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Introduction

Congratulations! By choosing to purchase a Sealite Buoy, you have become the owner of one of the most advanced rotationally-moulded polyethylene marine buoys in the world.

Sealite Pty Ltd has been manufacturing buoys for over 25 years, and particular care has been taken to ensure your buoy gives years of service.

As a commitment to producing the highest quality products for our customers, Sealite has been independently certified as complying with the requirements of ISO 9001:2008 quality management system.

By taking a few moments to browse through this booklet, you will become familiar with the versatility of your buoy, and be able to maximise its operating function.

Sealite Buoy Division

Sealite marine buoys are manufactured on-site from rotationally-moulded UV-stabilised polyethylene, and are designed to offer a low-maintenance, high visibility solution to marine navigation.

The Sealite buoy division provides turn-key production of navigation buoys. From tooling development, raw materials selection, and production, to final testing and inspection, Sealite guarantees superior quality and fast turn-around times.

Sealite’s buoy products are available in a wide range of configurations and sizes, and can be economically shipped worldwide.

Why Choose Polyethylene Buoys?

- No painting
- Inhibits growth
- Increased interval between servicing
- Routine maintenance on location
- Easily repaired in the unlikely event of damage
- Lightweight for ease of deployment and maintenance
- Environmentally friendly – no use of toxic antifouling paint

Mooring Requirements & Regulations

Please contact your local authority for any specific requirements regarding the deployment of buoys. IALA also has guidelines and recommendations that should be followed.

All information given in this manual is advisory only. Please consult with your local authority before deploying your buoy products.

Local conditions that need to be considered include:-

- Water depth
- Maximum currents
- Maximum wind speeds
- Sinker size and weight
ATLANTIC-2600 Ocean Buoy

The ATLANTIC-2600 is a robust, rotationally-moulded polyethylene navigation buoy designed for offshore port and coastal applications.

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>ATLANTIC-2600</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Characteristics</strong></td>
<td></td>
</tr>
<tr>
<td>Available Colours</td>
<td>Red, Green, White, Yellow as per IALA Recommendations</td>
</tr>
<tr>
<td>Focal Plane Height (mm/inches)</td>
<td>ATLANTIC-2600 (standard model): 2950 / 1161/8</td>
</tr>
<tr>
<td>Total Float Volume (ltrs/US gallon)</td>
<td>ATLANTIC-2600-ET (extended tower model): 3850 / 1515/8</td>
</tr>
<tr>
<td>Nominal Freeboard (mm/inches)</td>
<td>5610 / 1482</td>
</tr>
<tr>
<td>Nominal Draft (mm/inches)</td>
<td>780 / 301/4</td>
</tr>
<tr>
<td>Reserve Buoyancy (kgs/lbs)</td>
<td>690 / 271/8</td>
</tr>
<tr>
<td>Maximum Mooring Load (kgs/lbs)</td>
<td>1475 / 3252</td>
</tr>
<tr>
<td>Draft, Maximum (mm/inches)</td>
<td>1475 / 3252</td>
</tr>
<tr>
<td>Freeboard, Minimum (mm/inches)</td>
<td>Must lift with 2 points when mooring load os above 1050 / 2315</td>
</tr>
<tr>
<td>Safe Working Load, 1pt (kgs/lbs)</td>
<td>960 / 373/4</td>
</tr>
<tr>
<td>Safe Working Load, 2pt (kgs/lbs)</td>
<td>510 / 201/6</td>
</tr>
<tr>
<td>Submergence (kg/cm, lb/inches)</td>
<td>1950 / 4300</td>
</tr>
<tr>
<td>Visual Area (m²/ft²)</td>
<td>5200 / 11460</td>
</tr>
<tr>
<td><strong>Physical Characteristics</strong></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>54.7 / 306</td>
</tr>
<tr>
<td>Wall Thickness (mm/inches)</td>
<td>4.0 / 13.1</td>
</tr>
<tr>
<td>Ballast (kg/lbs)</td>
<td>970 / 2138</td>
</tr>
<tr>
<td>Filling</td>
<td>970 / 2138</td>
</tr>
<tr>
<td>Height (mm/inches)</td>
<td>Radar Reflector</td>
</tr>
<tr>
<td>ATLANTIC-2600 Standard Model: 4120 / 1621/4</td>
<td></td>
</tr>
<tr>
<td>ATLANTIC-2600-ET: 5020 / 1973/8</td>
<td></td>
</tr>
<tr>
<td>Width (mm/inches)</td>
<td>Echomax</td>
</tr>
<tr>
<td>ATLANTIC-2600: 2600 / 1023/4</td>
<td></td>
</tr>
<tr>
<td>Mass (kg/lbs)</td>
<td>970 / 2138</td>
</tr>
<tr>
<td>Radar Reflector</td>
<td>970 / 2138</td>
</tr>
<tr>
<td>Product Life Expectancy</td>
<td>Radar Reflector</td>
</tr>
<tr>
<td>Certification</td>
<td>Surface colours compliant to IALA E-108</td>
</tr>
<tr>
<td>IALA</td>
<td>ISO9001:2008</td>
</tr>
<tr>
<td>Quality Assurance</td>
<td>5 years</td>
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<tr>
<td><strong>Intellectual Property</strong></td>
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</tr>
<tr>
<td>Trademarks</td>
<td>SEALITE® is a registered trademark of Sealite Pty Ltd</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>5 years</td>
</tr>
<tr>
<td><strong>Lantern Options</strong></td>
<td></td>
</tr>
<tr>
<td>Options Available</td>
<td>Sealite SL-C310, SL-C410, SL-C415, SL-C420, SL-125 Series or SL-155 Series</td>
</tr>
<tr>
<td>• Mould-in graphics</td>
<td></td>
</tr>
<tr>
<td>• Day marks</td>
<td></td>
</tr>
<tr>
<td>• Monitoring Systems (AIS, GSM)</td>
<td></td>
</tr>
</tbody>
</table>

* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
ATLANTIC-2600 Ocean Buoy

Product Features & Technical Specifications

- IALA top mark
- Guard rail
- 316-grade stainless steel ladder & grab rail
- Optional battery compartment
- Lifting points
- Non-slip deck
- Rotational moulded to 18mm wall thickness
- Internal tie-bars to interconnect lifting & mooring points
- Twin mooring points
- Internal 10m² radar reflector
- Optional self-contained lantern
- Convenient tether points
- Additional payload
- Made from strong, durable, UV-stabilized, virgin polyethylene
- Innovative guidance keel

ATLANTIC-2600-ET
Model shown includes extended tower to 4.1mtr
ATLANTIC-2600
Ocean Buoy

ATLANTIC-2600
Standard Model

ATLANTIC-2600-ET
Model includes extended tower
# ATLANTIC-2600 Product Components

## ATLANTIC-2600

### Standard Model

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Qty</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Atlantic Float Section</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Atlantic Float Section Side Panels</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Atlantic Tower</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Mid Section</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Ladder</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Grab Rail</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Guard Rail</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Day Mark Mounting Plate (Optional)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Atlantic Lug Bushes</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>G316 S/S Bolt. M10x100mm Long</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td>11</td>
<td>G316 S/S Flat Washer</td>
<td>32</td>
<td>64</td>
</tr>
<tr>
<td>12</td>
<td>G316 S/S Spring or Locking Washer</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td>13</td>
<td>G316 S/S Plain Nut</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td>14</td>
<td>G316 S/S Bolt M16 x 90mm</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>15</td>
<td>G316 S/S M16 Flat Washer</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>16</td>
<td>G316 S/S M16 Spring Washer</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>17</td>
<td>G316 S/S M16 Plain Nut</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>18</td>
<td>Galvanised Grade M Shackle Ø38 with Ø44 pin, inside width 70mm x 137mm</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>19</td>
<td>Galvanised Grade S Shackle, Ø32mm</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>Galvanised Grade S Shackle, Ø38mm</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>Bridle Plate</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

## ATLANTIC-2600-ET

Model includes extended tower

### Notes

- **G316 S/S = Grade 316 Stainless Steel**
Assembly Instructions

Check Components
• Unload all components from crate or container.
• Check all components are complete and correct. Use table on the previous page for full list of components.

Prepare the Float Section
• Position the Atlantic Float Section on solid, level ground.
• Using the 8 x M16 bolts, flat washers, spring washers and nuts; assemble the float side panels to the main float section.

Prepare Tower Section
• Fit the grab rail to the tower section
• Fit the guard rail and top mark support
• Fit the top mark and the lantern to the top of the tower section
• Fit the mid section to the tower (extended tower model only)
• Fit the ladder assembly
• Fit any day mark brackets
• Fit the tower section to the float assembly using 16 x M10 Bolts, washers and nuts
• Final Inspection:
  o Check all bolts are tightened
  o Check lantern is working correctly
  o Check battery (if fitted) is secured properly
  o Check battery door (if fitted) is latched properly to form a water tight seal
• Ensure the lug bushes are fitted to the mooring bushes of the buoy
• Fit the mooring assembly to the mooring points
Sealite Breather Unit

How it Works
Inside the breather unit, is an air channel which forms in the shape of an S-Bend which runs from the M16 threaded hole to a small hole located on the other side.

This channel, fills with water and spills out through the small hole, allowing the water to effectively drain from the buoy and at the same time, preventing water from entering into the buoy through the small hole.

Installation Instructions for Breather Units (For Products which Contain Sealite’s Power Packs)
1. Unscrew the white plug located at the side/base of the buoy
2. Apply a small amount of marine grade silicon adhesive to the thread of the breather valve
3. Carefully screw in the breather unit ensuring that the arrow’s direction is pointing down.
Mooring Assembly Instructions

Check Components
• Unpack all Mooring and check all components are complete and correct.

Prepare & Attach Chain
• Fit and secure 1 x Ø38mm Shackle and 1 x Ø38mm Swivel Eye to the base of the bridle.

  Note: All Shackles must be positively locked. For example use 3mm Stainless Steel wire to lock the pin eye, or use a shackle pin with nut and split pin.

• Fit and secure a length of chain to the Swivel Eye using 1 x Ø38mm Shackle.
  Note: Please use the guides below to determine the correct chain size and length.

• Fit and secure the Bridle to the Buoy using 2 x Ø32mm Shackles. Place Ø36mm washers to either side of the bridle plate to pack the Shackle for a neat fit.

Attach Mooring Block
• Fit and secure the Chain to the Mooring Block.

• The Buoy is now ready for deployment.

Chain Size Guide

<table>
<thead>
<tr>
<th>Water Depth</th>
<th>Recommended Chain Size (from swivel to mooring block)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metres</td>
<td>Feet</td>
</tr>
<tr>
<td>6 to 14</td>
<td>20 to 46</td>
</tr>
<tr>
<td>14 to 22</td>
<td>46 to 72</td>
</tr>
<tr>
<td>22 to 32</td>
<td>72 to 105</td>
</tr>
<tr>
<td>32 to 50</td>
<td>105 to 164</td>
</tr>
<tr>
<td>50 to 75</td>
<td>164 to 246</td>
</tr>
</tbody>
</table>

Chain Length Guide

<table>
<thead>
<tr>
<th>Recommended Length of Chain</th>
<th>Maximum Water Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best Practice (Up to 6kts current)</td>
<td>3 x Water Depth</td>
</tr>
<tr>
<td>For Reduced Watch Circle (Current 2kts to 4kts)</td>
<td>2.5 x Water Depth</td>
</tr>
<tr>
<td>For Minimum Watch Circle (use only where current &lt;2kts)</td>
<td>Not less than 2 x Water Depth</td>
</tr>
</tbody>
</table>
NOTES:
1/ Shackles, swivel and chain are to be load rated products.
2/ All shackle pins are to be positively locked. eg using 3mm S.S. wire to lock pin eye, or use shackle pin with nut and split-pin.

---

**ATLANTIC-2600 Mooring Diagram**

### CHAIN SIZE

<table>
<thead>
<tr>
<th>Water Depth (Metres)</th>
<th>Recommended Chain Size (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 to 20</td>
<td>20 to 65</td>
</tr>
<tr>
<td>20 to 30</td>
<td>65 to 100</td>
</tr>
<tr>
<td>30 to 45</td>
<td>100 to 150</td>
</tr>
<tr>
<td>45 to 70</td>
<td>150 to 230</td>
</tr>
<tr>
<td>70 to 135</td>
<td>250 to 345</td>
</tr>
</tbody>
</table>

### CHAIN LENGTH

- **Best Practice (up to 6kts current):**
  - 3 x Water Depth
  - Maximum Water Depth (m)
- **For Reduced Watch Circle (current to 2 to 4 kts):**
  - 2.5 x Water Depth
  - Maximum Water Depth (m)
- **For Minimum Watch Circle (only where current < 2 kts):**
  - Not less than 2 x Water Depth
  - Maximum Water Depth (m)

---

**Mooring Block:** 3600 kg Airweight. Approximate sizes shown for a square concrete block. 2 or as required.

<table>
<thead>
<tr>
<th>Item</th>
<th>Material Description</th>
<th>Qty</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Swivel, Eye to Eye φ38 or larger</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>S.S. Washer, Diam 42</td>
<td>as req'd</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>D-Shackle Grade S, φ38 with φ41 pin</td>
<td>3</td>
<td>22</td>
</tr>
<tr>
<td>1</td>
<td>Sealite buoy_assemblyXX.dxf</td>
<td>1</td>
<td>970</td>
</tr>
</tbody>
</table>

---

Maximum Water Depth (Highest tide plus half the maximum wave height)
Marine Buoy Maintenance

Sealite Marine Buoys are designed to require very little maintenance. We recommend the buoy be inspected annually. Inspection may need to increase depending on the local conditions and the position of the buoy.

IALA Recommendation AISI M E-107 suggests moorings are inspected annually.

**Marine Buoy – Annual Maintenance**
- Visually inspect buoy for damage
- Inspect the top mark for any damage. Repair any broken or damaged section.
- Clean buoy of animal debris

**Mooring – Annual Maintenance**
- Check and clear the tail and ride chains from shells and algae.
- Check for wear on any shackle axis and check the tapered pins. Any worn shackles must be replaced.
- Check the free movement of each swivel around its head. If any swivel head sticks it must be replaced.
- Check every link of the thrash length of the chain. Check the diameter of the nips and sides and also inspect the welds on every link.
- If depth allows, a worn riding chain may be reversed.
- Change a chain when any link shows excessive wear.
- Chain must be replaced if any link wears to less than 3/5 of the original diameter.

**Mooring – Biannual Maintenance**
- Inspect the ground chain and sinker.

**Lanterns – Maintenance**
- Please refer to the Installation Manual for the specific Marine Lantern fitted to the Buoy.
Sealite Buoy Warranty V2.3

Activating the Warranty
Upon purchase, the Sealite Pty Ltd warranty must be activated for recognition of future claims. To do this you need to register on-line. Please complete the Online Registration Form at:

www.sealite.com

Sealite Pty Ltd will repair or replace your buoy product in the event of failure for a period of up to twelve months (small buoy products less than 1500mm diameter) & a period of up to five years (large buoy products 1500mm diameter & larger) from the date of purchase.

The unit must be returned to Sealite freight prepaid.

Warranty Terms
1. Sealite Pty Ltd warrants that any rotationally-moulded buoy products (“Buoy Products”) will be free from defective materials and workmanship under normal and intended use, subject to the conditions hereinafter set forth, for a period of twelve (12) months for small buoy products up to under 1500mm diameter, and for a period of five (5) years for large buoy products including and over 1500mm in diameter from the date of purchase by the original purchaser.(excluding the consumables such as Anodes).

2. Sealite Pty Ltd warrants that any ancillary products and accessories (e.g. Mooring Pin, Mooring Sleeve, Roller Pin, Chains & Shackles,inker, etc.), not mentioned in other clauses in this section, will be free from defective materials and workmanship under normal and intended use, subject to the conditions hereinafter set forth, for a period of twelve (12) months from the date of purchase by the original purchaser subject to satisfactory installation in accordance with industry best practice.

3. Sealite Pty Ltd will repair or replace, at Sealite’s sole discretion, any Buoy Products found to be defective in material and workmanship in the relevant warranty period so long as the Warranty Conditions (set out below) are satisfied.

Warranty Conditions
This Warranty is subject to the following conditions and limitations;
1. The warranty is applicable to buoys manufactured from 1/1/2009.
2. The warranty is void and inapplicable if:
   a. the product has been used or handled other than in accordance with the instructions in the owner’s manual and any other information or instructions provided to the customer by Sealite;
   b. the product has been deliberately abused, or misused, damaged by accident or neglect or in being transported; or
   c. the defect is due to the product being repaired or tampered with by anyone other than Sealite or authorised Sealite repair personnel.
3. The customer must give Sealite Pty Ltd notice of any defect with the product within 30 days of the customer becoming aware of the defect.
4. No modifications to the original specifications determined by Sealite shall be made without written approval of Sealite Pty Ltd.
5. The product must be packed and returned to Sealite Pty Ltd by the customer at his or her sole expense. Sealite Pty Ltd will pay return freight of its choice. A returned product must be accompanied by a written description of the defect and a photocopy of the original purchase receipt. This receipt must clearly list model and serial number, the date of purchase, the name and address of the purchaser and authorised dealer and the price paid by the purchaser. On receipt of the product, Sealite Pty Ltd will assess the product and advise the customer as to whether the claimed defect is covered by this warranty.
6. Sealite Pty Ltd reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.

Limitation of Liability
To the extent permitted by acts and regulations applicable in the country of manufacture, the liability of Sealite Pty Ltd under this Warranty will be, at the option of Sealite Pty Ltd, limited to either the replacement or repair of any defective product covered by this Warranty. Sealite will not be liable to Buyer for consequential damages resulting from any defect or deficiencies.

Limited to Original Purchaser
This Warranty is for the sole benefit of the original purchaser of the covered product and shall not extend to any subsequent purchaser of the product.

Miscellaneous
Apart from the specific warranties provided under this warranty, all other express or implied warranties relating to the above product is hereby excluded to the fullest extent allowable under law. The warranty does not extend to any lost profits, loss of good will or any indirect, incidental or consequential costs or damages or losses incurred by the purchaser as a result of any defect with the covered product.

Warrantor
Sealite Pty Ltd has authorised distribution in many countries of the world. In each country, the authorised importing distributor has accepted the responsibility for warranty of products sold by distributor. Warranty service should normally be obtained from the importing distributor from whom you purchased your product. In the event of service required beyond the capability of the importer, Sealite Pty Ltd will fulfil the conditions of the warranty. Such product must be returned at the owner’s expense to the Sealite Pty Ltd factory, together with a photocopy of the bill of sale for that product, a detailed description of the problem, and any information necessary for return shipment.

Information in this manual is subject to change without notice and does not represent a commitment on the part of the vendor. Sealite products are subject to certain Australian and worldwide patent applications.
Other Sealite Products Available

**Marine Lanterns**
(1–19NM)

**Bridge & Barge Lights**

**Marine Buoys**
(up to 3mt in diameter)

**Area Lighting**

**Monitoring & Control Systems**

**Mooring Systems & Accessories**

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