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.
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 boys 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 service hatch, located in the navaid section.

Recommended Moorings:

<table>
<thead>
<tr>
<th>Current less than 2 knots</th>
<th>Current 2-4 knots</th>
<th>Current 4-6 knots</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Depth (ft)</strong></td>
<td><strong>Chain Length (Shot)</strong></td>
<td><strong>Chain Size</strong></td>
</tr>
<tr>
<td>35</td>
<td>45 ft (1½)</td>
<td>1 1/8 in</td>
</tr>
<tr>
<td>35-50</td>
<td>90 ft (1)</td>
<td>1 in</td>
</tr>
<tr>
<td>50-80</td>
<td>135 ft (1½)</td>
<td>1 in</td>
</tr>
<tr>
<td>80-120</td>
<td>180 ft (2)</td>
<td>¾ in</td>
</tr>
<tr>
<td>120-160</td>
<td>225 ft (2 ½)</td>
<td>5/8 in</td>
</tr>
<tr>
<td>160-200</td>
<td>315 ft (3 ½)</td>
<td>½ in</td>
</tr>
</tbody>
</table>

Technical Details:

- **Construction**: Rotationally moulded in medium density UV-stabilised virgin polyethylene, 9.5mm thick
- **Foam Filling**: 16kg/m3 expanded polystyrene foam
- **Air Weight**: 1000lb (454kg) (including two 38mm (1-½in) 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**: 10m2 (X-band)
- **Radar Range, nominal**: 3 to 4NM
- **Visual Area with daymark panels (can shape)**: 17.2ft2 (1.6m2)
- **Visual Area with daymark panels (nun shape)**: 16.1ft2 (1.5m2)
- **Surface Color**: As Specified
- **Maximum Mooring Load**: 1400lb (636kg)
- **Maximum Current**: 6 knots

Specifications subject to change.