

Purchase Specifications for a 2600mm diameter Ocean Buoy

Overview

This specification is for a 2600mm diameter ocean buoy.

The buoy shall have a 2.6 meter float diameter.

The buoy shall be rotationally-moulded using UV-stabilized, virgin polyethylene.

The buoy shall be constructed using a four (4) quadrant hull section.

The tower assembly of the buoy shall be constructed using rotationally-moulded using UV-stabilised, virgin polyethylene.

The buoys shall be available in standard and compact models.

The buoy shall have forklift access points to safely manoeuvre the buoy assembly.

1.0 General Characteristics

The buoy shall be available in red, green, white or yellow as per IALA Recommendations.

The buoy shall have a focal height up to 5 metres.

The buoy shall have a total float volume of up to 6710 litres (1772 US gallons).

The buoy shall have a nominal freeboard of 865mm (34 inches).

The buoy shall have a nominal draft of 1325mm (52½ inches).

The buoy shall have a reserve buoyancy of 2000kgs (4409lbs).

The maximum mooring load of the buoy shall be 2000kgs (4409lbs).

The buoy shall have a maximum draft of 1690mm (66½ inches).

The buoy shall have a minimum freeboard of 500mm (19½ inches).

The buoy shall have a safe working load of 5500kgs (12125lbs) at one (1) point and 11000kgs (24250lbs) for two (2) points.

The buoy shall have a submergence of 54.7kg/cm (306lb/inch).

The visual area of the buoy shall be up to 4.7m² (50.6ft²) without daymark and up to 6.0m² (64.5ft²) without daymark .

The water area of the buoy shall be 1.7m² (18.3ft²).

2.0 Physical Characteristics

The buoy shall be rotationally-moulded using UV-stabilized, virgin polyethylene.

The float section of the buoy shall have a wall thickness of 18mm (¾ inch).

The buoy shall have 316-grade stainless steel fixtures.

The buoy shall have a ballast of external steel with a weight of 672kg (1482lbs).

The buoy shall have a height of 6240mm (245⅝ inches).

The buoy shall have a width of 2600mm (102¾ inches).

The buoy shall have a mass of 2340kgs (5159lbs) depending on payload.

The buoy shall come with a radar reflector.

The life expectancy of the buoy shall be >20 years.

3.0 Options

The buoy shall be offered with the following options available from the manufacturer:

- Mould-in graphics
- Day marks
- AIS monitoring system
- GSM monitoring system
- Closed-cell polyurethane foam filled float section
- Name Plate
- Aluminium Tower Assembly
- Galvanised or stainless steel mooring post
- Tail tube mooring post
- Suitable marine lanterns

4.0 Certifications

The manufacturer shall be ISO9001:2008 certified.

The manufacturer must be a current IALA Industrial Member.

The manufacturer must supply an independently certified Compliance Certificate complying with IALA Guidelines NO: 1006, on plastic Buoys.

5.0 Warranty

The buoy shall have a five (5) year warranty.