



**SLB750**  
Marker Buoy Suited to Fast Water  
Installation & Service Manual

## Product Features & Technical Specifications

Able to be fitted with SL60 or SL70 Marine Lanterns

Integrated handle moulded in both can or cone

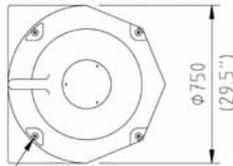
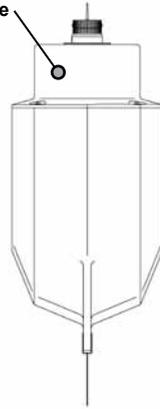
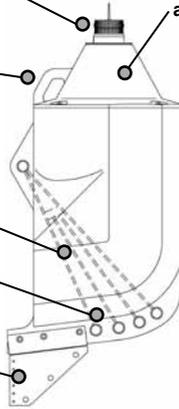
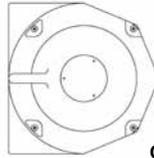
1 piece internal bracing connects mooring and lifting eyes

Multiple mooring eyes to suit various water speeds and depths

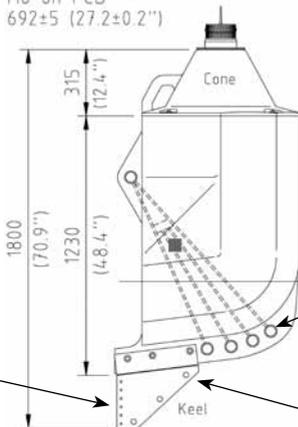
Stainless steel keel

Optional top marks available

Rotationally moulded to 6mm wall thickness



M8 on PCD  
692±5 (27.2±0.2")



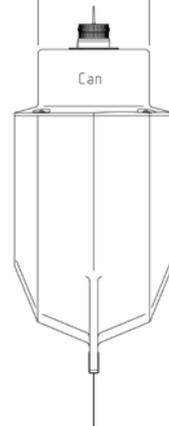
4 x Ø 48.5-42mm Wide Mooring Eyes

6 x Ø 9.5

Keel  
3 x Ø 24.5 Counterweight holes

**SLB750-CONE**

Ø525  
(20.7")

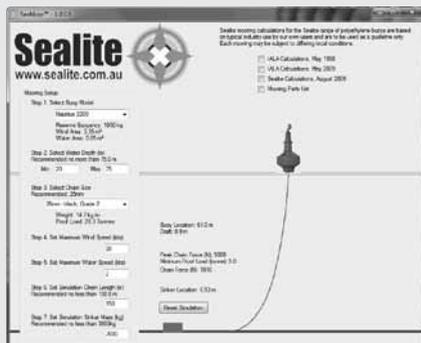


**SLB750-CAN**

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### SEAMOOR™ - SEALITE MOORING CALCULATOR



As a service to valued customers, Sealite has developed an advanced mooring calculator based in IALA guidelines and experience from major users.

The system simulates site mooring based on local conditions.

Contact Sealite today for a FREE copy.

Version No.	Description	Date	Approved
1.0	Manual Launch	November 2009	A. Dixon
2.0	Update	February 2010	K. Paton
3.0	Update: Spec Table	May 2012	J. Dore

## 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 ISO9001:2008 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

# SLB750 Marker Buoy

*The Sealite SLB750 is a large 750mm dia. marker buoy designed for a variety of applications and is particularly suited to fast water currents of up to 6 knots.*

*The unique one piece float section has an internally integrated bow and keel which ensures the buoy remains stable during fast currents.*

## SPECIFICATIONS •

### General Characteristics

Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	1195 / 147
Total Float Volume (litrs/US gallon)	412 / 109
Reserve Buoyancy (kgs/lbs)	24 / 53
Maximum Mooring Load (kgs/lbs)	24 / 53
Draft, Maximum (mm/inches)	695 / 27 <sup>1</sup> / <sub>2</sub>
Freeboard, Minimum (mm/inches)	790 / 31 <sup>1</sup> / <sub>8</sub>
Safe Working Load, 1 pt (kg/lbs)	1000 / 2205

### Physical Characteristics

Material	Rotationally-moulded UV-stabilized virgin polyethylene
Wall Thickness (mm/inches)	6 / <sup>1</sup> / <sub>4</sub>
Ballast (kg/lbs)	20 / 44
Filling	Closed-cell polyurethane foam (float section)
Height (mm/inches)	2005 / 78 <sup>7</sup> / <sub>8</sub>
Width (mm/inches)	750 / 29 <sup>1</sup> / <sub>2</sub>
Mass (kg/lbs)	64 / 141
Product Life Expectancy	Up to 12 years

### Certifications

Quality Assurance	ISO9001:2008
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### Intellectual Property

Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
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### Warranty \*

Lantern Options	1 year
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Options Available	Sealite SL15, SL60 or SL70 lantern
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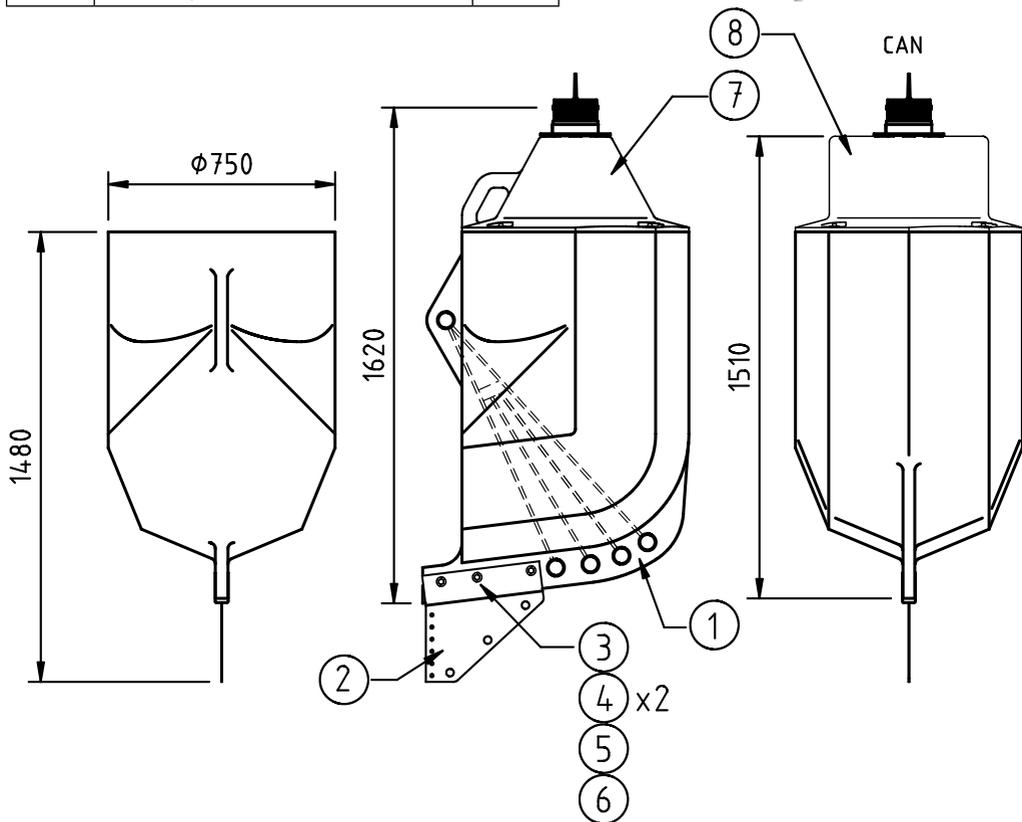
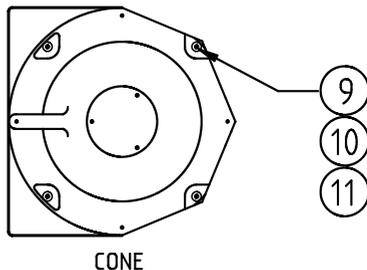
• Mould-in graphics



- Specifications subject to change or variation without notice
- \* Subject to standard terms and conditions

**SLB750 Product Components**

No	Description	Qty
1	SLB750 Float (with bracing, ballast & fill)	1
2	SLB750 Keel	1
3	SS Bolt, Ø10 x 65	3
4	SS Penny Washer, Ø10 x 31 OD	6
5	SS Spring Washer, Ø10	3
6	SS Plain Nut, Ø10	3
7	SLB750 Cone	1
8	SLB750 Can	1
9	SS Socket Head Cap Screw, Ø8 x 40	4
10	SS Spring Washer, Ø10	4
11	SS Penny Washer, Ø10 x 31 OD	4





## **SLB750 Assembly Instructions**

### **Check Components**

- Unload all components from container or crate
- Check all components are complete and correct
- Contact your local Distributor or Sealite for any missing parts.

### **Fitting the Keel**

- Turn the buoy up-side down on the flat top surface. Make sure this is done on level ground so the buoy is stable.
- Position the keel on buoy and secure using 3 x M10-65mm Long Bolts, 6 x Flat Penny Washers and 3 x M10 Nuts. If necessary tack weld the nut to the bolt.
- Fit any counterweight necessary to the keel. This will be dependent on the local conditions. A counterweight may consist of 3-8 links of chain secured to the keel with a shackle.

### **Fitting Top Section (Cans or Cone)**

- Position the buoy so the keel is on the ground and the top surface is facing up.
- Position the Can or Cone on the top of the buoy so the handle is aligned with the Lifting Eye.
- Secure the Can or Cone using 4 x M8-40mm Long Socket Head Cap Screws and 4 x Penny and Spring Washers.

### **Fitting Lights to the Buoy (optional)**

- Position the buoy so the keel is on the ground and the top surface is facing up.

**Follow the light Installation manual and check that the light activates and flashes correctly before fitting to the buoy.**

- Position the Light on the top of the can or cone.
- Secure the light to the Can or Cone using 4 x M8-20mm Long Socket Head Cap Screws and 4 x Flat and Spring Washers.

## SLB750 Mooring Instructions

Due to each installation being unique, the size and weight of the sinker, length and size of chain and any counterweights will need to be determined in conjunction with the local Authorities.

The Sealite SLB750 Marker Buoy is designed to ride on the current in a vertical position, this will allow any lantern fitted to work correctly and be seen from any direction.

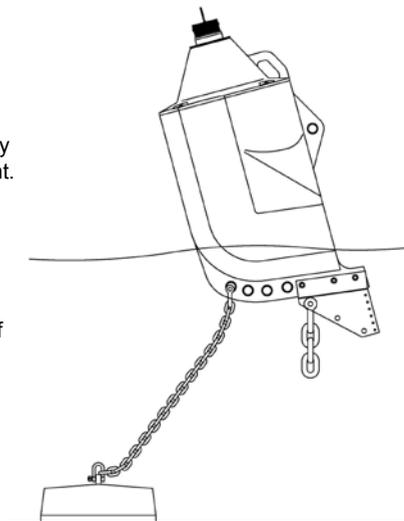
### If the buoy is riding forward;

Sealite would recommend the following

- The Mooring Chain and counter weight are fitted too far forward on the buoy. When the current is flowing the buoy is leaning into the current rather than riding on the current.

Try the following suggestions

- Move the mooring chain further back along the mooring eyes in the base.
- Move the counter weight further back along the bottom of the keel.
- Add more weight to the counterweight on the keel.



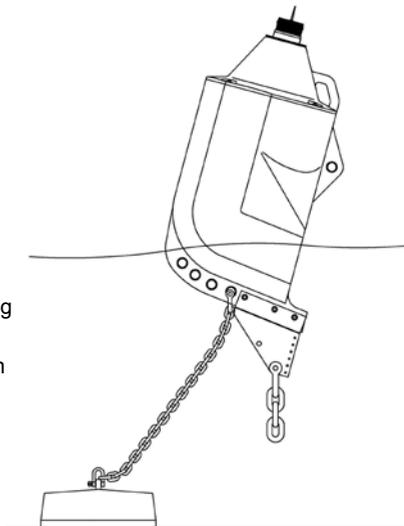
### If the buoy is riding aft;

Sealite would recommend the following

- The Mooring Chain and counter weight are fitted too far aft on the buoy. When the current is flowing the buoy is leaning into the current rather than riding on the current.

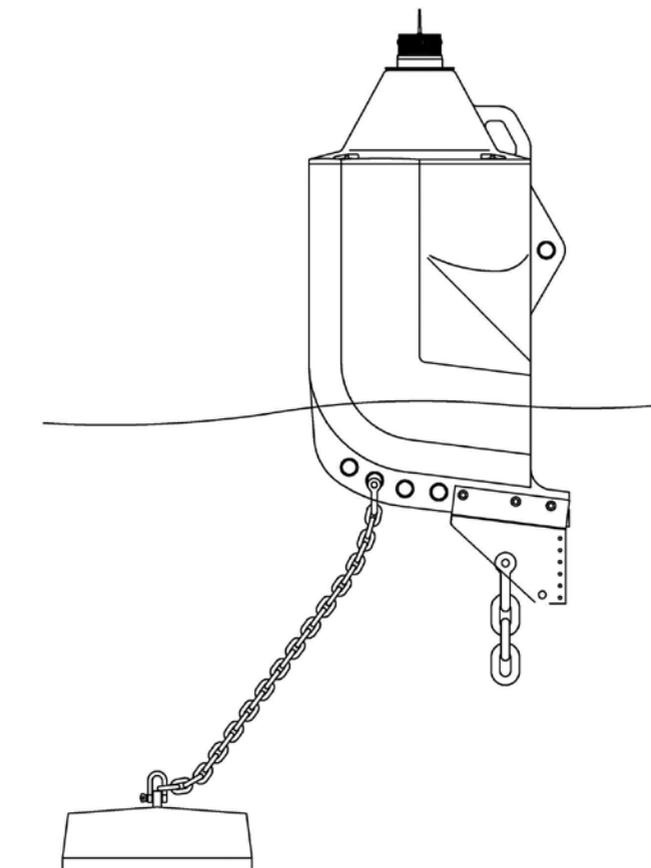
Try the following suggestions

- Move the mooring chain further forward along the mooring eyes in the base.
- Move the counter weight further forward along the bottom of the keel.
- Reduce the weight to the counterweight on the keel.



**The buoy is riding correctly;**

- The buoy is vertical in the water, with a light sitting horizontal.
- The chain is correctly sized, the buoy is not being dragged under the water or bobbing excessively.
- The counterweight on the keel is working correctly, being positioned correctly for the prevailing conditions.
- The sinker is weighted correctly to keep the buoy correctly positioned during all tidal currents





## **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 AISM 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 V2.1

### Activating the Warranty

Upon purchase, the Sealite Pty Ltd warranty must be activated for recognition of future claims. To do this you have two (2) options:

1. **Postal Registration** - please complete the Sealite Warranty Registration Card and return to Sealite within 30 days of your purchase.
2. **Online Registration** - please complete the Online Registration Form at; [www.sealite.com](http://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.
2. 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 section 68A of the Trade Practices Act 1974 (Cth), 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  
(1-12nm+)**



**Monitoring  
& Control Systems**



**Bridge & Barge Lights**



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



**Area Lighting**



**Mooring Systems  
& Accessories**



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