

PELANGI

L.L.D.P.E. BUOY

PB3050

Lightweight modular constructed buoy with "SOFT" float manufactured in Linear Low-Density Polyethylene (L.L.D.P.E.) open sea duties.



PB3000 buoy shown here with access ladder in position with 4 x 60 watt solar panels and PL125 lantern and PA305 top mark support frame.

Other Options include:

- **Stainless Steel lifting and mooring plates.**
- **PL125 or PL155 lantern with either LED or pre-focus lamps mounted on lampchanger or Bi-filament lamp light sources.**
- **Synchronisation via PELANET remote monitoring package using either Satellite or UHF radio linked by E mail to Port Control.**
- **Lightweight Polyethylene coated PA305 Radar reflector built into top mark.**

Extremely lightweight high focal plane buoy weighing only 2163 kgs in service for those Port Authorities with low lifting capabilities.

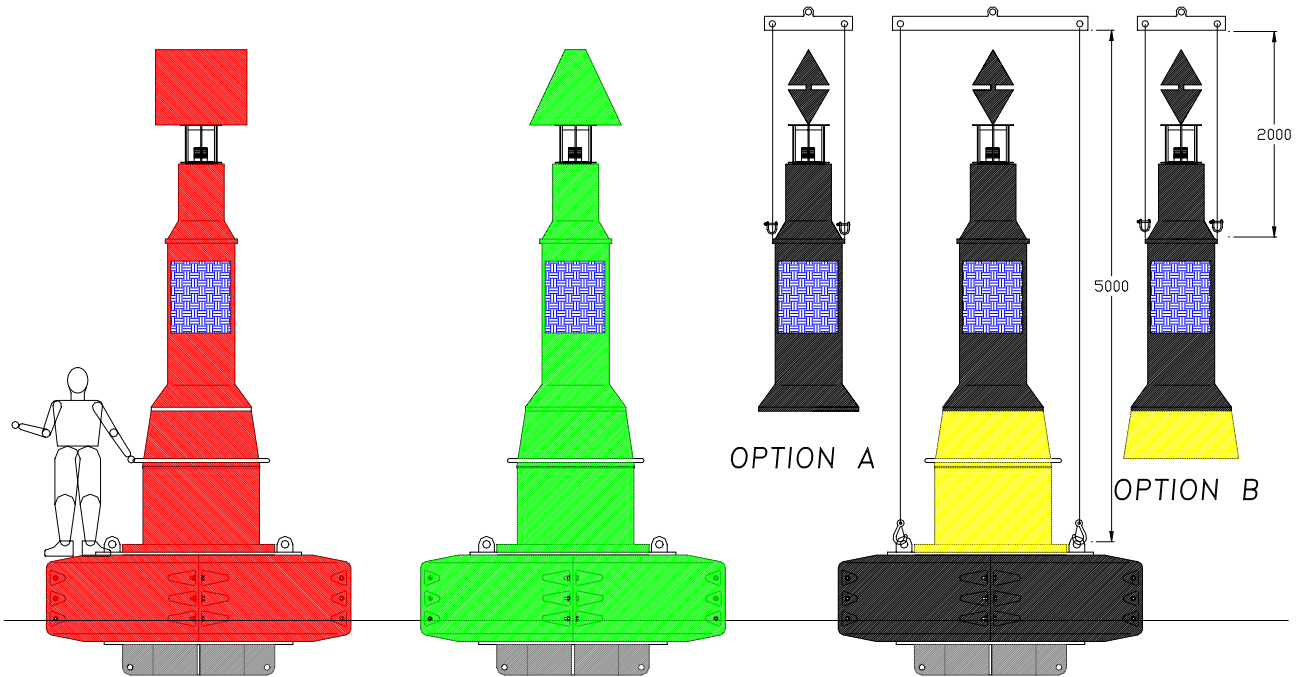
- Standard focal high of 5 metres to provide excellent platform for long range lanterns.
- Rotationally moulded floats constructed from 10-11mm thick virgin polymers with additional thickness of up to 14mm in high load areas and are foam filled to create robust floatation, which will resist mechanical abuse without damage.
- "SOFT" float does not require fender.
- Float and day marks produced in L.L.D.P.E. with UV stable polymers to EU standards of 12 years to reduce maintenance costs of repainting.
- Pillar structure is self coloured to match float and can be supplied in red, green yellow, yellow and black combinations with CAN, CONE or pillar shapes to I.A.L.A. standards for maximum flexibility.
- 4 mooring and 2 lifting eyes increase ease of buoy handling and offer maximum period between major overhaul as the twin bridle can be moved to opposite pair when the first set become worn.
- Removable Aluminium ladder to increase difficulty of unauthorised tampering with solar panels, battery and lantern assemblies.
- Modular lightweight plug in sections, which can be replaced quickly on board tender vessel, or in flat sea conditions along side in the event of collision damage.
- Handrails supplied as standard.



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PB3000 Buoys shown in different mark variations of colour, solar, & S.E.T. (Service Exchange Towers).

PB3050 Port Lateral, with PL125 L.E.D. lantern and PA305 radar reflector as top mark

PB3050 Starboard Lateral, with PL125 L.E.D lantern PA305 radar reflector inside superstructure, and standard top mark.

PB3050 configured as East Cardinal, with lantern, and solar module showing various splits of option A with solar and option B with lantern, solar, and batteries.

Type	PB3050: Port	PB3050:Starboard	PB3050:Cardinal
Site	Open	Open	Open
Diameter	3000 mm	3000 mm	3000 mm
Focal height	4490mm	4490mm	4490mm
Typical Draught	700 mm	700 mm	700 mm
Standard float wall	10 mm	10 mm	10 mm
Lifting eyes	4	4	4
Mooring eyes	4	4	4
Recommended chain	30-38 mm Open Link	30-38 mm Open Link	30-38 mm Open Link
Reserve Buoyancy	4037Kgs	4037Kgs	4037Kgs
Power source	Solar	Solar	Solar
Sinker weight	3.5 Tonnes (in water)	3.5 Tonnes (in water)	3.5 Tonnes (in water)
Typical chain length	2-3 times depth	2-3 times depth	2-3 times depth
Standard Weight	2163Kgs	2163Kgs	2163Kgs
Overall Height in metres	6.0 metres	6.0 metres	6.0 metres