

PMB3000RM

3.0m Navigation Buoy

BROCHURE







OVERVIEW

PMB3000 is an outstanding class II type buoy suitable for offshore/ocean locations. Consisting of 4-piece virgin MDPE, UV stable float sections filled with closed cell, water resistant polyurethane foam built around an integral steel core incorporating both two lifting and mooring eyes for optimum strength and reliability.

The modular superstructure is manufactured from 'twin skin' design virgin, UV stabilized MDPE offering strength and lightweight characteristics. The 'flat' base of the buoy makes it easy to handle and store both on land and on deck prior to installation and the modular, flexible design is adaptable to a wide range of Navigation Lights, Day/ Top marks and solar panels, etc.

The standard range is augmented by bespoke products meeting your exact specifications or specialist needs. The flat base design of all products in the range ensures buoys stay upright in low-tide situations, are easily stored on vessel deck prior to installation and the galvanized steel core ensures absolute stability in rough seas and product integrity.

The buoys are built to last in extreme conditions. Even if the skin is punctured, the close cell foam filled polyethylene hull sections negate water absorption and keep it fully operational. This makes the range especially good for housing and protecting technical equipment such as monitoring technology.

The range has been designed for ease of installation and transportation. They can be shipped in sections and assembled or dissembled quickly on-site. The design of our Rotationally Moulded Polyethylene Buoys is meant to give customers the best of both worlds. They are lighter than steel, provide excellent performance, longevity, and cost less. Maintenance is easy and a lower overall cost and a wide range of competitively priced accessories are available.

KEY FEATURES

- Four Piece Float Section
- Excellent Stability
- High Visibility MDPE super structure
- Does not require painting
- Low maintenance
- Modular system
- Wide range of navigation lights accepted
- Each section can be colored to suit IALA specifications

OPTIONAL FEATURES

- · Mould in Graphics
- Day marks
- · Racon
- Monitoring Systems (AIS, GSM, GPS)
- Solar panels, Batteries

PHYSICAL SPECIFICATIONS			
Diameter (mm / inches)	3000 / 1181/8"		
Overall Weight (kg / lbs)	2100 / 4630		
Adjustable Ballast (kg / lbs)	800 / 1764		
Overall Height (mm / inches)	7600 / 2993/16"		
Maximum Focal Plane Height (mm / inches)	5000 / 1967/8"		
Nominal Freeboard (mm / inches)	590 / 231/4"		
Nominal Draft (mm / inches)	1510 / 597/16"		
Minimum Freeboard (mm / inches)	300 / 1113/16"		
Maximum Draft (mm / inches)	1800 / 707/8"		
Gross Buoyancy (kg / lbs)	6920 / 15256		
Reserve Buoyancy (kg / lbs)	4020 / 8863		
Submergence (kg / cm, lbs / inch)	70.6 / 395.4		
Visual Area (Without Day mark) (m² / ft²)	5.96 / 64.13		
Visual Area (With Day mark - CAN Shape) (m² / ft²)	7.70 / 82.85		
Visual Area (With Day mark - CON Shape) (m² / ft²)	7.42 / 79.84		
Minimum Mooring Weight (kg / lbs)	400 / 882		
Maximum Mooring Weight (kg / lbs) (To Maintain Minimum Freeboard)	1980 / 4365		

CONSTRUCTION				
Float	Rotationally molded UV stabilized virgin polyethylene, MDPE, filled with closed cell polyurethane foam.			
Super structure material	Rotationally molded twin skin design MDPE, virgin polyethylene			
Integrated, mooring/lifting steel core	Galvanized Steel			
Radar Reflector	Echomax			
Colours	As specified per IALA recommendations			

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SUGGESTED MOORING				
Current speed up to 2 knots				
Water Depth (m)	Chain Length (m)	Chain Size (mm)		
10 - 20		44		
21 - 30		38		
31 - 40	2x Water Depth	32		
41 -60		28		
61 - 100		24		
Current speed 2 - 4 knots				
Water Depth (m)	Chain Length (m)	Chain Size (mm)		

Current speed 2 - 4 knots				
Water Depth (m)	Chain Length (m)	Chain Size (mm)		
10 - 20		44		
21 - 30		38		
31 - 40	2.5x Water Depth	32		
41 - 60		28		
61 - 100		24		

61 - 100		24		
Current speed 4 - 6 knots				
Water Depth (m)	Chain Length (m)	Chain Size (mm)		
10 - 20		44		
21 - 30		28		
31 - 40	3x Water Depth	32		
41 -60		28		
Sinker Weight				
Concreate	2200 kg - 6600 kg			
Cast Iron	1500 kg - 4400 kg			

BUOY CONFIGURATIONS Lateral







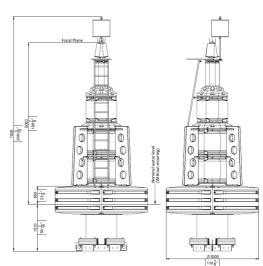


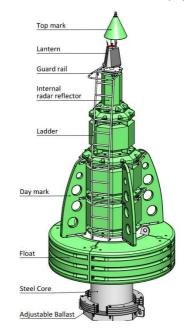












Note:

- · Wind speed considered maximum 50 knots
- When ordering mooring specify the site conditions
 Shallow water installation may require heavier chain that suggested for required Stability, depending upon site conditions
- Please note that this is a guide only as the mooring arrangement is an integral part of the system which an affect the overall performance and reliability of the buoy





