



TRIDENT-2600Q

2600mm dia. Ocean Buoy Installation & Service Manual





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Version No.	Description	Date	Approved
1.0	Manual Launch	July 2014	S. Turner
1.1	Assembly update	May 2015	N. Brothers



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

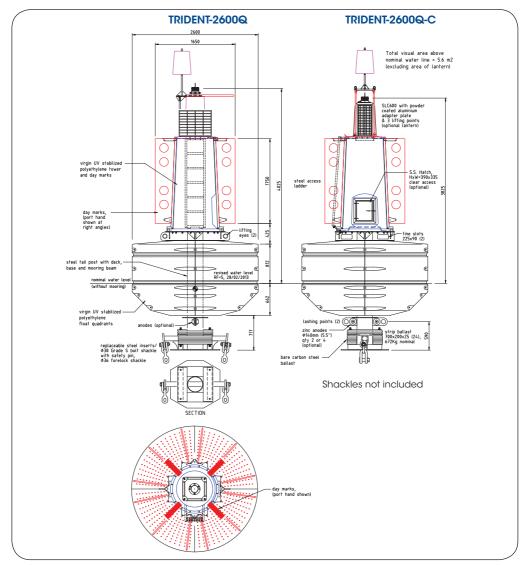


TRIDENT-2600Q Ocean Buoy

The TRIDENT-2600Q is one of the largest rotationally moulded buoys available, with a float diameter of 2.6 meters and lantern focal height of up to 4 meters.

The float section of the TRIDENT-2600Q is built from four (4) roto-moulded quadrants, which fasten together to form an incredibly robust 2.6 meter wide float section standing 1.5m tall. Each quadrant is moulded from UV-stabilised virgin polyethylene, and has an 18mm wall thickness.

Number of Lifting Points = 4 Visual area = 6.0m² (with daymark) Estimated roll period (bare) = 2.2sec SWL for 2 or more lifting points = 11,000kg (mooring point) SWL for 1 point lifting = 5500kg (deck and primary structure) Estimated roll period (moored) = 1.6sec





	SPECIFICATIONS**	TRIDENT-2600Q	TRIDENT-2600Q-C
		Standard Model	Compact Model
	General Characteristics Available Colours	Red, Green, White, Yellow as per IALA	Ped Green White Vallow as per IAI A
	Available Colours Focal Plane Height (mm/inches) Total Float Volume (Itrs/US gallon) Nominal Freeboard (mm/inches) Nominal Draft (mm/inches) Reserve Buoyancy (kgs/lbs) Maximum Mooring Load (kgs/lbs) Draft, Maximum (mm/inches) Freeboard, Minimum (mm/inches) Safe Working Load, 1pt (kgs/lbs) Submergence (kg/cm, lb/inches) Visual Area (m²/ft²)	Recommendations 4025 / 158½ 6710 / 1772 865 / 34 1325 / 52¹/s 2000 / 4409 2000 / 4409 1690 / 66½ 500 / 19⁵/s 5500 / 12125 (one lifting point) 11000 / 24250 (two lifting points) 54.7 / 306 4.7 / 50.6 (without daymark)	Red, Green, White, Yellow as per IALA Recommendations 3825 / 150½ 6710 / 1772 865 / 34 1325 / 52½ 2000 / 4409 2000 / 4409 2000 / 4409 1690 / 66½ 500 / 195½ 5500 / 12125 (one lifting point) 11000 / 24250 (two lifting points) 54.7 / 306 4.3 (without daymark) 56.4 / 40.3 (without daymark)
•	Water Area (m²/ft²) Physical Characteristics	6.0 / 64.5 (with daymark) 1.7 / 18.3	5.6 / 60.2 (with daymark) 1.7 / 18.3
• Oppositions and in the property of the prope	Maferial Wall Thickness (mm/inches) Ballast (kg/lbs) Height (mm/inches) Width (mm/inches) Mass (kg/lbs) Radar Reflector Product Life Expectancy Certifications	Rotationally-moulded UV-stabilised virgin polyethylene float section, tower assembly, top marks and panelling. 316-grade stainless steel fixtures. 18 / 3/ ₄ 672 / 1482 external steel 6240 / 245 ⁵ / ₈ 2600 / 102 ³ / ₈ 2340 / 5159 (depending on payload) Echomax EM230 >20 years	Rotationally-moulded UV-stabilised virgin polyethylene float section, tower assembly, top marks and panelling. 316-grade stainless steel fixtures. 18 / ³/ ₄ 672 / 1482 external steel 6240 / 245 ⁵ / ₈ 2600 / 102³/ ₈ 2340 / 5159 (depending on payload) Echomax EM230 >20 years
ation with	IALA Quality Assurance Intellectual Property	Surface colours compliant to IALA E-108 ISO9001:2008	Surface colours compliant to IALA E-108 ISO9001:2008
+	Trademarks Warranty *	SEALITE® is a registered trademark of Sealite Pty Ltd 5 years	SEALITE® is a registered trademark of Sealite Pty Ltd 5 years
	Lantern Options	Sealite SL-C310, SL-C410, SL-C415, SL-C420, SL-C500, SL-C600, SL-125 Series or SL-155 Series	Sealite SL-C310, SL-C410, SL-C415, SL-C420, SL-C500, SL-C600, SL-125 Series or SL-155 Series
	Options Available	Mould-in graphics Day marks Monitoring Systems (AIS, GSM) Closed-cell polyurethane foam filled float section Name Plate Aluminium Tower Assembly Galvanised or stainless steel mooring post Tail tube mooring post	Mould-in graphics Day marks Monitoring Systems (AIS, GSM) Closed-cell polyurethane foam filled float section Name Plate Aluminium Tower Assembly Galvanised or stainless steel mooring post Tail tube mooring post



Assembly: Ballast Section

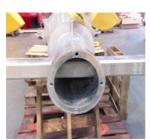
Components	
	Qty
Metal Centre Core	
Ballast Rings 100kg	7
Duck Foot Plate	1
M20x 40mm Bolts	4
M20 Spring Washers	4

Check Components

Unpack all components from container. Inspect all components for any damage. Please alert Sealite if any component is missing or damaged.

<u>Assembly</u>





Step 1

Lay centre core down, supported so end section is clear of the plates to be installed.



Step 2

- Duck Plate take one ring and tack weld in six places, allowing access to the four bolt holes on the underside.
- Slide the balance of the metal ballast rings over the core, leaving the duck plate ring as the last one.
- Slide duck plate over core ensuring the 4 x bolt holes align with the bolt holes in core of pipe
- Fix M20 bolts in and tighten with torque wrench.

Complete fixed Ballast - should look as follows:





Assembly: TRIDENT-2600Q

Fixings Qty Float Section	TRIDENT-2600Q Components		
M18x100MM-SS M18 x 100 Bolts 20 M18FLAT-WASHERS M18 Flat Washers 40 M18-SS-NYLOC M18 Nylock Nuts 20 Tower Section M10 X90 Bolts 16 M10X90MM-SS M10 Flat Washers 32 M10SPRINGWASHERSSS M10 Flat Washers 16 M10NUTSSS M10 Nuts 16 M10NUTSSS M10 Nuts 16 M10SPRINGWASHERSSS M10 Spring washers 8 M10SPRINGWASHERSSS M10 Spring washers 8 M10SPRINGWASHERSSS M10 Spring washers 8 M10SPRINGWASHERSSS M10 Nuts 8 M10SPRINGWASHERSSS M10 Nuts 8 M10FLATWASHERSSS M10 Nuts 8 M10 Spacers M10 Spacers x 15mm/19mm 8 DayMark Wings - Middle M8 x 50 Sets 32 M8FLAT-WASHERS M8 Flat Washers 32 M8-SPRINGWASHERS M8 Spring Washers 32 M8-SPRINGWASHERSS M10 Flat washers 14 M10SPRINGWASHERSSS M10 Spring washe		·	Qty
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M10SPRINGWASHERSSS M10 Spring washers 14 M10NUTSSS M10 Nuts 14 1750 Tower - Top M10 x 35mm Cap Head Screws 6 M10FLATWASHERSSS M10 Flat washers 6 M10SPRINGWASHERSSS M10 Spring washers 6 M8X50SS M8 x 50mm Sets 4 M8FLAT-WASHERS M8 Flat Washers 8 M8-SPRINGWASHERS M8 Spring Washers 4	Top Plate 3000 to SLB1750		
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1750 Tower - Top M10 x 35mm Cap Head Screws 6 M10FLATWASHERSSS M10 Flat washers 6 M10SPRINGWASHERSSS M10 Spring washers 6 M8X50SS M8 x 50mm Sets 4 M8FLAT-WASHERS M8 Flat Washers 8 M8-SPRINGWASHERS M8 Spring Washers 4	M10SPRINGWASHERSSS	M10 Spring washers	14
M10 x 35mm Cap Head Screws 6 M10FLATWASHERSSS M10 Flat washers 6 M10SPRINGWASHERSSS M10 Spring washers 6 M8X50SS M8 x 50mm Sets 4 M8FLAT-WASHERS M8 Flat Washers 8 M8-SPRINGWASHERS M8 Spring Washers 4	M10NUTSSS	M10 Nuts	14
M10FLATWASHERSSS M10 Flat washers 6 M10SPRINGWASHERSSS M10 Spring washers 6 M8X50SS M8 x 50mm Sets 4 M8FLAT-WASHERS M8 Flat Washers 8 M8-SPRINGWASHERS M8 Spring Washers 4	1750 Tower - Top		
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M8X50SS M8 x 50mm Sets 4 M8FLAT-WASHERS M8 Flat Washers 8 M8-SPRINGWASHERS M8 Spring Washers 4	M10FLATWASHERSSS	M10 Flat washers	6
M8FLAT-WASHERS M8 Flat Washers 8 M8-SPRINGWASHERS M8 Spring Washers 4	M10SPRINGWASHERSSS	0SPRINGWASHERSSS M10 Spring washers 6	
M8-SPRINGWASHERS M8 Spring Washers 4	M8X50SS	(50SS M8 x 50mm Sets 4	
	M8FLAT-WASHERS	M8 Flat Washers	8
M8-NUTS M8 Nuts 4	M8-SPRINGWASHERS	M8 Spring Washers	4
	M8-NUTS	M8 Nuts	4



TRIDENT-2600Q Components		
Fixings		Qty
Radar		
M8-NYLON	M8 Nylon Spacers	4
M8X25SS	M8 x 25 Sets	4
M8-SPRINGWASHERS	M8 Spring washers	4
M8-NUTS	M8 Nuts	4
Retaining Ring		
M6X50SS	M6 x	8
M6FLAT-WASHER	M6 Flast Washers	8
M6SPRINGWASHER	M6 Spring washers	8
M6NUTS	M6 Nuts	8
Base - Core		
M20X40-GALV-SETS	M20 x 40 Galv Sets	4
M20GALVSPRINGWASHERS	M20 Spring Washers	4
M16X110-SS-SETS	M16 x 110 Bolts	2
M16FLATWASHERS	M16 Flat Washers	2
M16FLATWASHERS	M16 Penny washers	2
M16SPRINGWASHERS	M16 Spring washers	2
M16NYLOCK	M16 Nuts	2
M10X35SS	M10 x 35mm Sets	4
M10FLATWASHERSSS	M10 Flat Washers	8
M10SPRINGWASHERSSS	M10 Spring washers	4
M10NUTSSS	M10 Nuts	4
FLOAT	FLOAT SECTIONS/QUADS	4
POST	MOORING POST	1
BALLAST	BALLAST PLATES	7
BASE	DUCK FOOT BASE	1



Check Components

Unpack all components from container. Inspect all components for any damage. Please alert Sealite if any component is missing or damaged.

Assembly

Step 1

Position the Mooring Post upside down on flat level ground.

Step 2

Turn the 4 x Float Sections upside down, to match the mooring post.

Position the 4 x Float Sections around the Mooring Post and start securing 2 x float sections together using M18 Bolts, nuts and washers.

Please coat each bolt in Anti-Seize or Grease before fitting Nuts.

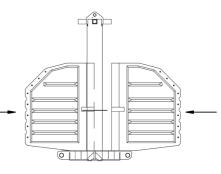
Step 3

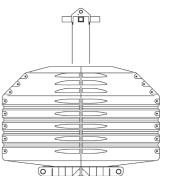
Place a flat washer on the bolt before sliding it through the hole in the Float Section, then fit a second flat washer and a Spring washer on to the bolt before securing with a nut.

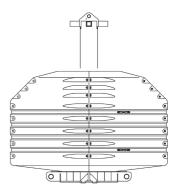
Hand tighten 2 – 4 bolts per side until all four Float sections are secured around the mooring post.

Secure 8 x bolts down each joint on the Float Sections.

Leave the Mooring post and Float to settle for 4 hours or overnight before tightening each bolt a second time. Giving the buoy time to relax in the fitted position will create a better joint.









Step 4

Use a crane to turn the Float and Mooring Post upright.

Please Note: The buoy weighs over 2.3 tonnes. Please be careful when rotating the Buoy.



The buoy is still unstable even when fitted with the supporting timber and assembly staff must be careful if standing on the Float Sections.

Step 5

Open the door at the base of the Tower Assembly. Position and secure the 55Ah battery in the base of the Tower Assembly using the 2 x Hand Wheels and Battery Clamp.

Please Note: Push the door inwards and hold while releasing the latch, then open the door.



Connect the negative (-) and positive (+) leads to the battery terminals.

Please Note: Cover the terminals with a protective grease after connection and testing is finalised.

Step 7

Test the Light by covering it with a dark cloth or jacket and wait 1 minute for activation.

Please refer to the SL125 Manual for more information on setting flash codes, intensity and troubleshooting.

Step 8

Position and secure the top mark to the Tower Assembly, using 4 x M8 Socket Head Cap Screws, Flat and Spring Washers and Nuts.

Step 9

Lift and secure the Tower Assembly onto the Mooring Post.

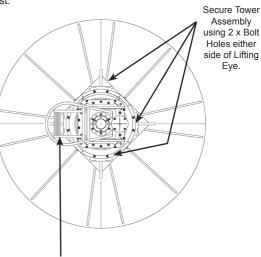
The Tower Assembly MUST be positioned with the ladder and Hatch located on a corner of the Mooring Post between the Lifting Eves.

Secure the Tower to the Mooring Post in 8 x places using M10 x 90mm Long Bolts, Flat and Spring Washers and Nuts

USE THE Bolt Holts either side of the Lifting Eyes when securing the Tower Assembly.



- DO NOT USE THE GUARD RAIL AS A LIFTING POINT
- DO NOT USE THE TOP MARK AS A LIFTING POINT.
- DO NOT USE THE LADDER AS A LIFTING POINT
- DO NOT USE SOLAR PANELS AS A LIFTING POINT.
- ONLY USE A SLING AROUND THE BODY OF THE TOWER TO MOVE INTO POSITION



Eye.

Ladder to be positioned as shown.



Step 10

Slide the Day Marks into position. The top of the Day Mark post fits over the Locating Post on the Day Mark Mounting Bracket, fitted below the corners of the Solar Panels. Secure the base of the Day Mark Post to the base of the Tower Assembly using the M10 Bolts, Nuts, Flat and Spring Washers per post.

Please Note: The Locating Post on the Day Mark Mounting Bracket may have to be loosened when fitting Day Marks. Please ensure the Location Posts are secured afterward.

Step 11

Fit the ladder to the Tower Assembly.

Secure the Ladder Mounting Plate to the base of the ladder using two M10 x 25mm Long Bolts, Nuts, Flat and Spring Washers.

Secure the Ladder Mounting Plate to the Mooring Post using 2 x M10 x 45mm Bolts, Nuts, Flat and Spring Washers.

Step 12

Finish securing the Tower Assembly to the Mooring Post.

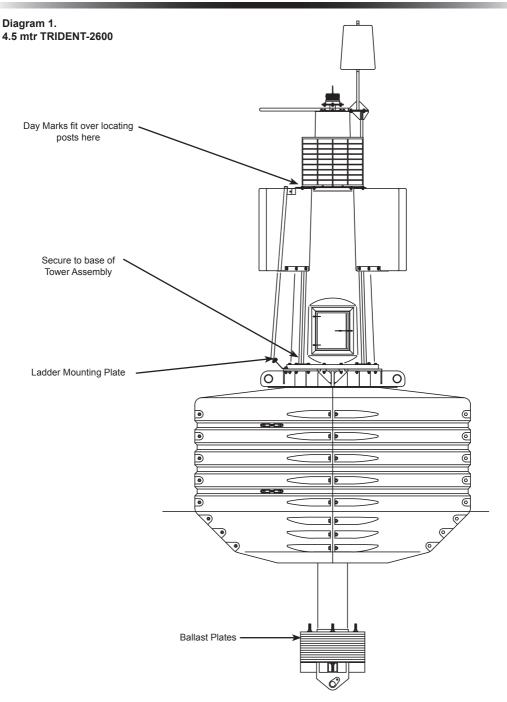
Check that all M10 x 90mm Long Bolts Nuts, Flat and Spring Washers are secured correctly.

Step 13

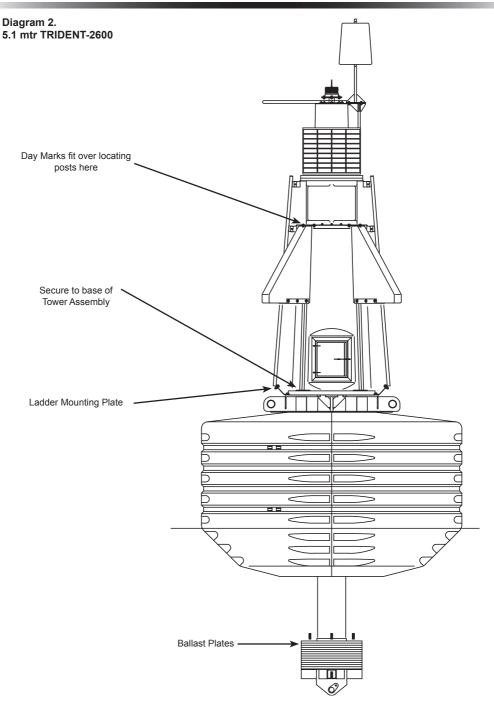
Lift the Buoy, ONLY using the Lifting Eyes on the Mooring Post.

Please do not leave the Buoy lying on the Float Sections, they may deform while in this position if left of more than 1 hour.









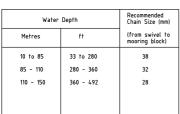
Mooring Post

62

Ballast (Carbon Steel)



TRIDENT-2600Q Mooring Diagram

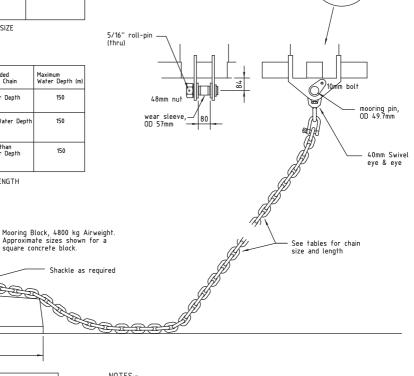


CHAIN SIZE

	Recommended Length of Chain	Maximum Water Depth (m)
Best Practice (up to 6kts current)	3 x Water Depth	150
For Reduced Watch Circle (where current is 2 to 4 kts)	2-1/2 x Water Depth	150
For minimum Watch Circle (use only where current < 2kts)	Not less than 2 x Water Depth	150

CHAIN LENGTH

square concrete block.



Ballast rod nuts tack

welded to ballast rod

after assembly

General Note

1600

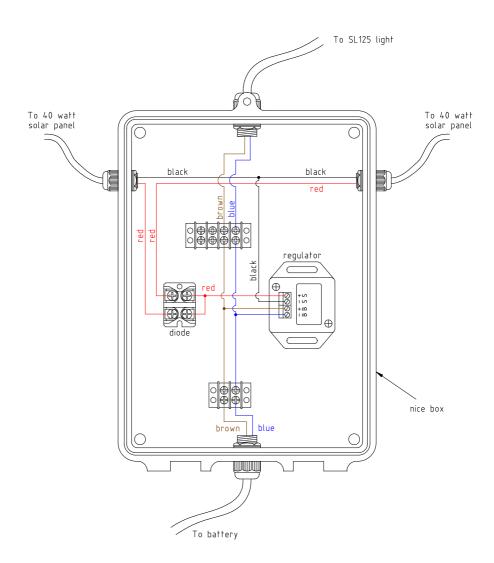
Recommendations given herein are advisory only. As each buoy installation varies, the buoy operator should establish fitness for purpose prior to installation.

NOTES:-

- 1/ Shackles, swivel and chain are 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.

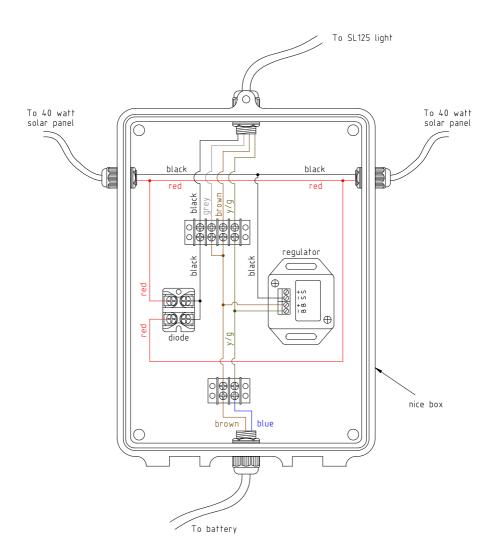


Standard Wiring Diagram





GSM Wiring Diagram





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 swivel and shackle axis and check the tapered pins on the mooring pin.
 Any worn swivels and 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 V2.2

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 online. 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.
- 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;

- The warranty is applicable to buoys manufactured from 1/1/2009.
- 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
 - the defect is due to the product being repaired or tampered with by anyone other than Sealite or authorised Sealite repair personnel.
- 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.
- 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)



Monitoring & Control Systems



Bridge & Barge Lights



Marine Buoys (up to 3mt in diameter)



Mooring Systems & Accessories



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