



SB138-P

SENTINEL® BUOY



Exceptional Station-Keeping

Deployed in over 40 countries, the SB138P buoy utilizes the benefits of the latest in materials, manufacturing processes and technology. Providing a rugged, lightweight buoy with exceptional station-keeping and long life, while reducing the long term maintenance expense typically associated with floating aids to navigation.

A few benefits of the SB138-P include:



Long-term strength and security - The float section is internally cross-braced with stainless steel rods that are connected to stainless steel bushings in mooring and lifting eyes.



UV-stabilised polyethylene - rotationally moulded to form a seamless hull, 9.5mm thick, able to withstand knocks and/or collisions.



Stability - Achieved by filling the float section with a calculated amount of reinforced concrete as ballast.



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Additional Benefits:

Divided into three sections – A float section, battery section and a nav-aid section form an abrasion resistant, shock absorbing buoy able to withstand knocks and/or collisions. The float section has a moulded in slip resistant surface, providing an added safety precaution for on station maintenance.

Matching or alternating sections - Easily makes bifurcation buoys, either red or green as required. Cardinal buoys can be assembled using the same method, with yellow and black sections. Fairway or Safe Water buoys are produced using a process of moulded in colour graphics, resulting in red and white vertical striping.

Power- Configured for 12V or 24V nominal, the power system for the lantern and optional equipment is housed in the battery section, which also forms part of the tower for the lantern.

Navaid Section – Has provision for four 10 peak watt solar modules or up to three 20 peak and one ten peak watt solar modules. Configurations of solar modules can vary depending on electrical load and average insolation for area of deployment. This section also includes an internal high gain passive reflector (10m²) and lantern guard (if needed). Access to battery section and all equipment is through a hinged, tamper resistant, watertight wservice hatch, located in the navaid section

Technical Details	
Construction	Rotationally moulded in medium density UV-stabilised virgin polyethylene, 9.5mm thick
Foam Filling	16kg/m ³ expanded polystyrene foam
Air Weight	1000lb (454kg) (including two 38mm (1-1/2in) shackles)
Diameter	5ft 9in (1750mm)
Focal Plane Height	7ft 6in (2290mm)
Optional Extended Focal Plane	9ft 6in (2900mm)
Draft	2ft 6in (751mm)
Freeboard	1ft (305mm)
Submergence	138lb/in (24.7kg/cm)
Radar Reflector	10m ² (X-band)
Radar Range, nominal	3 to 4NM
Visual Area with daymark panels (can shape)	17.2ft ² (1.6m ²)
Visual Area with daymark panels (nun shape)	16.1ft ² (1.5m ²)
Surface Color	As Specified
Maximum Mooring Load	1400lb (636kg)
Maximum Current	6 knots

Specifications subject to change.

Recommended Moorings:

Current less than 2 knots		
Water Depth (ft)	Chain Length (Shot)	Chain Size
35	45 ft (1/2)	1 1/8 in
35-50	90 ft (1)	1 in
50-80	135 ft (1 1/2)	1 in
80-120	180 ft (2)	3/4 in
120-160	225 ft (2 1/2)	5/8 in
160-200	315 ft (3 1/2)	1/2 in

Current 2-4 knots		
Water Depth (ft)	Chain Length (Shot)	Chain Size
35	90 ft (1)	1 1/8 in
35-50	90 ft (1)	1 in
50-80	135 ft (1 1/2)	1 in
80-120	225 ft (2 1/2)	3/4 in
120-160	450 ft (5)	5/8 in
160-200	450 ft (5)	1/2 in

Current 4-6 knots		
Water Depth (ft)	Chain Length (Shot)	Chain Size
35	90 ft (1)	1 1/8 in
35-50	135 ft (1 1/2)	1 in
50-80	180 ft (2)	1 in
80-120	270 ft (3)	3/4 in
120-160		
160-200		

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