



**Tabarestan Plastic Complex**



## > Introduction to Floating Dock

Polyethylene floating docks represent a new generation of marine infrastructure, produced using high-density polyethylene (HDPE). With a modular design and multiple interconnection capability, these docks allow for quick installation, easy relocation, and phased expansion. The materials used in their construction are resistant to sunlight, corrosion, salt, and chemicals, ensuring a very long service life.

Due to their intelligent design and lightweight structure, polyethylene docks are widely used across various industries including recreation and tourism, fisheries, marine industries, commercial ports, military bases, and even research projects. Their non-slip surface, high stability in waves, and suitable load-bearing capacity make them an ideal option for all types of aquatic environments. Custom designs and the ability to install additional accessories such as railings are among the other advantages of this advanced system.

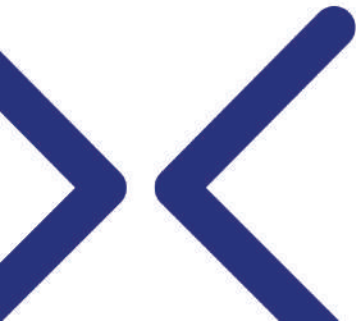


## > Floating Dock (Blow Molding)

The ease of installation and assembly of the dock parts has made it easy to use in different seasons of the year.

The additive used in the polymer structure of the pier dock protects it against atmospheric changes and especially the sun's destructive ultraviolet rays. Each square meter of the dock can carry a static load of 360 kg.

Due to the use of small parts, the docks or floating islands can be designed in various shapes and dimensions based on the customer's taste (customized).





## Dock's Technical Specifications

- Static load capacity: 450 kg, higher than rotationally molded docks.

### Advantages of Blow Molding Docks:

- Higher strength due to the use of High Molecular materials
- Faster production compared to rotational molding
- Faster installation with less manpower
- Higher buoyancy

### Information Chart

Color	Average Thickness	Buoyancy Force	Total Weight	Dimensions	Raw Materials
white	5-6mm	450kg	24kg	50*100*100 cm	High Density Polyethylene (HDPE)





## Floating Dock (Rotational Molding)

Rotomolded floating docks are produced using rotational molding technology in dimensions of 50×50 cm with a height of 40 cm.

Every four pontoons joined together form a rectangular block with dimensions of 40×100×100 cm.

Each square meter of these docks can bear a static load of up to 360 kg.

Each floating pontoon has four lugs for connection to other pontoons, which are joined using a part called a pin.

To increase impact resistance and enable boat mooring, bumpers and hooks are used along the sides of the dock.

The simplicity of installation and disassembly allows these docks to be used easily throughout the year.

The additives used in the polymer structure protect the docks from weather changes and particularly from the harmful ultraviolet rays of sunlight.

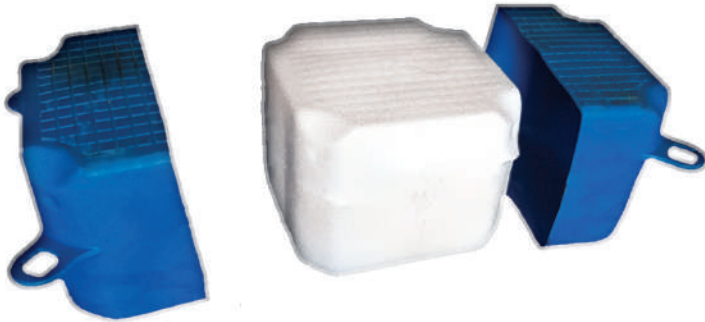


### Information Chart

Color	Average Thickness	Buoyancy Force	Total Weight	Dimensions	Raw Materials
blue & black	5–6mm	90kg	8±0.3kg	40*50*50 cm	High Density Polyethylene (HDPE)

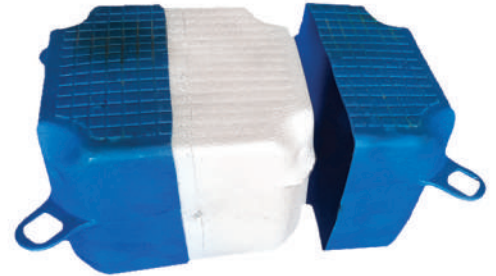
## > Advantages of Using Foam

- Providing polystyrene foam and polyurethane foam injection
- No water penetration into the floating tank
- No change in appearance of dock in case of temperature change
- Distribution of pressure-related force on the dock surface



## > Applications

- Commercial and military floating docks
- Fish farming cages
- Tourist floating islands and seawater pools
- Sports stations
- Fishing docks
- Mobile floating platforms equipped with engines





## Introduction to Buoy

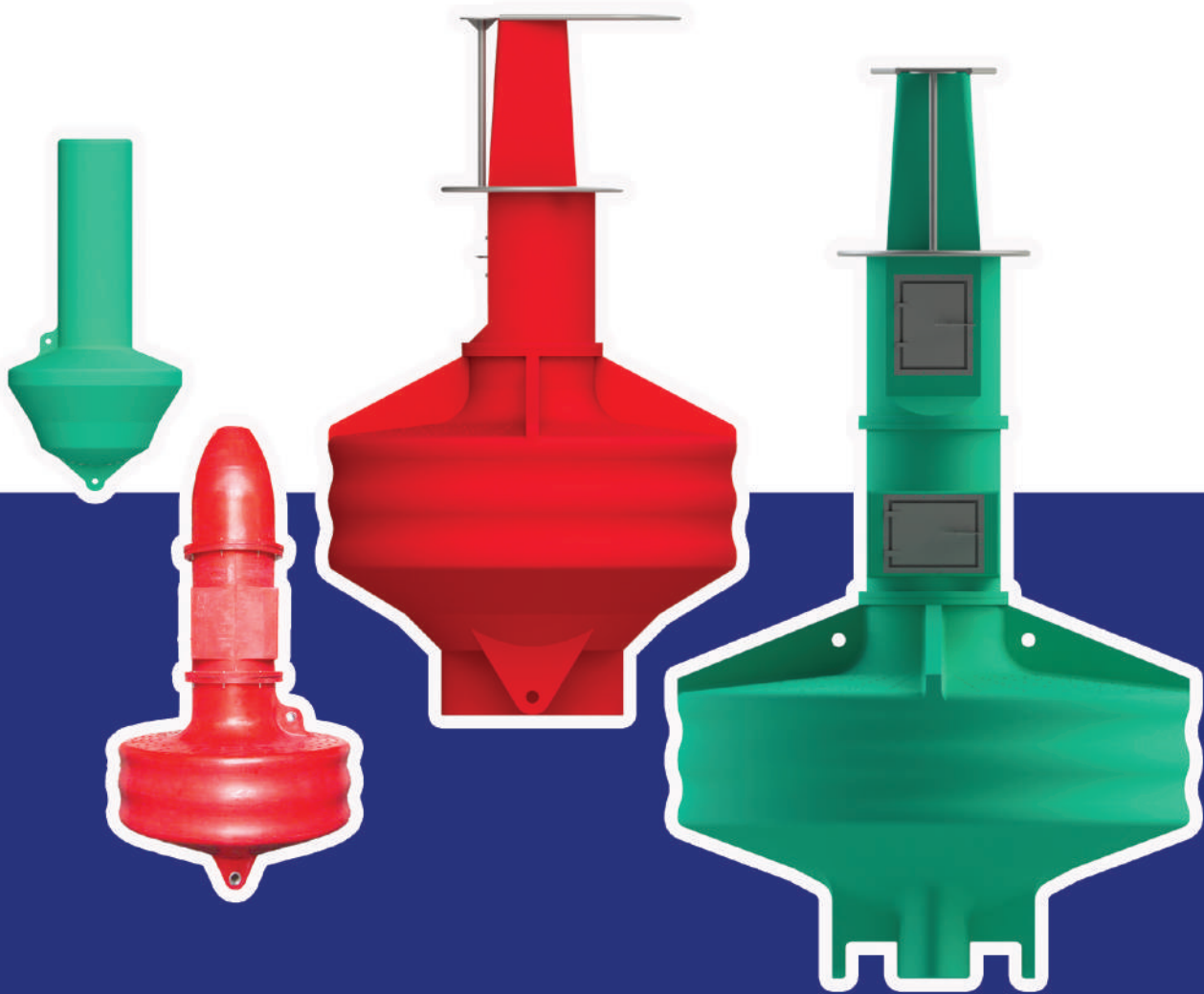
Tabarestan Plastic Complex's floating buoys are made of first-grade polyethylene materials and all metal parts used inside and outside these buoys are made of a material suitable for use in the sea, named steel 316.

On these products, locations for installing the light, battery, and solar panel are provided which are of the safety and radar type. The buoys of the Tabarestan Plastic Complex are designed in such a way that their stable balance is maintained in a stationary state.

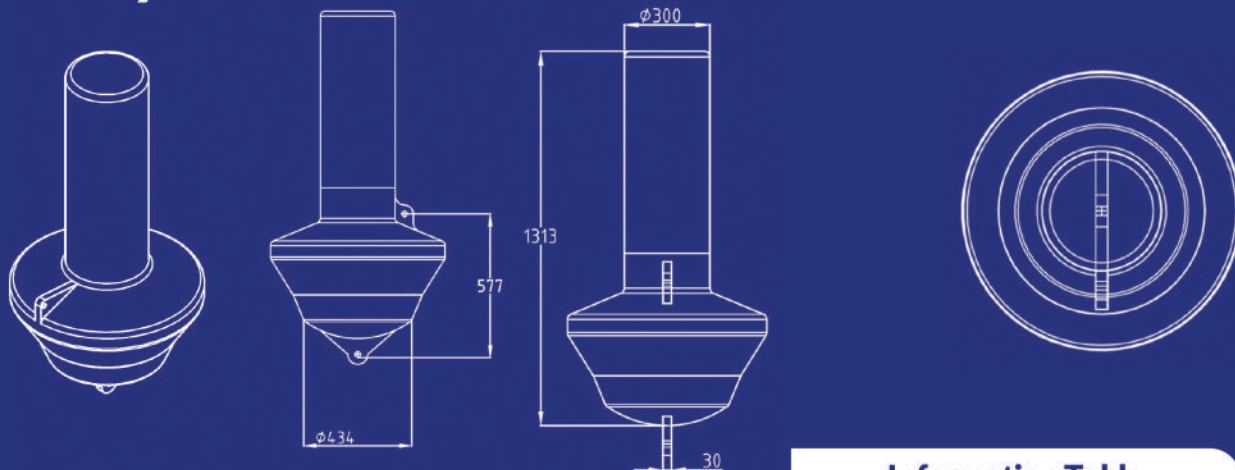
These products are available in yellow, red, and green colors, and also it can be produced in other colors due to the customer's order.

The raw materials used in these products are the same as the raw materials of the tanks, and the colors used in these buoys are completely stable against the environmental conditions of the seas and oceans.





# > Buoy 700



## Information Table

135

Safe tension force working on a high earring (kg)

Displacement and tension

## Physical properties

Polyethylene materials suitable for Anti-UV rotary production of internal bracing stainless steel 613

Materials

8 (mm)

Body thickness

22 (kg)

Balance weight

polyurethane foam

Filled with

1370 (mm)

Height

700 (mm)

Width

45 (kg)

Mass

12 year

Product useful life (shelf-life)

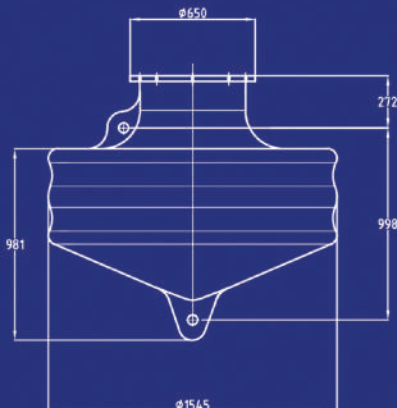
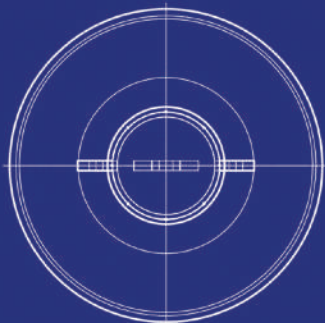


## General Specifications

700	Buoy Type
yellow red- green	Available Colors (Marine Standard)
1105	Height Above Waterline (mm)
160	Total Volume with Mast (liter)
280	Nominal Buoyancy Height (mm)
265	Waterline (mm)
135/5	Reverse Buoyancy Volume (liter)
24/5	Buoyancy Volume (liter)
60	Maximum Loading (kg)
740	Maximum Submersion in Water after Loading (mm)
3	Submergence (cm/kg)



# Buoy 1500



## Information Table

2300

Safe tension force working on a high earring (kg)

Displacement and tension

## Physical properties

Polyethylene materials suitable for Anti-UV rotary production of internal bracing stainless steel 613

Materials

13 (mm)

Body thickness

80 (kg)

Balance weight

polyurethane foam

Filled with

2130 (mm)

Height

1500 (mm)

Width

230 (kg)

Mass

20 year

Product useful life (shelf-life)

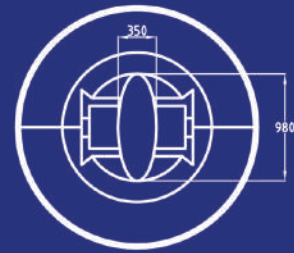
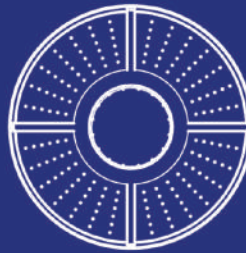
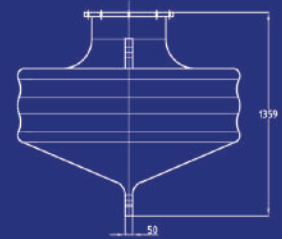
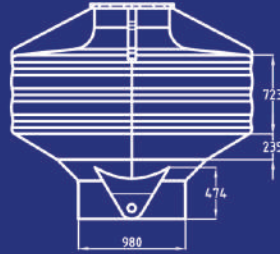
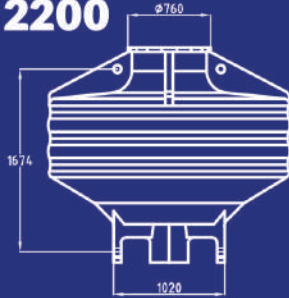


## General Specifications

1500	Buoy Type
yellow red- green	Available Colors (Marine Standard)
1680	Height Above Waterline (mm)
1130	Total Volume with Mast (liter)
460	Nominal Buoyancy Height (mm)
450	Waterline (mm)
930	Reverse Buoyancy Volume (liter)
200	Buoyancy Volume (liter)
280	Maximum Loading (kg)
605	Maximum Submersion in Water after Loading (mm)
18.2	Submergence (cm/kg)



## Buoy 2200



### Physical properties

Polyethylene materials suitable for Anti-UV rotary production of internal bracing stainless steel 613

Materials

16 (mm)

Body thickness

350 (kg)

Balanced weight

polyurethane foam

Filled with

3890 (mm)

Height

2200 (mm)

Width

886 (kg)

Mass

20 year

Product shelf-life



### General Specifications

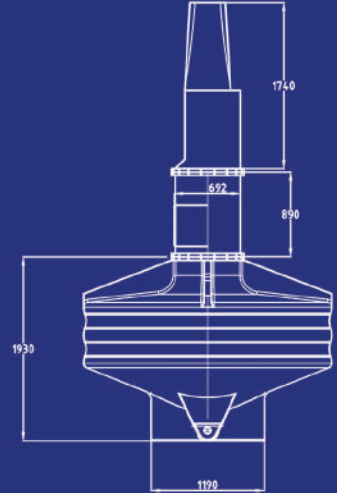
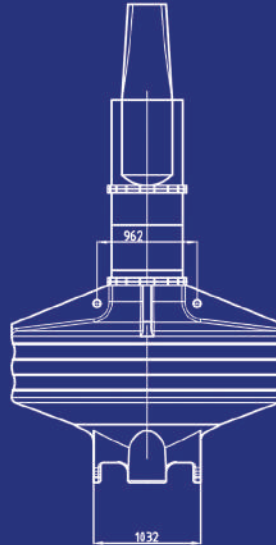
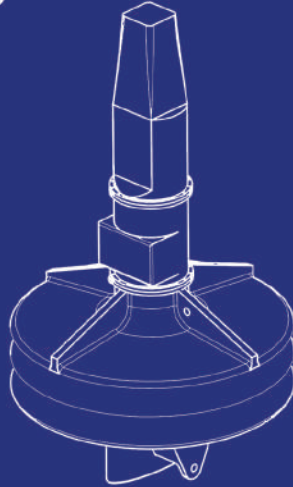
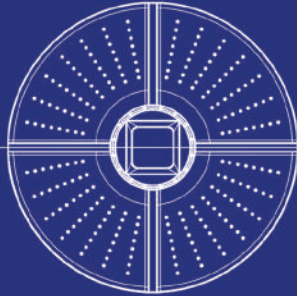
2200	Buoy Type
yellow red -green	Available Colors (Marine Standard)
3200	Height Above Waterline (mm)
4300	Total Volume with Mast (liter)
780	Nominal Buoyancy Height (mm)
690	Waterline (mm)
3670	Reverse Buoyancy Volume (liter)
630	Buoyancy Volume (liter)
1050	Maximum Loading (kg)
960	Maximum Submersion in Water after Loading (mm)
39	Submergence (cm/kg)
3	Visible Area (m2)

### Table of Information

1950	Safe Tensile Force Working on One Earring Above (kg)	Displacement and Tension
1025	Safe Weight Loading on One Earring (kg)	
4950	Safe Tensile Force Working on Two Earrings Above (kg)	
4000	Safe Weight Loading on Two Earrings (kg)	



# Buoy 2600



## Physical properties

Polyethylene materials suitable for Anti-UV rotary production of internal bracing stainless steel 613		Materials
18 (mm)	Body thickness	
400 (kg)	Balanced weight	
polyurethane foam	Filled with	
4770 (mm)	Height	
2600 (mm)	Width	
1070 (kg)	Mass	
20 year	Product shelf-life	



### General Specifications

2600	Buoy Type
yellow red -green	Available Colors (Marine Standard)
3850	Height Above Waterline (mm)
5700	Total Volume with Mast (liter)
780	Nominal Buoyancy Height (mm)
690	Waterline (mm)
4800	Reverse Buoyancy Volume (liter)
900	Buoyancy Volume (liter)
1475	Maximum Loading (kg)
990	Maximum Submersion in Water after Loading (mm)
54	Submergence (cm/kg)
4	Visible Area (m2)

### Table of Information

2225	Safe Tensile Force Working on One Earring Above (kg)	Displacement and Tension
1025	Safe Weight Loading on One Earring (kg)	
5200	Safe Tensile Force Working on Two Earrings Above (kg)	
4000	Safe Weight Loading on Two Earrings (kg)	

## > Introduction to Pipe Float

Pipe float is a new product that is produced from high-density polyethylene (HDPE) as its main raw material (ingredient).

These products are produced through a rotational molding process and can be used with various fixed or movable fittings. The floats structure is in a way that it makes it easy to transport liquids to the longest possible distance. These floats are made of polyethylene and polyurethane foam, which create a lightweight structure that is resistant to impact, abrasion, and corrosion. They are especially used in places that require support for pipes to transport liquids to long distances

Pipe floats have several features that make them a sustainable and economical product.

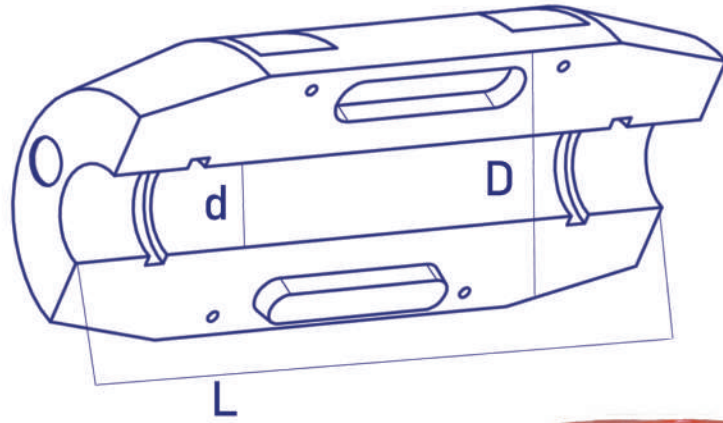
**High durability and strength:** The polyethylene pipe float is anti-oxidation and anti-corrosion and is resistant to seawater erosion and other environmental conditions

**Resistance to harsh weather conditions:** These products can perform well at temperatures between -30 and +60 degrees Celsius and in various water environments, including saltwater and freshwater with a pH of between 4 and 9

**Ability to be used in sea dredging:** One of the applications of the pipe floats is their use for dredging the sea, rivers, behind dams, and other water environments with great depth. This equipment makes it possible to float special pipes over long distances.

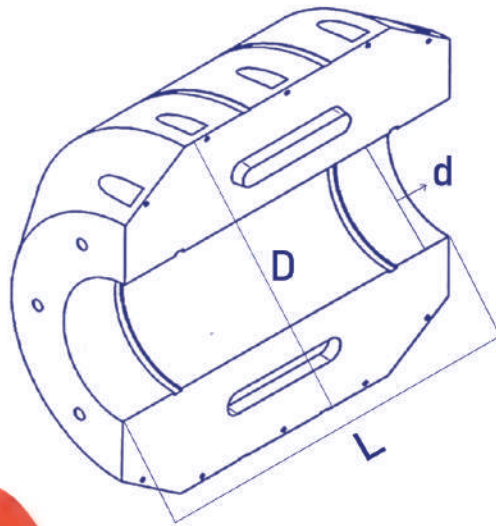
## > Float 150 – 250 – 330

			General Specifications
Float of Pipe 330	Float of Pipe 250	Float of Cable 150	Product Name
Orange- Red - Yellow	Orange- Red - Yellow	Orange- Red - Yellow	Color
40	26	20	Total Weight (kg)
280	199	145	Float
168	119/4	87	60% Floating
950	695	1000	Length (mm)
330	250	150	Internal Diameter (mm)
700	600	450	External Diameter (mm)



# > Float 500 – 630 – 830

			General Specifications
Float of Pipe 830	Float of Pipe 630	Float of Pipe 500	Product Name
Orange- Red - Yellow	Orange- Red - Yellow	Orange- Red - Yellow	Color
540	200	200	Total Weight (kg)
6520	1905	1830	Float
3912	1143	1098	60% Floating
2200	1700	1650	Length (mm)
830	630	500	Internal Diameter (mm)
2100	1400	1400	External Diameter (mm)





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