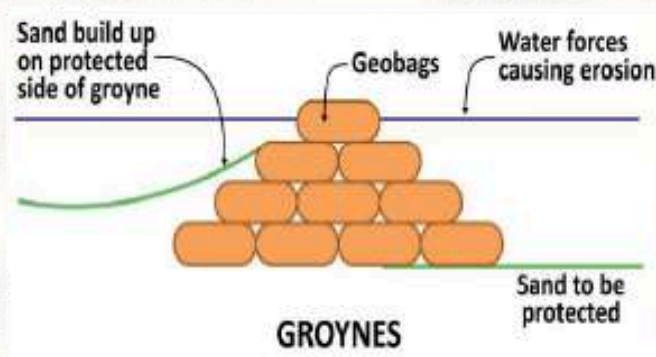
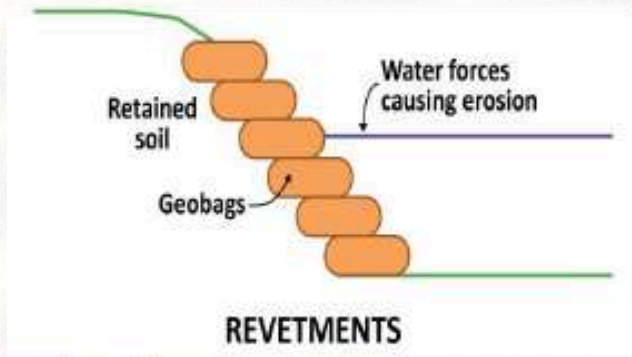






### Specifications

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 GEO TUBES

WavePlus Geo Tubes are manufactured with high-performance PP 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







1. Geo tube Positioning



2. Slurry Filling



3. Sediment Settlement & Drainage



4. Completion



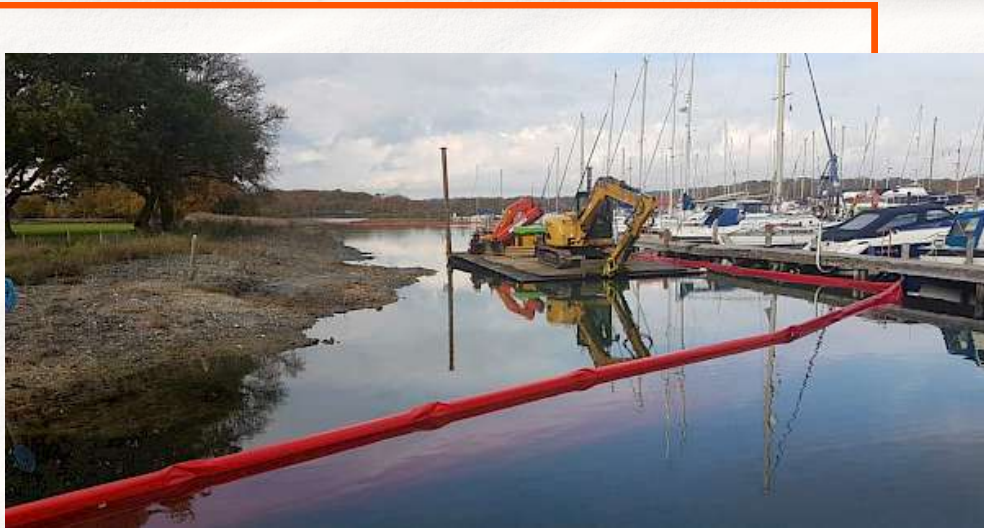
Properties	Test Method	Units	HT 100x100	HT 200x200
Strength @ Ultimate (MD)	ISO 10319	kN/m	100	200
Strength @ Ultimate (CD)	ISO 10319	kN/m	100	200
Elongation (MD/CD)	ISO 10319	%	10±1/8±1	12±1/8±1
CBR Puncture	ISO 12236	kN	13	22
Pore Open Size O90	ASTM D4751	mm	0.45	0.40
Water Flow Rate	ISO 11058	l/m <sup>2</sup> /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

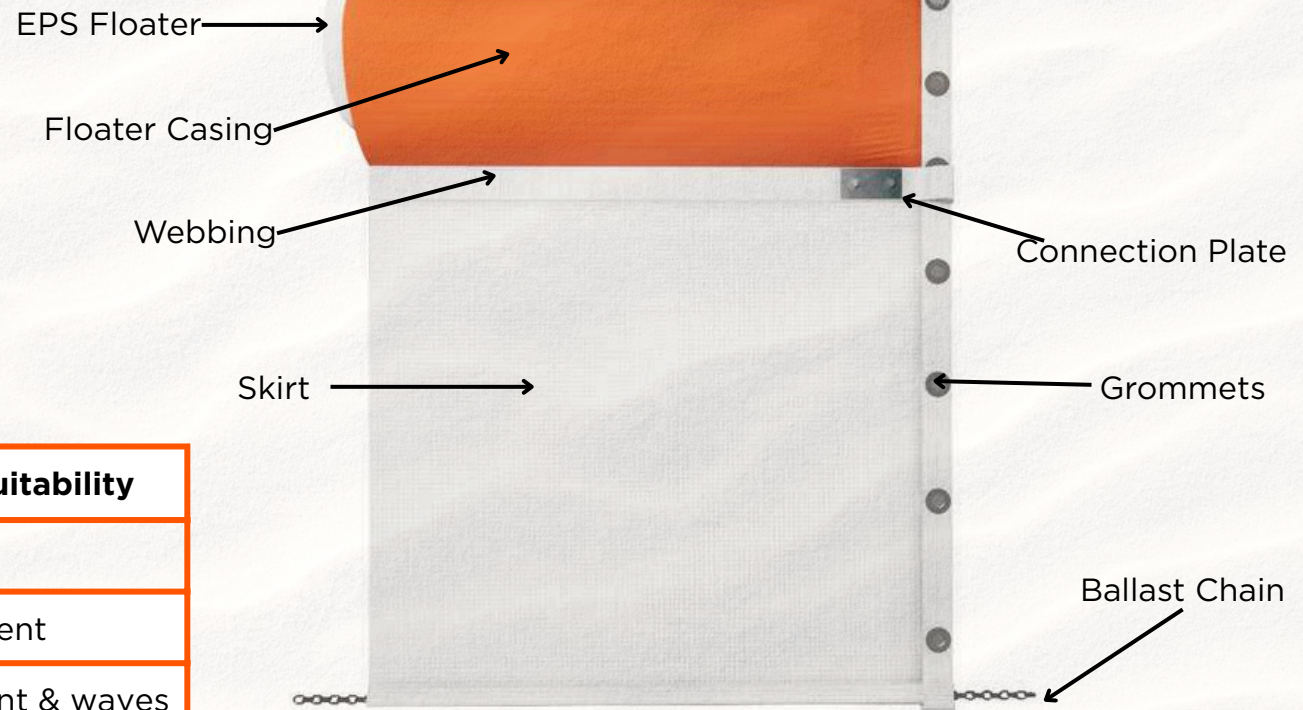
- Dredging operations
- Marine and coastal construction
- Shoreline and riverbank stabilization projects
- Bridge and pier construction
- Environmental restoration projects

## 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	150mmx600		200mmx600	250mmx800	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	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

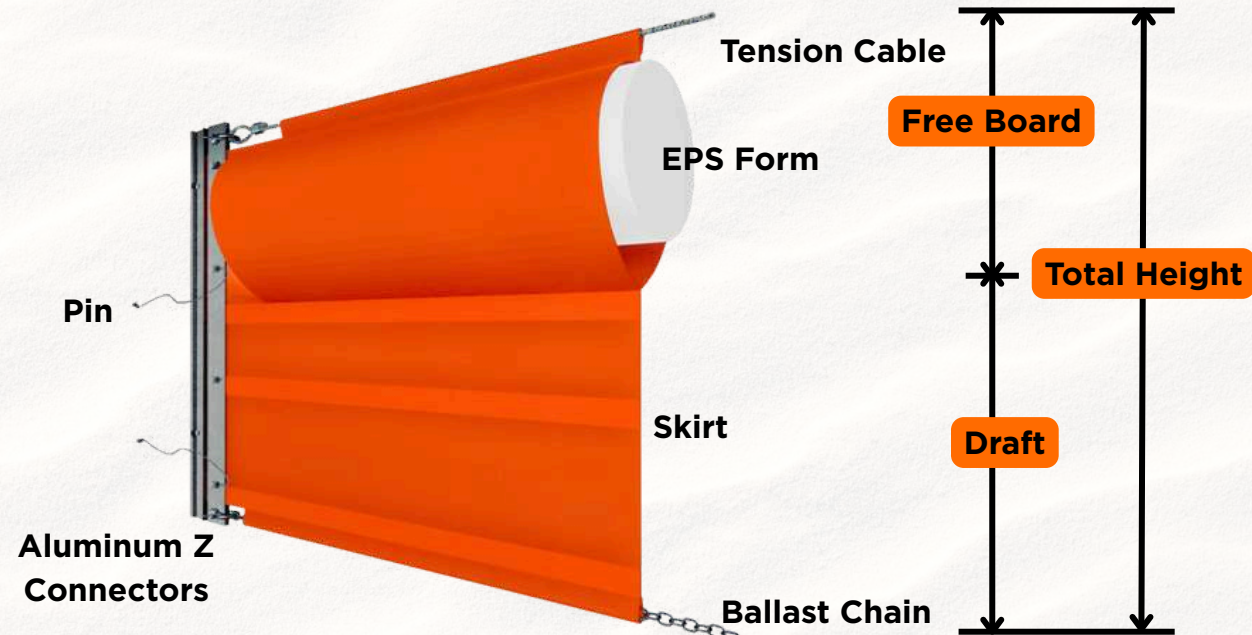
- Offshore oil rigs and platforms
- Ports and harbors
- Marine spills in rivers and lakes
- Environmental restoration projects

## 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 Connectors 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.

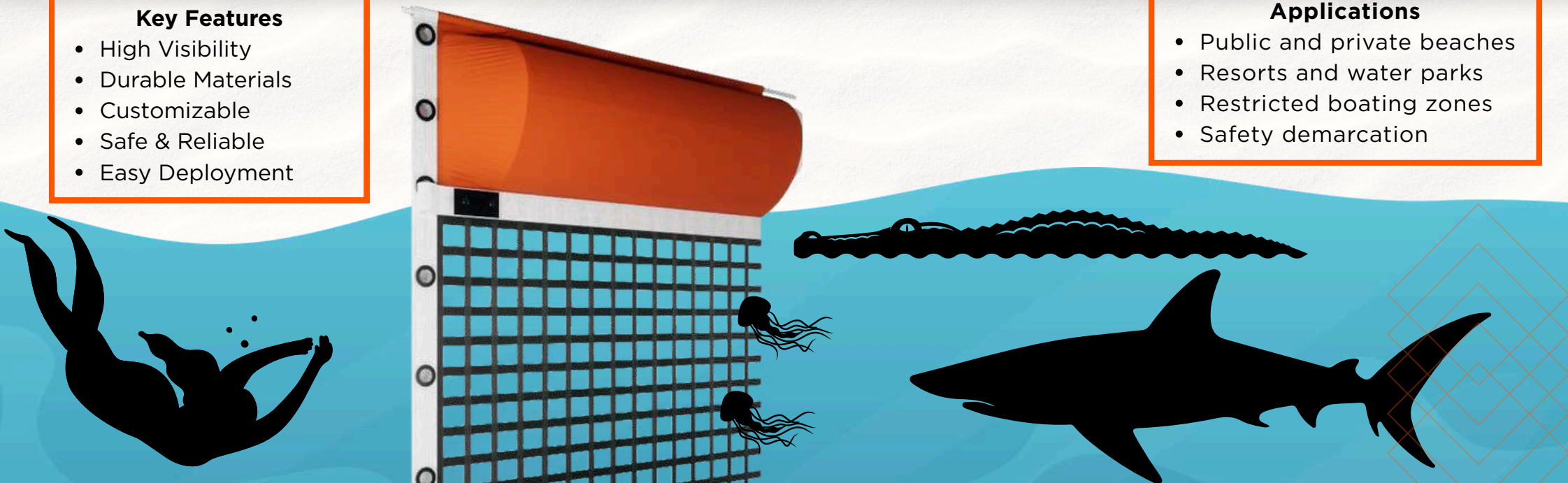
WavePlus Beach Safety Booms play a crucial role in creating secure, structured environments for recreational water activities and beach management.

## Key Features

- High Visibility
- Durable Materials
- Customizable
- Safe & Reliable
- Easy Deployment

## Applications

- Public and private beaches
- Resorts and water parks
- Restricted boating zones
- Safety demarcation

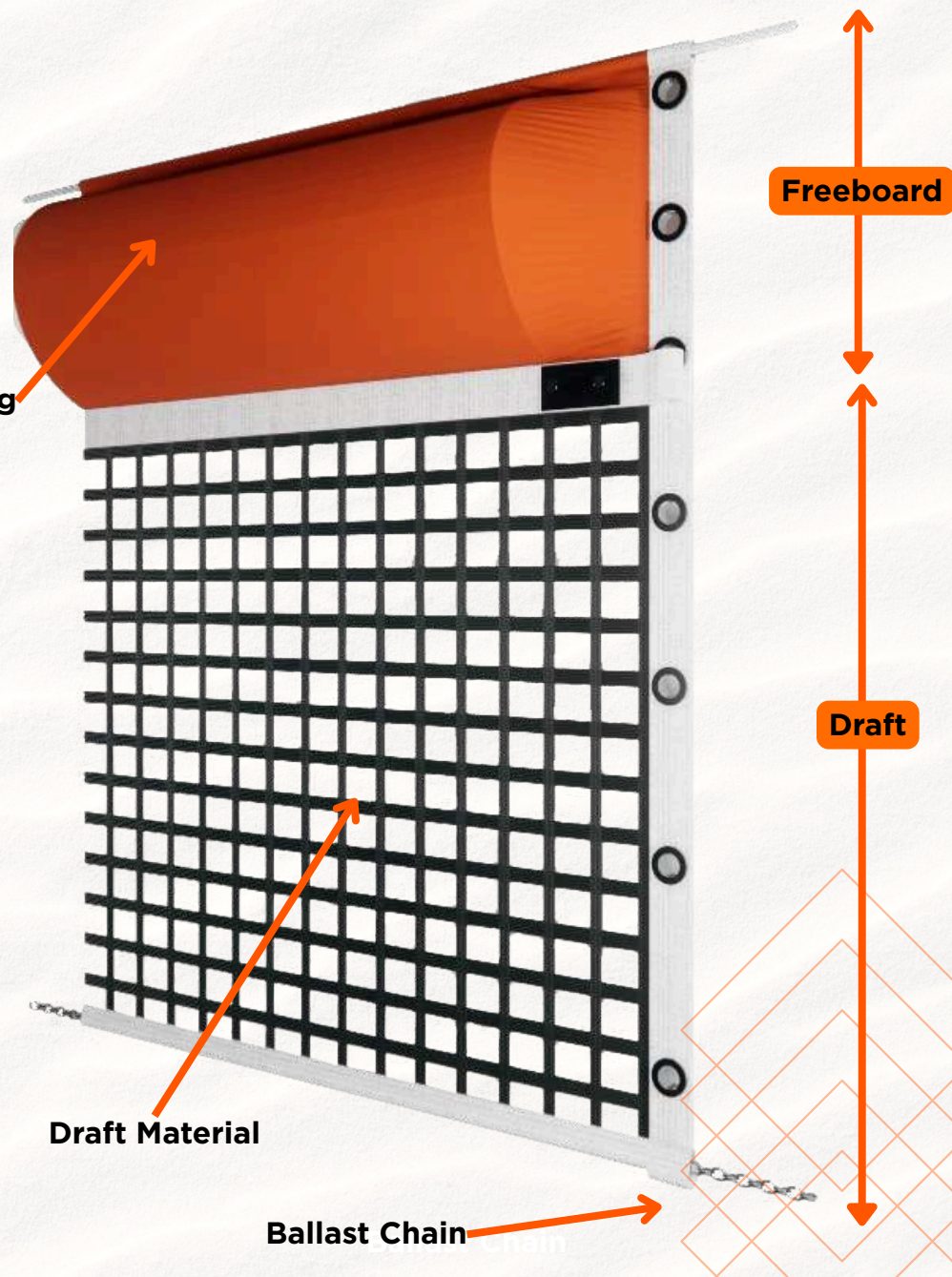






Floater Casing

Material



Model	WavePlus Trash Boom
Floater Casing	1100 GSM UV Stabilized PVC Coated- Orange
Freeboard	350mm
Draft Material	100/100kN/m PET Net
Draft	2m-5m
Floated Diameter	300mm
Ballast Chain	8mm HDG (G43)



# 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.

## Key Features

- Built with high-strength, UV-stabilized materials.
- Available in various lengths, and net types.
- Easy to deploy, maintain, and clean.
- Effective in static and flowing water environments.

## Applications

- Floating waste control in rivers and canals
- Stormwater and runoff debris collection
- Trash containment near bridges, dams, and outfalls
- Pollution control in urban waterways

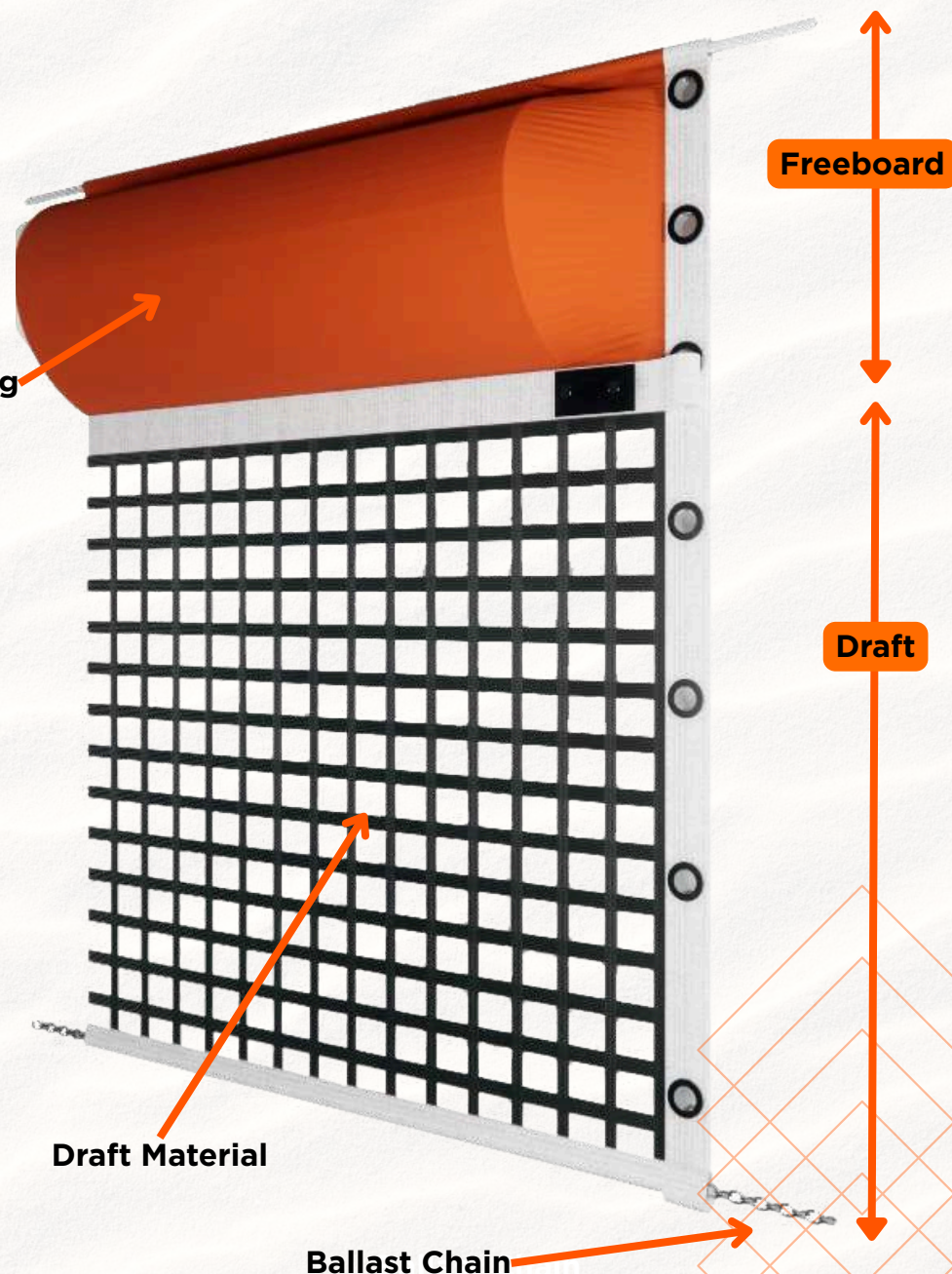






Draft Material

Model	WavePlus Trash Boom
Floater Casing	1100 gsm UV Stabilized PVC Coated- Orange
Freeboard	350mm
Draft Material	100/100kN/m to 300/300kN/m
Draft	2m-5m
Floated Diameter	300mm
Ballast Chain	8mm HDG (G43)





# 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

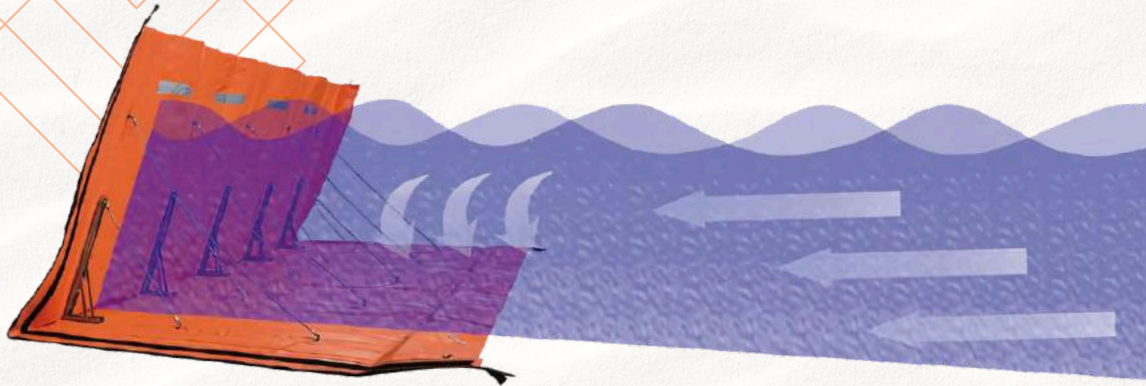
- No power or water required – fully mechanical
- Freestanding design – no anchoring needed
- Foldable and rollable for easy transport and storage
- Modular design – connect multiple units seamlessly
- Flame retardant and UV-protected fabric
- Reflective warning strips for high visibility
- Stainless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

## Applications

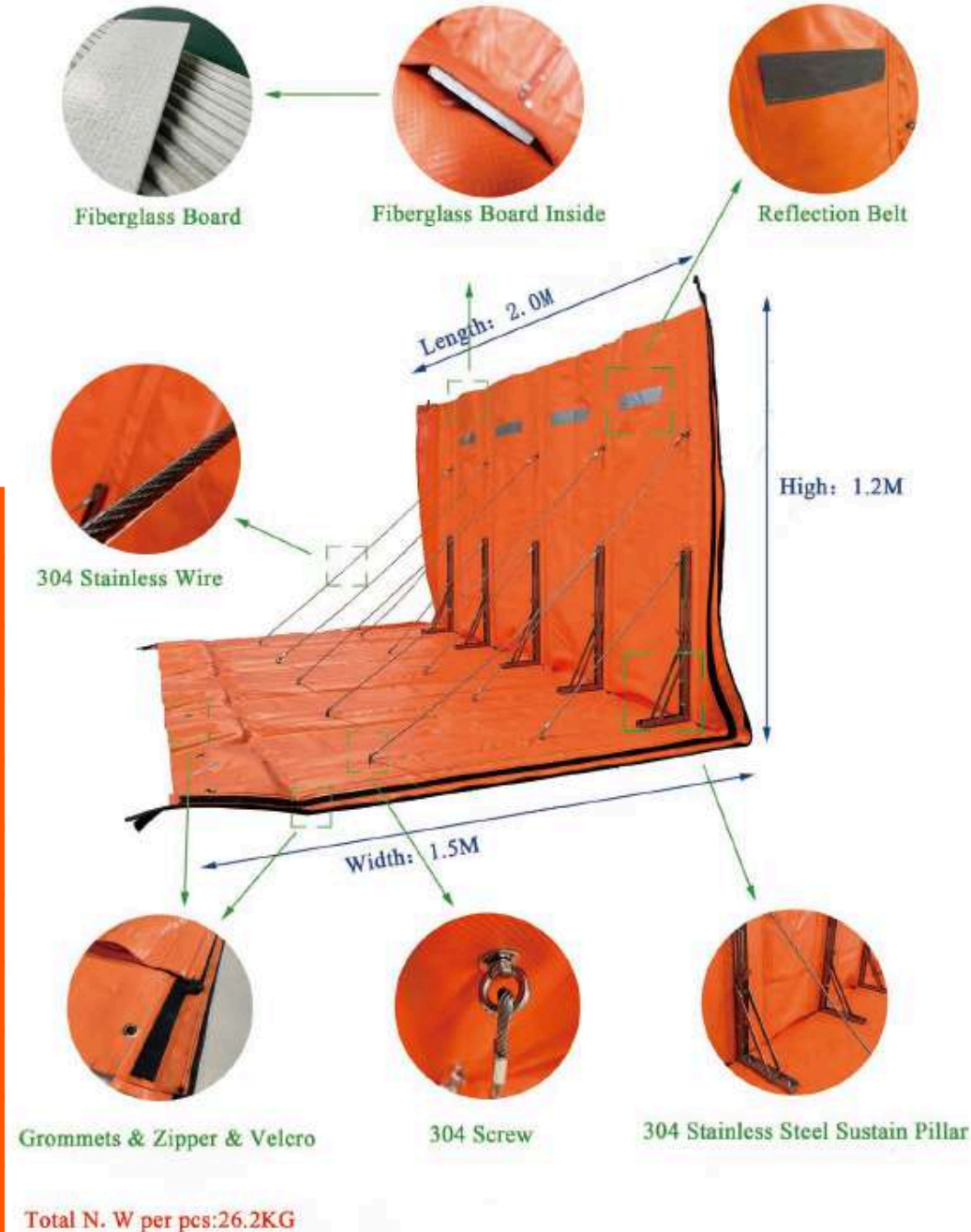
- Homes & Basements
- Warehouses & Storage Areas
- Urban Infrastructure
- City Streets
- Industrial and Commercial Facilities





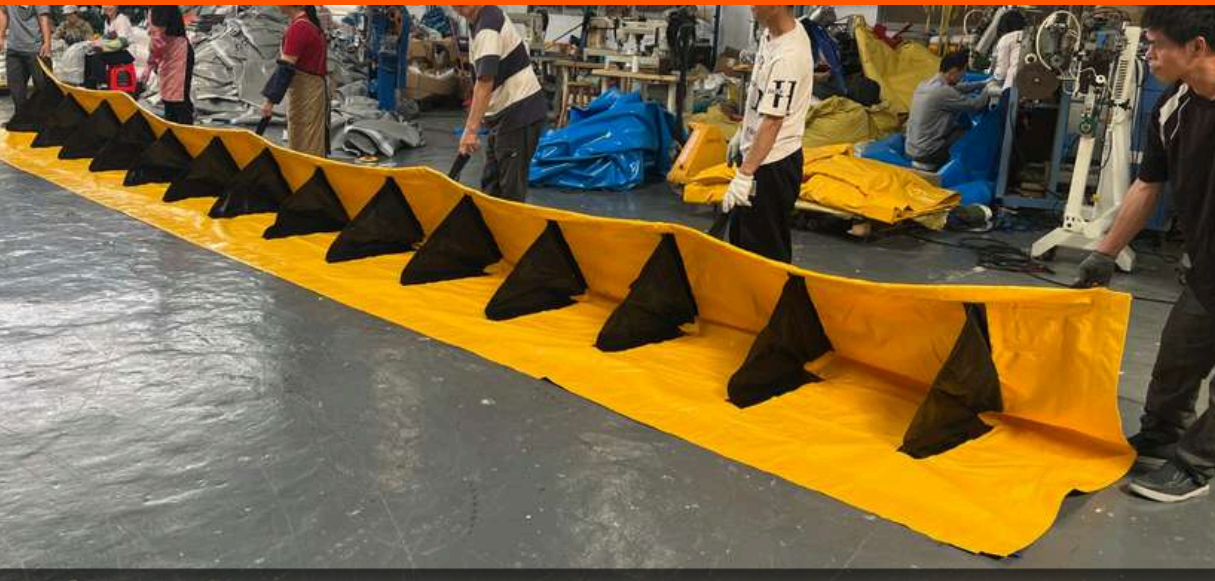


Parameter	Details
Color	Orange
Reflective Strap	Grey
Material	PVC-coated tarpaulin + stainless steel accessories
Thickness	1.5 mm
Temperature Range	-30°C to +85°C
Fabric Properties	Flame retardant, UV protection
Base	Wash cotton to prevent leakage
Design	Modular, foldable, rollable
Standard Size	Customizable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

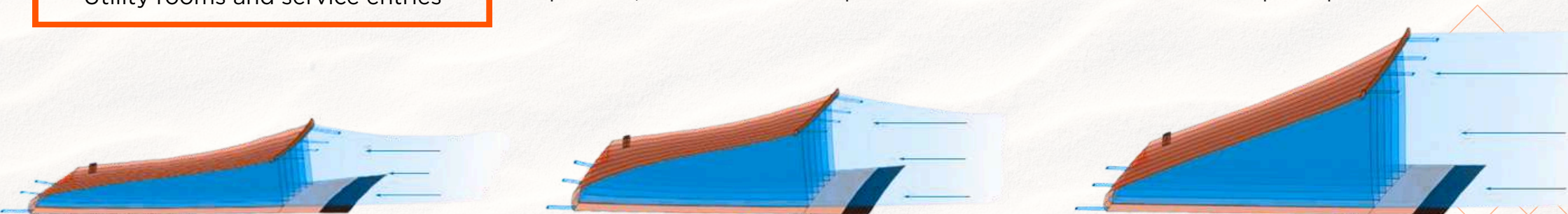
Perfect for use in homes, offices, shops, warehouses, and underground access points, the WavePlus Flood Gate can be easily installed by a single person within minutes — no tools or technical know-how required.

## Applications

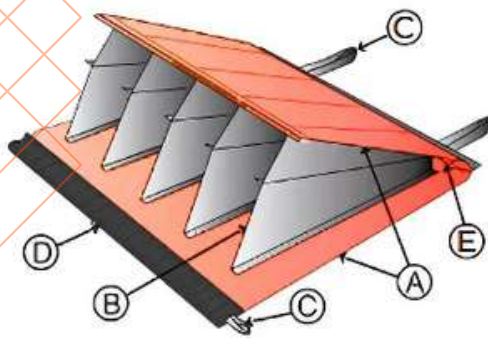
- Home entrances and garage doors
- Retail shop fronts
- Warehouse roller shutters
- Emergency building exits
- Basement doorways
- Utility rooms and service entries

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

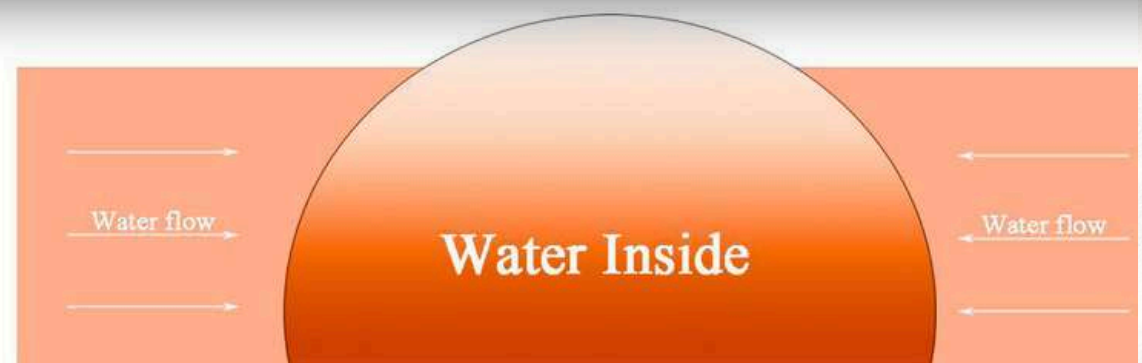
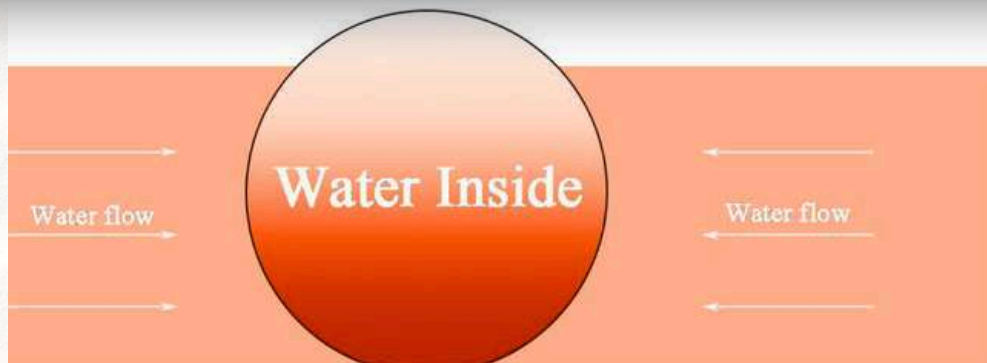


# WAVEPLUS FLOOD TUBE



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

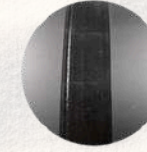
- Residential and commercial property protection
- Perimeter defense for warehouses or basements
- Roadway and parking lot flood control
- Temporary levees for riverbanks and canals
- Emergency flood response and disaster zones
- Construction site water diversion

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

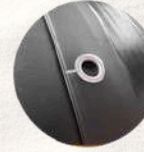
Inlet (Size Optional)



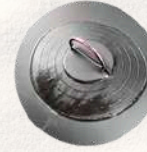
High Frequency Heat Sealing



Grommets



D-Ring



Handle



Connecting A



Connecting B



Outlet







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