



Aids to Marine Navigation

PRODUCT CATALOGUE 2018



Sealite, international designer
& manufacturer of complete
Aids to Navigation systems

Welcome

We are proud to present our 2018 Sealite product catalogue.

Now in its 9th edition, this catalogue provides the widest range of marine aids to navigation products in the marketplace today, and we hope it serves as a key reference guide for you over the coming year.

Since its first publication, Sealite has become a truly global manufacturer of marine equipment, with office and manufacturing locations in Australia, Singapore, the United Kingdom and the United States.

Our product line now includes small marker buoys and lights through to large scale technical solutions for ports and harbours. In some regions, we can also offer their installation, commission and maintenance.

Our vision is to be the leader in technically advanced navigations aids through our people, process & commitment to quality.

At the core of this vision is our dedication to new product development, and the past 12 months have been no exception.

This past year Sealite USA developed more than 15 new buoy shapes and sizes dedicated to the US marketplace. Our US business continues to grow by designing and manufacturing solutions for local clients.

We also continued to develop and release new products to improve navigation for our global marine customers, including our SL75 lantern – the first in its category with Bluetooth® for improved configuration and servicing. Using Bluetooth® technology, personnel can now perform many maintenance tasks from the safety of their vessel using a handheld tablet. And after launching at the most recent IALA conference in Spain, the SL155 and SL300 range of products continue to be selected by national authorities as their exclusive line of LED marine lanterns up to 21NM.

As always, I would like to take this opportunity to personally thank our local and international staff who work tirelessly to make our products simply the best in the industry.

Thank you for taking the time to read our 2018 Sealite catalogue, and trusting us to provide these important products. We look forward to working with you on your future projects.

Sincerely,



Chris Procter
Chief Executive Officer



About Us

Sealite is the world's fastest growing manufacturer of marine aids to navigation.

Headquartered in Australia and with manufacturing and office locations in the United States, United Kingdom and Singapore, the Sealite team is dedicated to servicing the marine industry through the efficient design and production of leading-edge products.

The company operates purpose-built facilities and employs a highly skilled team of engineers and production specialists in its operations. Part of Sealite's business philosophy is to invest in state-of-the-art equipment to achieve superior efficiencies and the highest levels of quality control. Keeping the manufacturing process in-house achieves better value for customers, superior quality standards and faster delivery times.

All Sealite products are manufactured to exacting standards under strict quality control procedures that comply with ISO 9001:2015 conditions.

Through organic growth and strategic acquisitions, Sealite has broad capabilities to meet the demands of new product design, manufacture, as well as supply, installation and maintenance for maritime clients globally.

Our Vision

We believe technology improves navigation.

Our vision is to be the global leader of technically advanced navigational aids through our people, process and commitment to quality.

Our Values

- Customer service
- Entrepreneurial spirit
- Ethics and integrity
- OH&S and wellbeing
- Operational discipline
- Professional pride
- Unity



Sealite's Head Office, Australia



Sealite USA



Sealite United Kingdom



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Manufacturing Capabilities



In-house team of engineers design and develop product



Technicians supervising Sealite's in-house surface mount assembly line



Precision light measurement with Sealite's goniophotometer



Extensive use of robotics throughout the manufacturing process

Design

To service the needs of our customers worldwide, Sealite employs a team of professional engineers who design and develop our products. Mechanical, structural and optic systems are developed from concept to completion.

Surface Mount Technology (SMT)

Sealite's surface mount assembly line is an automated system which is used for high speed and precision placement of electronic components onto printed circuit boards (PCB). This allows Sealite to control every aspect of the construction and testing of the purpose built PCBs.

Photometric Testing

Sealite operates a goniophotometer for light measurement of marine lantern products. The system includes a curved mirror for zero-length photometry, and a spectroradiometer for colour measurement.

Through this process Sealite is able to quickly and accurately validate horizontal and vertical light distribution, colour and peak intensity of the products to ensure they consistently meet industry standards.

For high-precision sector lights, Sealite is able to accurately measure intensity and colour transition between sectors.

Environmental Testing

Sealite products are subjected to comprehensive environmental tests including icing, salt spray, shock and vibration, ESD and temperature to guarantee superior performance in the harshest environments.





Assembly

All Sealite lights are assembled to exacting standards and strict guidelines.

Robotic automation is used extensively throughout the manufacturing process, including assembly, programming and testing.

Every high-intensity marine light processes through a 24 hour burn-in test, whereby proprietary software is used to cycle the lights through a series of operating conditions repeatedly over a 24 hour period. This is just one of the final inspection tests performed on every product we build.

Inventory

To service the often 'urgent need' requirements of our customers, Sealite maintains a working inventory of finished goods.

In emergency cases, products can be shipped within 24hrs of order placement, for destinations around the world.

Rotational and Injection Moulding

The Sealite buoy division provides turn-key production of navigation aids, from tooling development, raw material selection and production, to final testing and inspection. Keeping this entire process in-house allows us to guarantee the superior quality of the products we put the Sealite name on.

Sealite is one of the only full-line navigation aid producers to manufacture marine buoys on-site with state-of-the-art rotational moulding equipment. In-house manufacturing allows us to ensure marine buoys are robust and able to withstand the severest of conditions.

The lenses produced by Sealite are moulded on in-house, modern injection machines ensuring superior optical performance.

Quality Control



All Sealite's products are manufactured under a process that complies with ISO 9001:2015 conditions for quality assurance, and continual process improvement. They are subjected to strict quality control procedures to ensure that each and every product will meet or exceed customer expectations before they are dispatched.



Sealite's marine buoys are manufactured using state-of-the-art rotational moulding equipment



Sealite's injection moulding facility



The wall-thickness of each buoy is measured in critical areas by ultrasound



Tooling design & production facility



Sealite Global Services

Consulting

To assist clients to fulfil their exact needs, Sealite United Kingdom Ltd offers a service conducted by their team of experts which includes site surveys and design of the client's AtoN requirement. From concept of vessel channel or approaches, Sealite offers full turnkey solutions including towers, mooring selection and power systems.



Project Management

Sealite UK are able to project manage installations on their clients' behalf;

- Proposal development and liaison with relevant lighthouse service
- Equipment configuration and system F.A.T prior to installation
- Staged work-plans to suit customer requirements or seasonal weather conditions
- Provision of temporary aids during project construction
- Adherence to industry regulations
- Propagation of notices to marine authorities on client's behalf to suit project phases

Including;

- 
- Site survey
 - System design
 - Support structures and towers
 - Supply
 - Installation and alignment
 - Commissioning



Installation & Commissioning

On site installation and commissioning of Sealite equipment is available through Sealite United Kingdom Ltd and includes either all or as selected.

- Installation of new navigation aids
- Buoy deployment and maintenance
- Civil works of towers and structures
- Remote monitoring and control
- Solarisation of existing navigation aids
- Alignment of precision light sources
- Lighthouse modernisation



Maintenance

Sealite UK offers ongoing aids to navigation maintenance services for those clients in the United Kingdom who do not have their own resources or plant, and includes buoy maintenance involving chain replacement.

Buoy Leasing & Rentals

A selection of Sealite buoy products are available for lease or rental;

- Flexible lease/rental periods
- Full packages available complete with mooring and all relevant equipment plus laying on site with or without customers vessels
- Option to purchase at end of lease/rental period

Training

Sealite offers comprehensive navigation aid training programs to IALA standards that can be conducted on site at Sealite headquarters, or at client premises.

Courses can be customer or product specific to suit client's personnel levels of competency.

Typical training programs include;

- Selection of appropriate equipment
- Programming and setup of aids to navigation, SIM card, AIS units and programmes
- Selection of appropriate solar systems and/or mains/utilities battery backup
- Installation techniques
- Maintenance and servicing



Typical Projects

TRIDENT-2600 Ocean Buoy, Europe



PROJECT OVERVIEW

Application:	Replace steel buoy lateral channel markers
Products:	9 x TRIDENT-2600 Ocean Buoys with Solar Marine Lanterns
Site:	Undisclosed
Owners:	Ministry of Transport
Location:	Europe

BENEFITS

- Polyethylene construction
- Innovative design and robust construction
- Huge visual area for navaid recognition
- Convenient forklift access points to safely manoeuvre the buoy assembly
- Stands flat on service deck
- Easy to deploy and service

Solution

Chosen to replace existing steel buoys, the lightweight, durable polyethylene buoys require minimal maintenance and provide a huge visual area for navaid recognition. The Trident-2600 buoy was specifically designed to provide an easy solution for customers worldwide through its safe and easy handling features. The unique design of the mooring post and flat base means the buoy can be stored upright in service yards and transported by truck and services vessels for increased handling safety.

In selecting Sealite, the customer chose a product that could be delivered on schedule, within budget and be assembled at the quayside ready for immediate deployment.

"Having designed a buoy that is transportable and requires minimal assembly, offers our clients many advantages – customers can now receive a timely, complete solution of delivery, installation and servicing from Sealite UK."

Mr Bob Simons, Sealite UK

Ocean Buoys with Solar Marine Lanterns, Dubai Marina, UAE



PROJECT OVERVIEW

Application: Used to mark a structure

Products: POSEIDON-1750 Buoys & SL-C310 Solar Lanterns

Site: Dubai Marina

Location: UAE

BENEFITS

- Assisting vessels with safe navigation
- Excellent buoyancy & stability, and easy to deploy and service
- Able to be shipped worldwide easily and economically
- LED solar powered lantern with extraordinary power to light output efficiency

Solution

Built over water in Dubai Marina is a concrete pile structure holding a runway for sky diving planes. Marking was required to help boats and vessels from the nearby marina to navigate around the structure. Three Cardinal Marks with marine lanterns were used for the installation and chosen for their specifications, ease of installation and long warranty.

The lightweight buoys were installed in 4 hours using just a 20ft crane, semi rigged boat with 50hp engine and minimal maintenance personnel, saving the customer considerably as there was no need for a barge and other heavy-duty equipment. Local Sealite Authorised Distributor North West Marine L.L.C. provided this turn-key solution including technical expertise, buoy fit-up and installation.

Typical Projects

Whitehall Ferry and St Georges Terminal, New York, USA



PROJECT OVERVIEW

Application: Six precision sectored Port Entry Lights (PEL) with custom power supplies.

Products: Sealite Port Entry Light

Site: Whitehall Ferry Terminal (Manhattan) & St. Georges Ferry Terminal (Staten Island)

Location: New York, USA

BENEFITS

- Low power consumption – uses 30 watts to achieve intensities that previously required 250 watts
- Assists vessels with safe navigation during low light visibility weather conditions
- GSM monitoring allows the light to be remotely monitored and controlled
- Ultra-compact design removes the need for split assemblies and realignment on difficult sites

Solution

The benefit of a programmable flash pattern of each LED and the light intensity piercing through low visibility weather conditions in the last 1.5NM approach to berth was the major benefit in using Sealite's PEL. The additional advantage of its compact form factor, light weight and IP67 rated weather proof enclosure, gave the Staten Island Ferry captain the confidence that the product would withstand the unpredictable and harsh weather conditions. Advanced features of the Sealite PEL including convenient PC programming via USB, high visibility, low power consumption, and monitoring and reporting were the main reason Sealite was selected. Programming is achieved via a built-in weatherproof port, eliminating the need to open the unit and expose it to the elements. The port entry light will not require focusing or re-lamping while in service.

"The visual aid is an addition to electronic charts and GPS, with the end goal being to reduce risk through Sealite technology. The lights are activated only when there is low visibility, and when the Captain sees a steady light he knows he is heading in the correct direction."

Joe Richter, Sea Safety International

Eastland Port Entry Solutions, Gisborne, New Zealand



PROJECT OVERVIEW

Application:	To provide a complete navigational Port Solution
Product:	SL-PEL-10, SL-RL, SL-310 and SL-155NPS sectored lanterns, and Atlantic-2600 buoys
Site:	Eastland Port
Location:	Gisborne, New Zealand

BENEFITS

- Low power consumption – uses 30 watts to achieve intensities that previously required 250 watts
- Assists vessels with safe navigation during low light visibility weather conditions
- Lanterns do not require focussing or re-lamping while in service, demonstrating value for money
- Buoy is a 5-part modular design, making it faster and easier to assemble

Solution

Eastland Port has embarked on a 5-year plan of building a 'Port of the future', with a 1.3-hectare expansion to assist the port's principle export commodity. It was important the port offered the latest navigation aids to assist vessels up to 30,000 tonnes and lengths of 190 metres and thus a need for a complete port solution.

First installed, was a port entry system for the Waikanae Beach entrance providing a safe approach in both day and night to the Gisborne loading facility. The port entry system included an LED port entry light, a non-precision sectored lantern and AIS monitoring. The AIS solution provides mariners with real-time identification of the station, its availability and position.

The second component was to replace a 45 year old, three-tonne, mussel covered steel channel marker buoy, with Sealites lightweight 970kg, 2.6 metre diameter, UV stabilised polyethylene buoy. This robust, environmentally friendly buoy attracts little marine growth, is double the height of the old buoy and requires no painting. The Atlantic-2600 buoys were positioned in a slightly different location to the old buoy due to ships getting bigger and required a more precise indication of the channel edge.



Solar Marine Lanterns



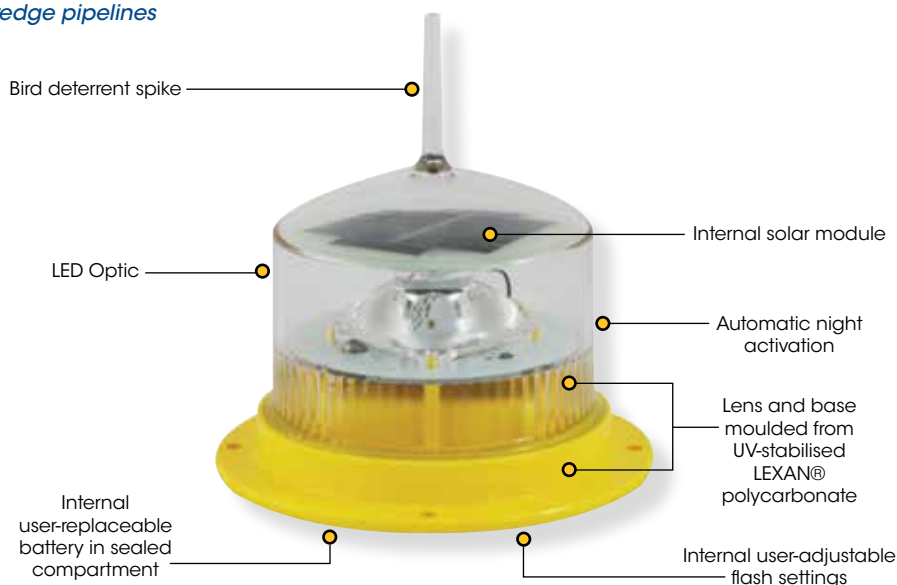
The Sealite range of Solar LED Marine Lanterns are designed to be maintenance-free and have a service life of up to 12 years[^]. Each product incorporates the latest in LED, solar, battery, electronics and moulding technology, and is designed to meet IALA recommendations for aids to navigation.

Through a combination of solar module sizes, battery capacities and light output customers are able to select the most appropriate and economical light for their requirement.

1-2NM+ Solar Marine Lantern

SL-15

The equipment complies with requirements of the U.S Coast Guard in 33 CFR part 66 for private aid to navigation and 33 CFR part 88.15 for lights on dredge pipelines



The Sealite Advantage

- User-adjustable flash characters
- User-replaceable battery in sealed battery compartment
- NiMH battery for long service life & wide temperature range
- Completely sealed & self-contained using advanced UV-sealing
- Installs in minutes & operates maintenance-free for up to five years
- IP68 waterproof

The Sealite SL-15 1-2NM+ compact LED light is exceptional value and incorporates some of the most advanced technology available. In the tradition of Sealite lanterns, the SL-15 is designed to be maintenance-free and have a service life of over 5 years.

The SL-15 can be installed in minutes and requires no operator intervention. The SL-15 has a rotary switch to allow users to change the flash character of the light without the need for special tools or programmers.

During daylight hours the solar module will charge the battery, and the lantern will automatically begin operation at dusk – once the ambient light threshold drops sufficiently.

The SL-15 features Sealite's Single LED Optic which boasts exceptional power to light output efficiency. The tough outer polycarbonate lens incorporates an environment-friendly spike – deterring unwelcome bird life.

The internally housed battery is user-replaceable after years of reliable service.

The unit is sealed using advanced UV-sealing, enabling a rugged and complete waterproof seal capable of prolonged and deep immersion (IP68).

Optional ON/OFF Switch

The SL-15 is also available with an optional ON/OFF switch for temporary installations such as worksites.





User-replaceable battery



SL-15 with optional ON/OFF switch

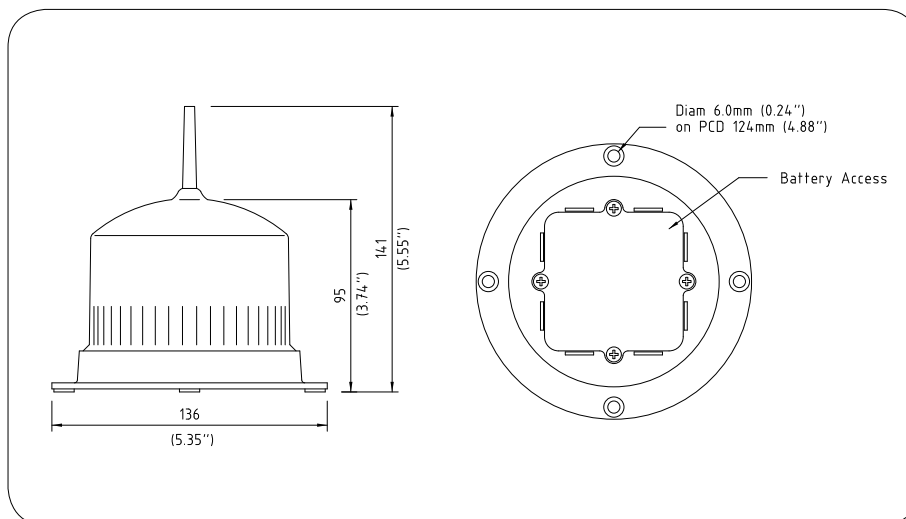


Flash characteristic is selected via internal rotary switch located in the battery compartment

User-Adjustable IALA Flash Characteristics

FLASH SETTING CODE	Flash Sequence (on, off, on...)
0	STEADY LIGHT (intensity reduced)
1	0.5, 1.0
2	0.5, 3.5
3	1.0, 3.0
4	0.5, 5.5
5	0.3, 0.7
6	0.3, 0.7, 0.3, 0.7, 0.3, 0.7, 0.3, 15.7
7	0.3, 1.7
8	0.3, 2.2
9	0.5, 2.0
A	0.3, 2.7
B	0.5, 2.5
C	0.7, 2.3
D	0.5, 4.5
E	1.0, 4.0
F	Custom Setting

Other flash patterns are available on request



SPECIFICATIONS* SL-15

Light Characteristics

Light Source
Available Colours
Typical Maximum Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Reflector Type
Available Flash Characteristics

Intensity Adjustments

LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Autonomy (days)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE
IALA
Quality Assurance
Waterproof

Intellectual Property

Patents
Trademarks

Warranty*

Options Available

LED
Red, Green, White, Yellow, Blue
Red - 6.2 Green - 7.6 White - 6.8 Yellow - 5.9
AT @ 0.74: 1-2+
AT @ 0.85: 1.1-2.3+
360
7
Single LED Optic
16 user-adjustable IALA flash characteristics (other flash patterns available on request)
32 automatic step-down settings based on power demand of flash code selection
>100,000

Refer to Sealite Power Calculator
Integrated
3.6
>50 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
0.45

High grade NiMH
2.4
3.6

LEXAN® Polycarbonate - UV-stabilised
LEXAN® Polycarbonate - UV-stabilised
98 / 3 7/8
Single LED Optic
4 x 6mm mounting holes
141 / 5 1/2
136 / 5 3/8
0.5 / 1 1/8
Up to 12 years ^

EN61000-6-1:2007, EN61000-6-3:2007
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68

US Pat. No. 6,667,582, AU Pat. No. 778,918
SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- ON/OFF switch
- Custom flash patterns
- 50mm pole mount adapter plate
- IR Remote Programmer

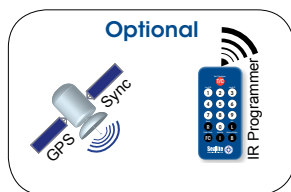
* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
^ Refer to the Sealite website under the warranty section



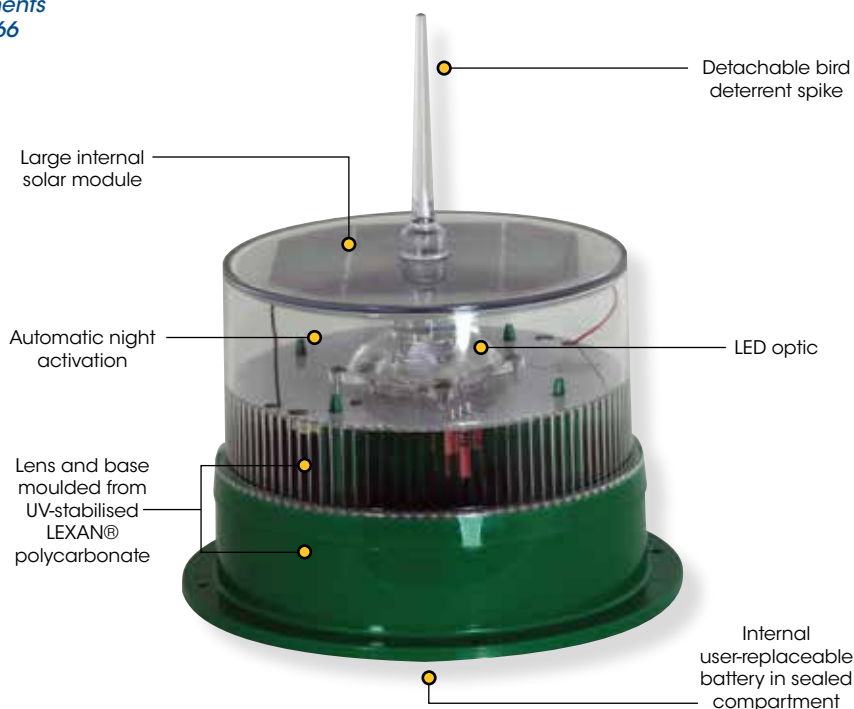
2-3NM+ Solar Marine Lantern

SL-60

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66



Shown with optional 200mm bolt pattern base



The Sealite Advantage

- IR programmable
- 256 IALA flash patterns
- User-replaceable battery in sealed battery compartment
- NiMH battery for long service life & wide temperature range
- Multiple intensity settings
- ON/OFF storage switch
- IP68 waterproof

The Sealite SL-60 is the world's most popular and versatile 2-3NM+ solar marine light.

The SL-60 can be installed in minutes and requires no operator intervention. The flash characters are easily adjusted onsite by the user, and the lantern has a permanent ON/OFF switch for easy storage.

The SL-60 comes with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality.

Programmable features include; flash code adjustment, battery diagnostics, lux adjustment, ON/OFF and hibernation mode.

Optional GPS Synchronisation

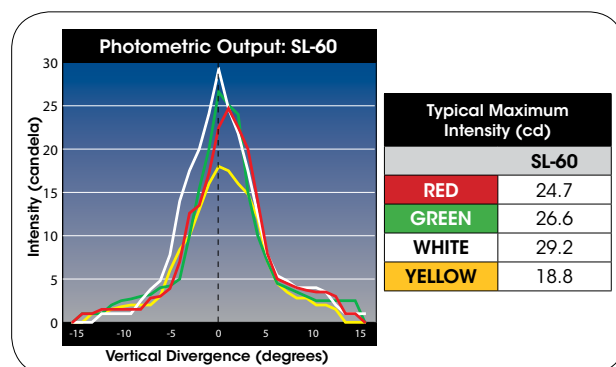
The SL-60 is available with optional GPS Synchronisation. Two (2) or more lights can be synchronised to flash in unison via an internal GPS module. When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

Optional 200mm Bolt Pattern Base

The SL-60 is available with optional large 200mm bolt pattern to suit installation requirements.

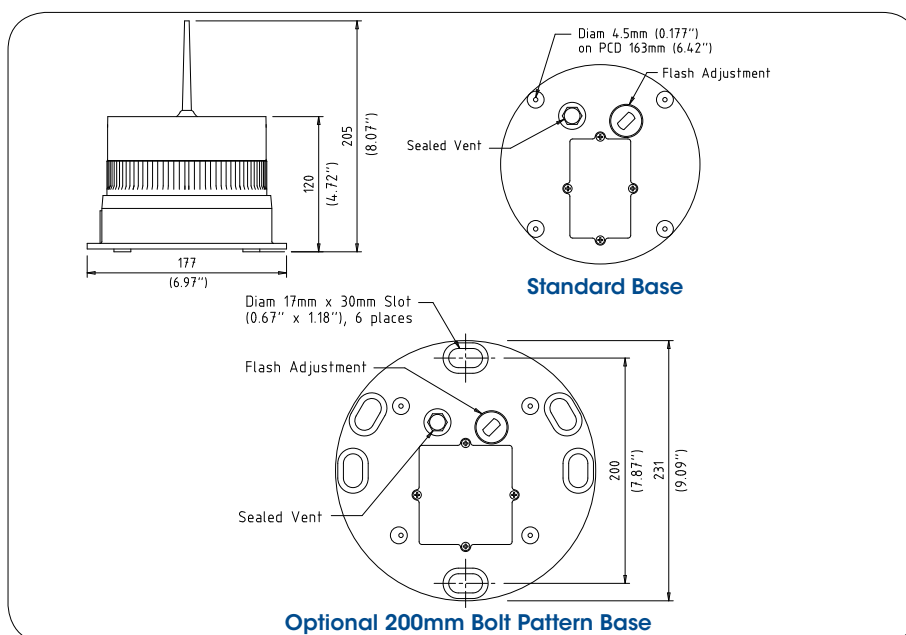
Optional Larger Battery Pack

In regions where additional autonomy is required, the SL-60 can be supplied with a larger 8Ah or 16Ah battery pack - this greatly extends the operational autonomy.





User-replaceable battery



Sochi, Russia



Cadiz, South of Spain



Barcelona, Spain

SPECIFICATIONS * *

SL-60

Light Characteristics

Light Source
Available Colours
Typical Maximum Intensity (cd)†
Visible Range (nm)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Autonomy (days)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)

Product Life Expectancy

Certifications

CE
IALA
Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

LED
Red, Green, White, Yellow, Blue
Red - 24.7 Green - 26.6 White - 29.2 Yellow - 18.8
AT @ 0.74: 2-3+
AT @ 0.85: 2.3-3.5+
360
7
Up to 256 IALA recommended (user adjustable)
Adjustable in 25% increments
>100,000

Refer to Sealite Power Calculator
Integrated
3.6
>20 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
1.4

High grade NiMH
4
3.6

LEXAN® Polycarbonate - UV-stabilised
LEXAN® Polycarbonate - UV-stabilised
150 / 5 7/8
Single LED optic
4 x 4.5mm mounting holes
205 / 8 1/8
177 / 7
0.9 / 2 1/8 (SL-60LB 1 / 2 1/4. SL-60-8AH 1 / 2 1/4. SL-60LB-8AH 1.1 / 2 1/4.
SL-60LB-16AH 1.5 / 3 1/8)
Up to 12 years ^

EN61000-6-1:2007, EN61000-6-3:2007
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- IR Programmer
- GPS Synchronisation
- 8Ah battery
- 16Ah battery
- 200mm bolt pattern base (standard for UK versions)
- 50mm pole mount adapter plate

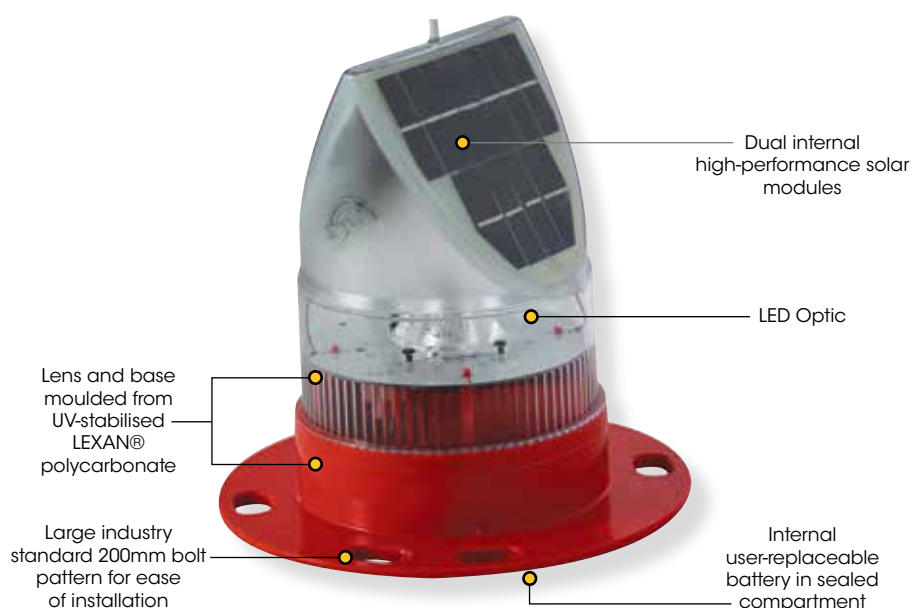
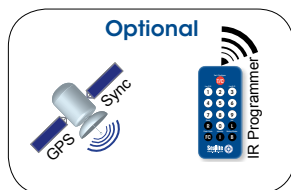


- Specifications subject to change or variation without notice
- * Subject to standard terms and conditions
- † Intensity setting subject to solar availability
- ^ Refer to the Sealite website under the warranty section

2-3NM+ Solar Marine Lantern

SL-70

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR Part 66 as well as 33 CFR Part 67 for Class 'C' structures



The Sealite Advantage

- IR programmable
- Reliable year-round operation in low sunlight conditions
- 256 IALA flash patterns
- User-replaceable battery in sealed battery compartment
- NiMH battery for long service life & wide temperature range
- Multiple intensity settings
- ON/OFF storage switch
- IP68 waterproof

The Sealite SL-70 is exceptional in its unique ability to be able to 'track the sun' and operate reliably in low sunlight conditions. The SL-70 has been proven to operate as a 2-3+ nautical mile compact buoy lantern in various low sunlight environments such as Britain, Canada and Europe.

Made from tough, durable polycarbonate and using the latest high intensity LEDs, the SL-70 lantern boasts dual high-performance solar modules. These solar modules are angled to obtain maximum sunlight capture, allowing the unit to operate reliably in a range of low sunlight environments.

The SL-70 can be installed in minutes and requires no operator intervention. The flash characters are easily adjusted onsite by the user, and the lantern has a permanent ON/OFF switch for easy storage.

The SL-70 comes with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality. Programmable features include; flash code adjustment, battery diagnostics and lux adjustment.

Optional GPS Synchronisation

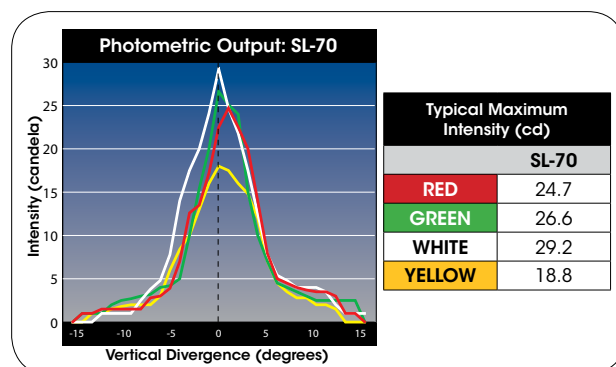
The SL-70 is available with optional GPS Synchronisation. Two (2) or more lights can be synchronised to flash in unison via an internal GPS module. When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting - ideal for rivers, marina entrances, channel marking and aquaculture.

Optional Light Configuration

In high sunlight regions, the SL-70 intensity settings may be increased to provide a range of >3 nautical miles (colour dependant).

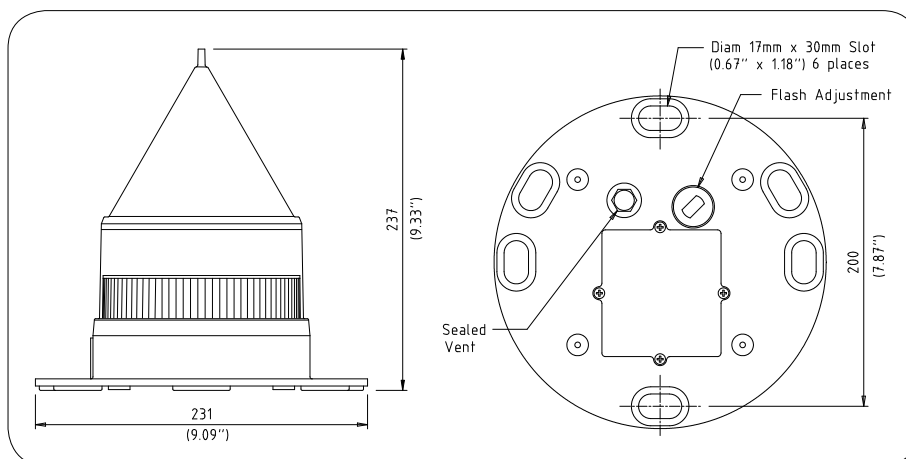
Optional Larger Battery Pack

In regions where additional autonomy is required, the SL-70 can be supplied with a larger 16Ah battery pack - this greatly extends the operational autonomy.





User-replaceable battery



SPECIFICATIONS* *

SL-70

Light Characteristics

Light Source
Available Colours
Typical Maximum Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Autonomy (days)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE
IALA
Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

LED
Red, Green, White, Yellow, Blue
Red - 24.7 Green - 26.6 White - 29.2 Yellow - 18.8
AT @ 0.74: 2-3+
AT @ 0.85: 2.3-3.5+
360
7
Up to 256 IALA recommended (user adjustable)
Multiple intensity settings
>100,000

Refer to Sealite Power Calculator
Integrated

3.6
>30 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
2.5 (2 x 1.25watt)

High grade NiMH
8
3.6

LEXAN® Polycarbonate - UV-stabilised
LEXAN® Polycarbonate - UV-stabilised
150 / 5⁷/₈
Single LED Optic
200mm bolt pattern
240 / 9¹/₂
231 / 7¹/₈
1.4 / 3¹/₈ (SL-70-16AH 1.6 / 3¹/₂)
Up to 12 years ^

EN61000-6-1:2007, IEC61000-6-1:2005, EN61000-6-3:2007, IEC61000-6-3:2006
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

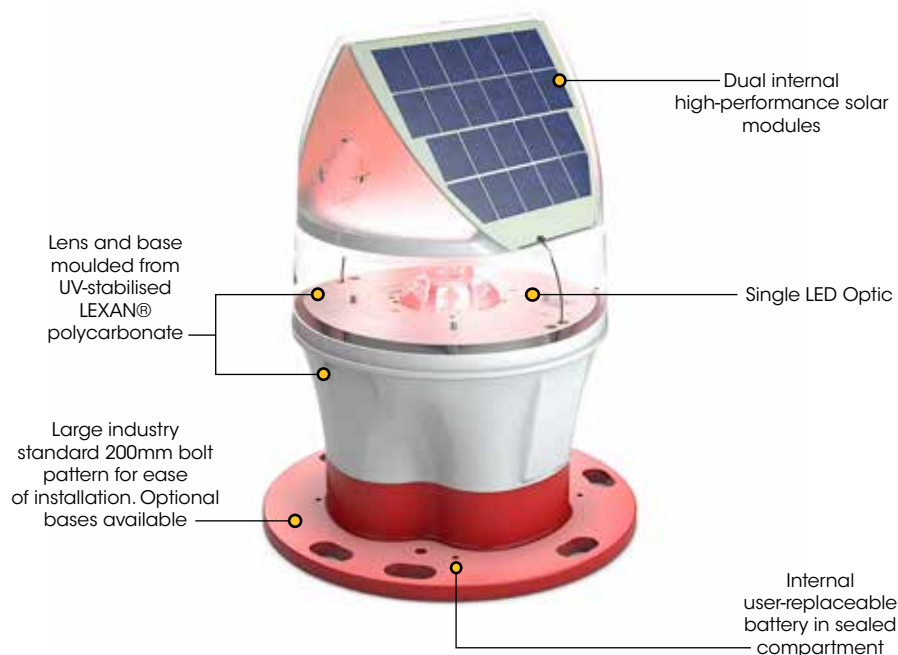
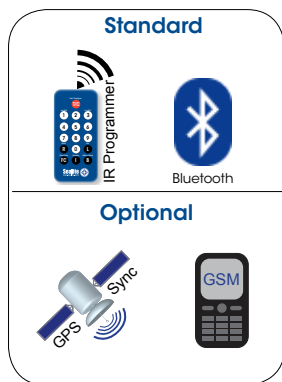
- IR Programmer
- GPS Synchronisation
- 16Ah battery
- 50mm pole mount adapter plate



- Specifications subject to change or variation without notice
- * Subject to standard terms and conditions
- † Intensity setting subject to solar availability
- ^ Refer to the Sealite website under the warranty section

3-5NM Solar Marine Lantern

SL-75



The Sealite Advantage

- Up to 5NM visible range
- Bluetooth® programmable
- Optional GPS Synchronization
- Optional GSM monitoring
- Reliable year-round operation in low sunlight conditions
- Up to 310 Flash characters including 256 IALA Flash characters and customer definable character
- High Capacity NiMH battery for long service life & wide temperature range

SealitePro™



The SL-75 is a next-generation solar marine lantern with up to 5NM visible range, made from tough, durable polycarbonate and utilising the latest in technology.

Bluetooth® for programming and maintenance

Completely programmable via the new Bluetooth® connected SealitePro™ mobile application, the SL-75 can be configured and monitored from a distance up to 50 meters. An inbuilt solar calculator confirms the lanterns ability to operate at the set location, ensuring optimal operating performance.

Dual High Performance Solar Modules

The SL-75 lantern boasts dual high-performance solar modules which are tilted to obtain maximum sunlight capture, allowing the unit to operate reliably in a range of low sunlight environments. The tilted solar modules are also less susceptible to fouling or snow cover.

Improve productivity and reduce risk to personnel

Time savings for maintenance work are maximised as diagnostics can be interrogated via the mobile device. Risk to maintenance personnel is greatly reduced as many maintenance tasks can be performed from the safety of a vessel or without the need to climb structures.

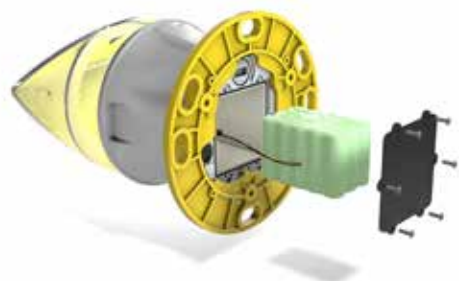
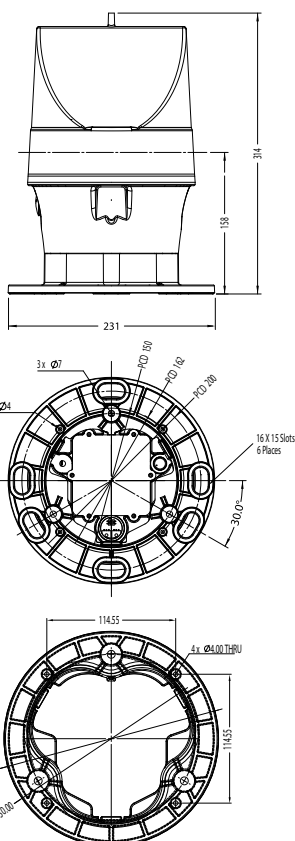
Optional GPS Synchronisation

The SL-75 is available with optional GPS Synchronisation. Two (2) or more lights can be synchronised to flash in unison via an internal GPS module.

Optional GSM Monitoring & Control System

The SL-75 may also be fitted with GSM Cell-Phone Monitoring and Control - enabling users to access real-time diagnostic data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated phone numbers. Users can also have alarms and reports sent to designated email addresses.





SPECIFICATIONS * *

Light Characteristics

Light Source
Available Colours
SL-75-7D Typical Maximum Intensity (cd)
SL-75-5D Typical Maximum Intensity (cd)
Visible Range (NM/km)
Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

High efficiency LED
Red, Green, White, Yellow, Blue
Red - 98 Green - 104 White - 131 Yellow - 65
Red - 143 Green - 109 White - 183 Yellow - 87
3-5 / 5.5 - 9
360
7.5 (standard) / 5 (optional)
310 plus custom character
Multiple intensity settings
>100,000

Electrical Characteristics

Circuit Protection
Nominal Voltage (VDC)
Autonomy (days)
Temperature Range

Integrated
3.6
>30 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Solar Characteristics

Solar Module Type

Multicrystalline

Power Supply

Battery Type
Battery Capacity (Ah) - Standard
Battery Capacity (Ah) - Large
Nominal Voltage (V)

High grade NiMH
17.2
21.5
3.6

Physical Characteristics

Body Material
Lens Material
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (lbs/kg)
Product Life Expectancy

LEXAN® Polycarbonate - UV stabilized
LEXAN® Polycarbonate - UV stabilized
Single LED Optic
3 types: 3 & 4 hole 200mm bolt pattern, 3 hole 150mm bolt pattern, 4 hole 162mm bolt pattern
314 / 12 3/8
231 / 9 1/8
5.5 / 2.5
Up to 12 years

Certifications

EMC

FCC Part 15 Rules & ANSI C63.4: 2014.
EN61000-6-2: 2005 (IEC 61000-6-2:2005) Part 6-2 Immunity, EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) Electromagnetic compatibility (EMC) - Part 6-4 Emission.
IEC 61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test.
IEC 61000-4-3: 2006 Ed 3 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity.

Signal colours compliant to IALA E-200-1

ISO9001:2008
IP68

IALA

Quality Assurance
Waterproof

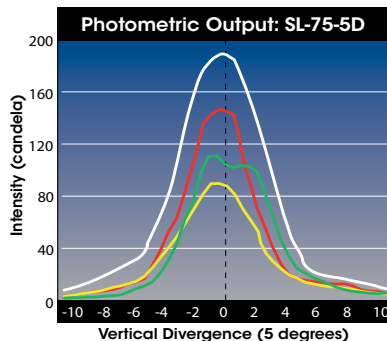
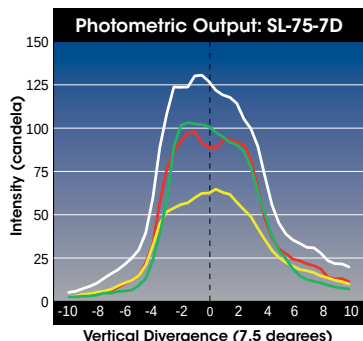
Intellectual Property

Trademarks

Warranty *
Options Available

SEALITE® is a registered trademark of Sealite Pty Ltd

3 years
GPS Synchronisation
Bird Deterrent
SL-75-5D (5 Degree divergence model)
GSM Monitoring & Control System
Charging Port

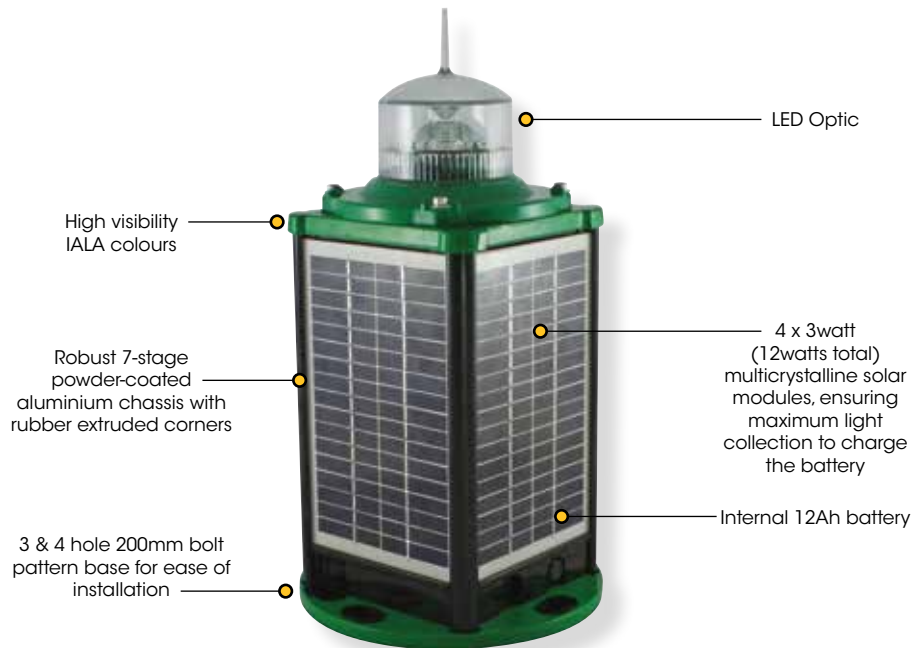
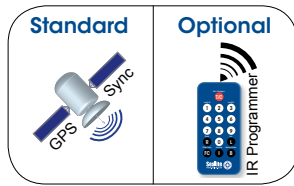


Typical Maximum Intensity (cd)		
	SL-75-7D	SL-75-5D
RED	98	143
GREEN	104	109
WHITE	131	183
YELLOW	65	87

3-5NM+ Solar Marine Lantern

SL-C310

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66



The Sealite Advantage

- IR programmable
- Fitted with on-board GPS as standard for synchronised flashing
- Simplicity of design ensures ease of maintenance in the field
- Heavy-duty aluminium construction
- All components are user-replaceable in the unlikely event of damage
- 200mm bolt pattern for immediate installation on existing structures
- User-replaceable battery

The SL-C310 is a robust, completely self-contained 3-5NM+ Solar LED Lantern specifically designed to withstand the tough marine environment, providing years of reliable, low-maintenance service. The 3 & 4 hole bolt pattern base fits directly onto existing 200mm bolt pattern industry standard mounts for ease of installation.

The base and top of the SL-C310 are made from cast aluminium, subject to 7-stage powder-coating in high visibility IALA colours for daytime recognition, with UV-stabilised rubber corners and gaskets providing a superior IP68 waterproof rating – the best in the industry.

Four (4) premium-grade solar modules are integrated into the assembly, and mounted to collect sunlight at all angles.

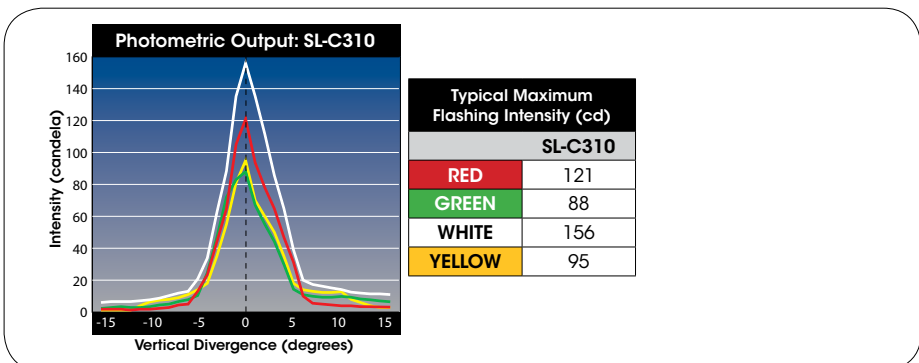
The tough, polycarbonate lens is specifically designed for use with LEDs and incorporates an environment-friendly spike – deterring unwelcome bird life. The lens design also ensures that vessel operators clearly see the light from above when passing the AtoN.

The SL-C310 comes with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality. Programmable features include; flash code adjustment, battery diagnostics, lux adjustment and hibernation mode.

GPS Synchronisation as Standard

Sealite has utilised the latest advancements in GPS technology to develop an internal synchronisation system that is incorporated into the SL-C310 lantern. Using overhead satellites, lights set to the same flash pattern will flash in unison.

When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

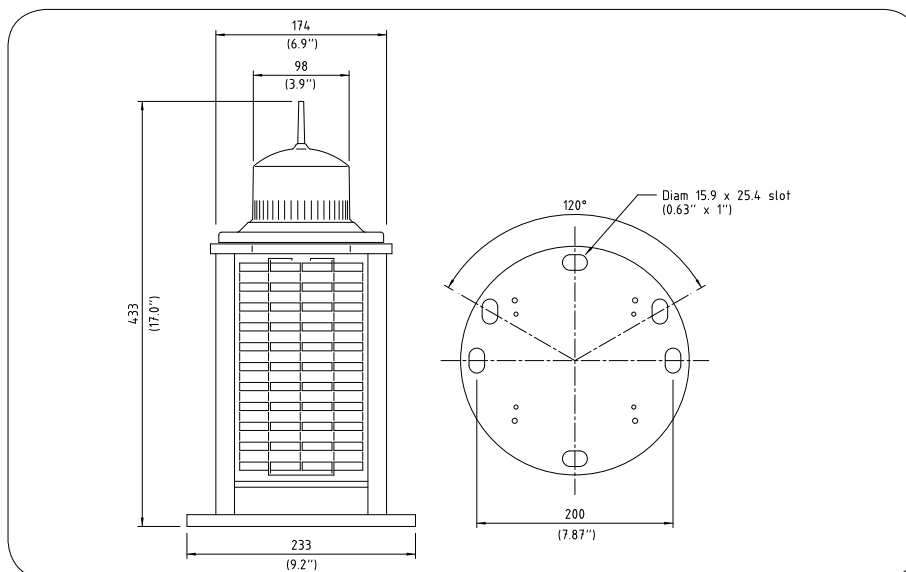




Optional ON/OFF Switch



Optional External Battery Charging Port



SPECIFICATIONS* SL-C310

Light Characteristics

Light Source
Available Colours
Typical Maximum Flashing Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Autonomy (nights)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)
Charging Regulation

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design

Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE
IALA
Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty*

Options Available

LED
Red, Green, White, Yellow, Blue
Red - 121 Green - 88 White - 156 Yellow - 95
AT @ 0.74: 3-5+
AT @ 0.85: 3.5-6.3+
360
>7
Up to 310 IALA recommended (user adjustable)
Multiple intensity settings
>100,000

Refer to Sealite Power Calculator
Integrated
12
>60 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
12 (4 x 3watt)
Microprocessor controlled

Gel SLA
12
12

7-stage powder-coated aluminium chassis with UV-stabilised rubber corners & gaskets
LEXAN® Polycarbonate - UV-stabilised
98 / 3⁷/₈
Single LED Optic
3 & 4 hole 200mm bolt pattern
433 / 17
233 / 9¹/₅
9.4 / 20³/₄
Up to 12 years ^

EN61000-6-1:2007, IEC61000-6-1:2005, EN61000-6-3:2007, IEC61000-6-3:2006
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years
• 50mm pole mount adapter plate
• IR Programmer
• External ON/OFF Switch
• External Battery Charging Port
• GPS Synchronisation: enable/disable
• 5° Lens

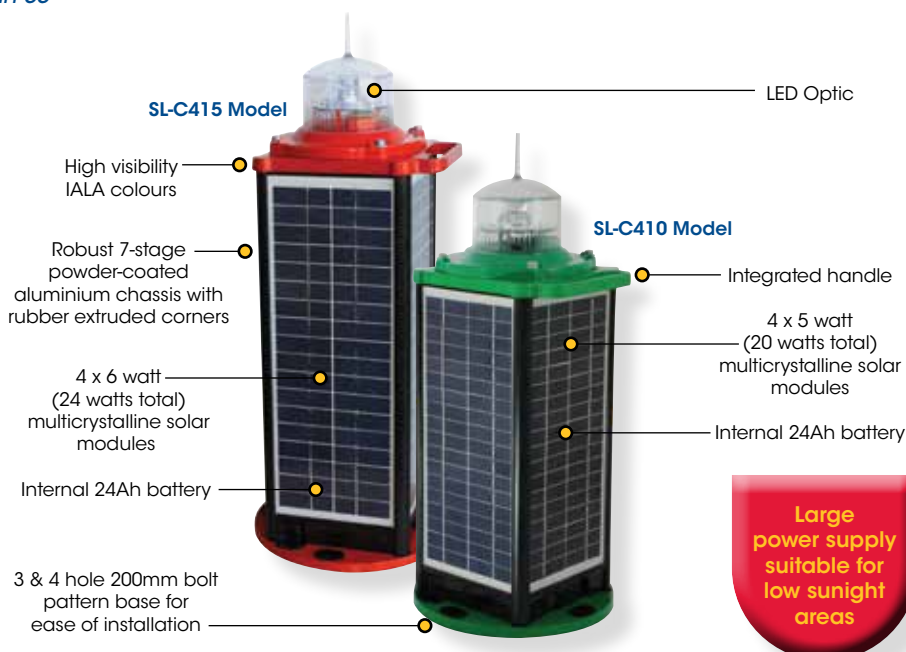
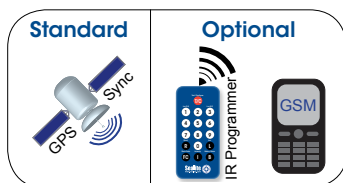


* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
^ Refer to the Sealite website under the warranty section

3-5NM+ Solar Marine Lantern

SL-C410 / SL-C415

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66



Large power supply suitable for low sunlight areas

The Sealite Advantage

- IR programmable
- Fitted with on-board GPS as standard for synchronised flashing
- Simplicity of design ensures ease of maintenance in the field
- Heavy-duty aluminium construction
- All components user-replaceable in the unlikely event of damage
- 200mm bolt pattern for immediate installation on existing structures
- User-replaceable battery

The SL-C410 and SL-C415 are robust, completely self-contained 3-5NM+ Solar LED Lanterns specifically designed to withstand the tough marine environment, providing years of reliable, low-maintenance service. The 3 & 4 hole bolt pattern base fits directly onto existing 200mm bolt pattern industry standard mounts for ease of installation.

The four (4) premium-grade solar modules are integrated into the assembly, and mounted to collect sunlight at all angles. The SL-C410 has a large power supply consisting of four 5 watt panels (20 watt total) and the SL-C415 has four 6 watt panels (24 watt total) making these model perfect for use in lower sunlight areas or where more demanding duty cycles are required.

The base and top of the lanterns are made from cast aluminium, subject to 7-stage powder-coating in high visibility IALA colours for daytime recognition, with UV-stabilised rubber corners and gaskets providing a superior IP68 waterproof rating – the best in the industry. A handle is incorporated into the chassis for safe lifting.

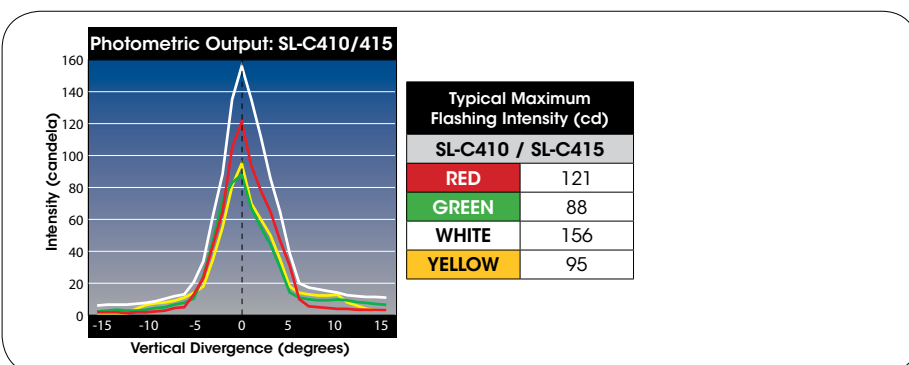
The tough, polycarbonate lens is specifically designed for use with LEDs and incorporates an environment-friendly spike – deterring unwelcome bird life. The lens design also ensures that vessel operators clearly see the light from above when passing the AtoN.

The SL-C410 and SL-C415 come with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality. Programmable features include; flash code adjustment, battery diagnostics, lux adjustment and hibernation mode.

GPS Synchronisation as Standard

Sealite has utilised the latest advancements in GPS technology to develop an internal synchronisation system that is incorporated into the SL-C410 and SL-C415 lanterns. Using overhead satellites, lights set to the same flash pattern will flash in unison.

When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.



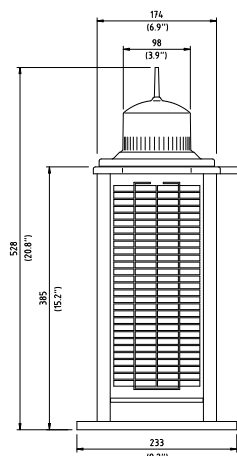
Optional GSM Monitoring & Control System

The SL-C410 and SL-C415 may also be fitted with GSM Cell-Phone Monitoring and Control - enabling users to access real-time diagnostics data and change lantern settings via a cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

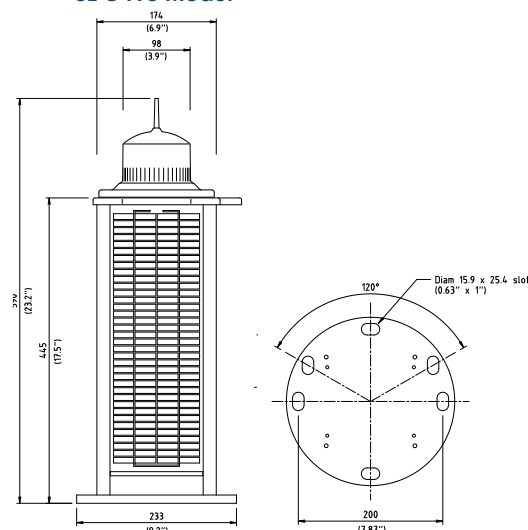


SL-C410 model shown with optional GSM Module

SL-C410 Model



SL-C415 Model



SPECIFICATIONS* *

SL-C410

SL-C415

Light Characteristics

Light Source
Available Colours
Typical Maximum Flashing Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Autonomy (nights)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)
Charging Regulation

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

Physical Characteristics

Body Material

Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE

IALA
Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

LED
Red, Green, White, Yellow, Blue
Red - 121 Green - 88 White - 156 Yellow - 95
AT @ 0.74: 3-5+
AT @ 0.85: 3.5-6.3+
360
>7
Up to 310 IALA recommended (user adjustable)
Multiple intensity settings
>100,000

Refer to Sealite Power Calculator
Integrated
12
>110 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
20 (4 x 5 watt)
Microprocessor controlled

Gel SLA
24
12

7-stage powder-coated aluminium chassis with UV-stabilised rubber corners & gaskets
LEXAN® Polycarbonate - UV-stabilised
98 / 3 7/8
Single LED Optic
3 & 4 hole 200mm bolt pattern
528 / 20 3/4
233 / 9 1/5
13.9 / 30 1/2
Up to 12 years ^

EN61000-6-1:2007, IEC61000-6-1:2005, EN61000-6-3:2007, IEC61000-6-3:2006
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68
Signal colours compliant to IALA E-200-1
SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- 50mm pole mount adapter plate
- IR Programmer
- GSM Monitoring & Control System*
- External ON/OFF Switch
- External Battery Charging Port
- GPS Synchronisation: enable/disable
- 5° Lens

LED
Red, Green, White, Yellow, Blue
Red - 121 Green - 88 White - 156 Yellow - 95
AT @ 0.74: 3-5+
AT @ 0.85: 3.5-6.3+
360
>7
Up to 310 IALA recommended (user adjustable)
Multiple intensity settings
>100,000

Refer to Sealite Power Calculator
Integrated
12
>110 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
24 (4 x 6 watt)
Microprocessor controlled

Gel SLA
24
12

7-stage powder-coated aluminium chassis with UV-stabilised rubber corners & gaskets
LEXAN® Polycarbonate - UV-stabilised
98 / 3 7/8
Single LED Optic
3 & 4 hole 200mm bolt pattern
590 / 23 1/4
233 / 9 1/5
14.6 / 32 1/4
Up to 12 years ^

EN61000-6-1:2007, IEC61000-6-1:2005, EN61000-6-3:2007, IEC61000-6-3:2006
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68
Signal colours compliant to IALA E-200-1
SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

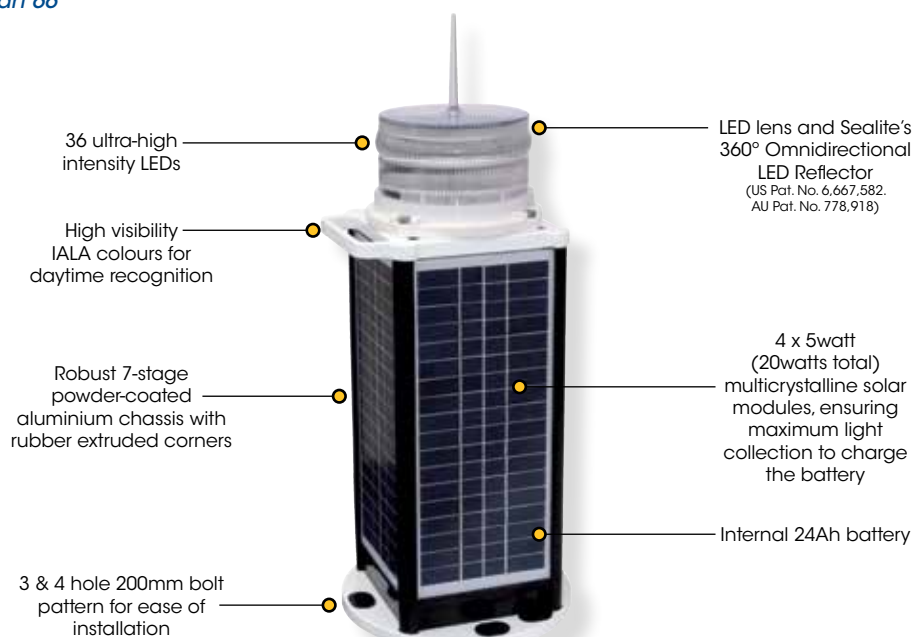
- 50mm pole mount adapter plate
- IR Programmer
- GSM Monitoring & Control System*
- External ON/OFF Switch
- External Battery Charging Port
- GPS Synchronisation: enable/disable
- 5° Lens

^ Refer to the Sealite website under the warranty section

4-5NM+ Solar Marine Lantern

SL-C420

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66



The Sealite Advantage

- Simplicity of design ensures ease of maintenance in the field
- Heavy-duty aluminium construction
- All components are user-replaceable in the unlikely event of damage
- 200mm bolt pattern for immediate installation on existing structures
- User-replaceable battery
- Vertical light emissions to maintain visibility when passing adjacent to light

The SL-C420 is a robust, completely self-contained 4-5NM+ Solar LED Marine Lantern which incorporates a 36 LED light source for even greater light intensity. The 3 & 4 hole bolt pattern base fits directly onto existing 200mm bolt pattern industry standard mounts for ease of installation.

The chassis of the SL-C420 is made from cast aluminium, subject to 7-stage powder-coating in high visibility IALA colours for daytime recognition, with UV-stabilised rubber corners and gaskets providing a superior IP68 waterproof rating – the best in the industry.

Four (4) premium-grade solar modules are integrated into the assembly and mounted to collect sunlight at all angles.

The unit is capable of producing any of 256 IALA recommended flash characters – field-adjustable without the need for ancillary equipment.

The tough polycarbonate lens is specifically designed for use with LEDs and incorporates an environment-friendly bird spike – deterring unwelcome bird life. The lens design also ensures that vessel operators clearly see the light from above, when passing the AtoN.

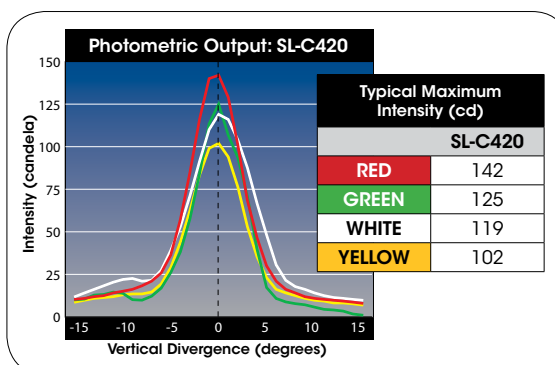
GPS Synchronisation

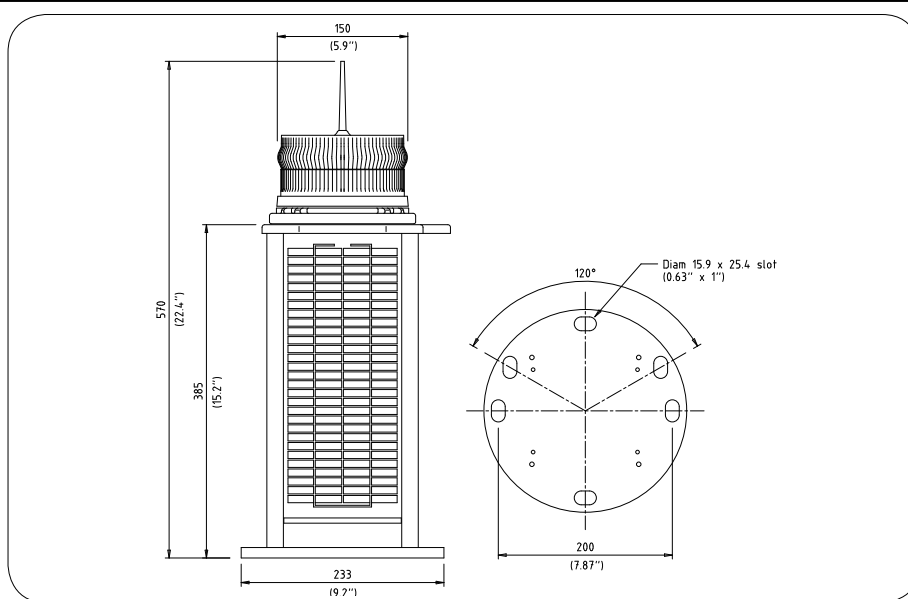
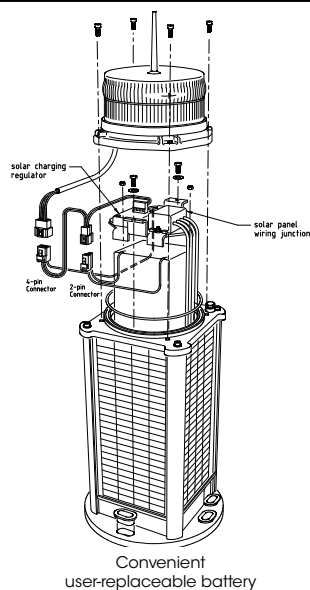
For flash synchronisation of lanterns installed over longer ranges, a GPS module may be fitted.

When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

Optional GSM Monitoring & Control System

The SL-C420 may also be fitted with GSM Cell-Phone Monitoring and Control – enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.





Cork, Ireland



Queensland, Australia



SL-C420's mounted on SL-B1250 Navigation Buoys, Pasig River, Manila, Philippines

SPECIFICATIONS * *

SL-C420

Light Characteristics

Light Source
Available Colours
Typical Maximum Intensity (cd) †
Visible Range (NM)
Horizontal Output (degrees)
Vertical Divergence (degrees)
Reflector Type

Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Autonomy (days)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)
Charging Regulation

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

Physical Characteristics

Body Material

Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE
IALA
Quality Assurance
Waterproof

Intellectual Property

Patents
Trademarks

Warranty *

Options Available

36 Ultra-high intensity LEDs
Red, Green, White, Yellow, Blue
Red - 142 Green - 125 White - 119 Yellow - 102
AT @ 0.74: 4-5+
AT @ 0.85: 4.8-6.3+
360
9
Omnidirectional 360° LED Reflector
(US Pat. No. 6,667,582. AU Pat. No. 778,918)
Up to 310 IALA recommended (user adjustable)
Adjustable in 25% increments
>100,000

Refer to Sealite Power Calculator
Integrated
12
>15 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
20 (4 x 5watt)
Microprocessor controlled

Gel SLA
24
12

7-stage powder-coated aluminium chassis with UV-stabilised rubber corners and gaskets
LEXAN® Polycarbonate - UV-stabilised
150 / 5 7/8
External optics with interior flute design
3 & 4 hole 200mm bolt pattern
570 / 22 2/5
233 / 9 1/5
13.9 / 30 5/8
Up to 12 years ^

EN61000-6-3:1997. EN61000-6-1:1997
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68

US Pat. No. 6,667,582. AU Pat. No. 778,918
SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

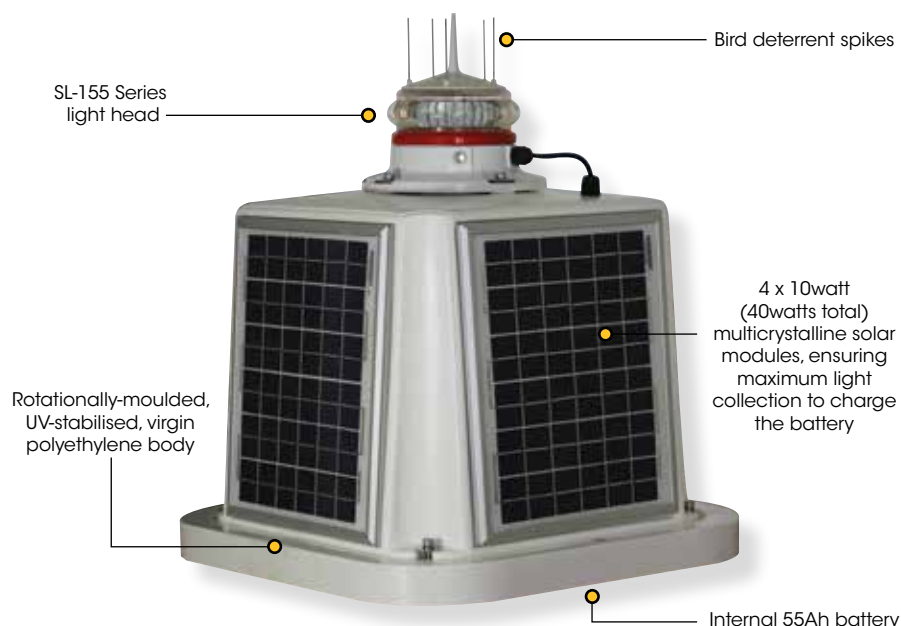
- GPS Synchronisation
- GSM Monitoring & Control System
- 50mm pole mount adapter plate



* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
^ Refer to the Sealite website under the warranty section

5-12NM Solar Marine Lantern

SL-C500



The Sealite Advantage

- Up to 12NM visible range
- Multiple lens divergences for fixed or floating applications
- Complete unit — ready for immediate installation
- Impact & weather resistant polyethylene
- PC or IR Programmer for setup, diagnostic & testing

The SL-C500 is a completely self-contained 5-12NM Solar LED Marine Lantern designed for a range of low-maintenance applications.

The light boasts a large internal battery compartment, a SL-155 Series LED light-head and 4 premium-grade 10 watt solar modules mounted to collect sunlight at all angles.

The SL-C500 is moulded from UV-stabilised, virgin polyethylene, providing enormous impact and weather resistance, in addition to high visibility IALA colours.

The user-friendly, 2-piece design allows the lantern to be opened for convenient battery inspection or replacement whilst the base remains fixed to the supporting structure.

Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including;

- Multiple intensity settings
- 310 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

Optional GPS Synchronisation

The SL-C500 may be fitted with an optional GPS module for flash synchronisation.

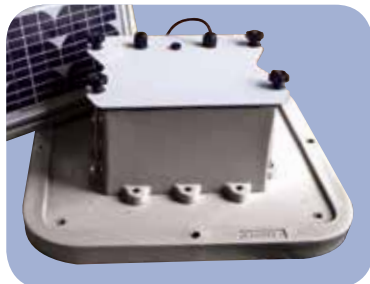
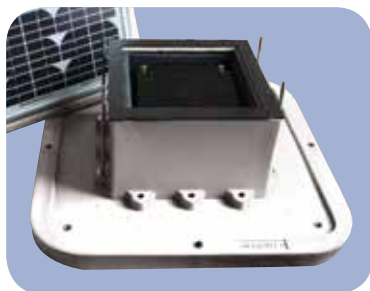
Optional GSM Monitoring & Control System

The SL-C500 lanterns may also be fitted with a GSM Cell-Phone Monitoring and Control System – enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

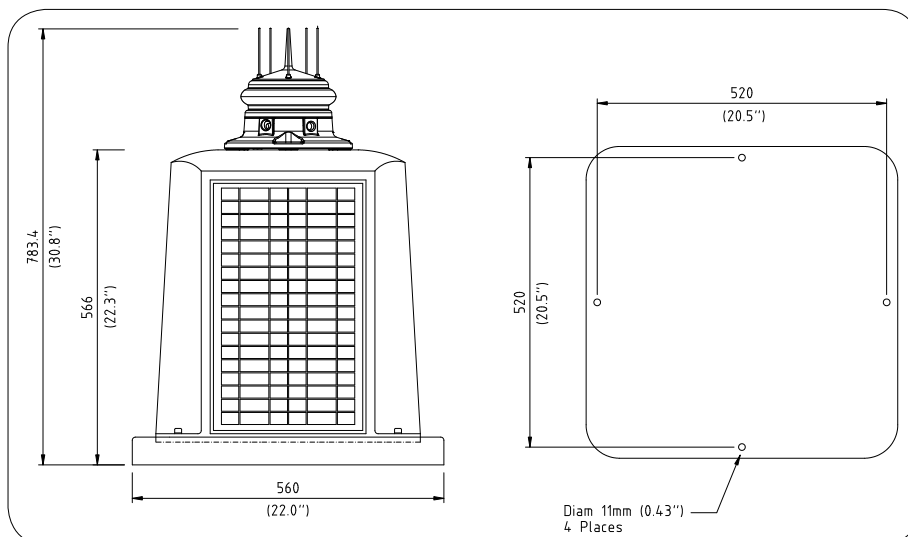
Optional Type 1 or Type 3 AIS

The SL-C500 lanterns are available with a class-leading integrated, low-powered Type 1 or Type 3 AIS. When fitted, the AIS is encapsulated within the body of the SL-155 to maintain the weatherproof integrity.

Note: With integrated AIS, the lanterns visible range may be reduced. Please check the Sealite Solar Calculator for performance characteristics.



Convenient battery replacement



SPECIFICATIONS * *

SL-C500

Light Characteristics

Light Source
Available Colours
Typical Maximum Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Power (W)
Circuit Protection
Nominal Voltage (VDC)
Autonomy (days)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)
Charging Regulation

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE
IALA
Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

SL-155-2.5D/5D/10D lantern
Red, Green, White, Yellow
Refer to Typical Maximum Intensity Table for SL-155 Series Lanterns

AT @ 0.74: 5-12
AT @ 0.85: 6.3-17.4
0° - 360°
2.5°, 5° or 10°
Up to 310 including 256 IALA recommended, & 1 custom
User adjustable
>100,000

Refer to Sealite Power Calculator
Refer to Sealite Power Calculator
Polarity protected
12
>20 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
40 (4 x 10watt)
Microprocessor controlled

Gel SLA
55
12

Rotationally-moulded UV-stabilised virgin polyethylene
UV-stabilised acrylic
From 171 / 6¾
Multiple LED optic
4 x 11mm mounting holes
From 675 / 26½
560 / 22
From 23 / 50.7
Up to 12 years ^

EN61000-6-3:1997. EN61000-6-1:1997
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68 light-head

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

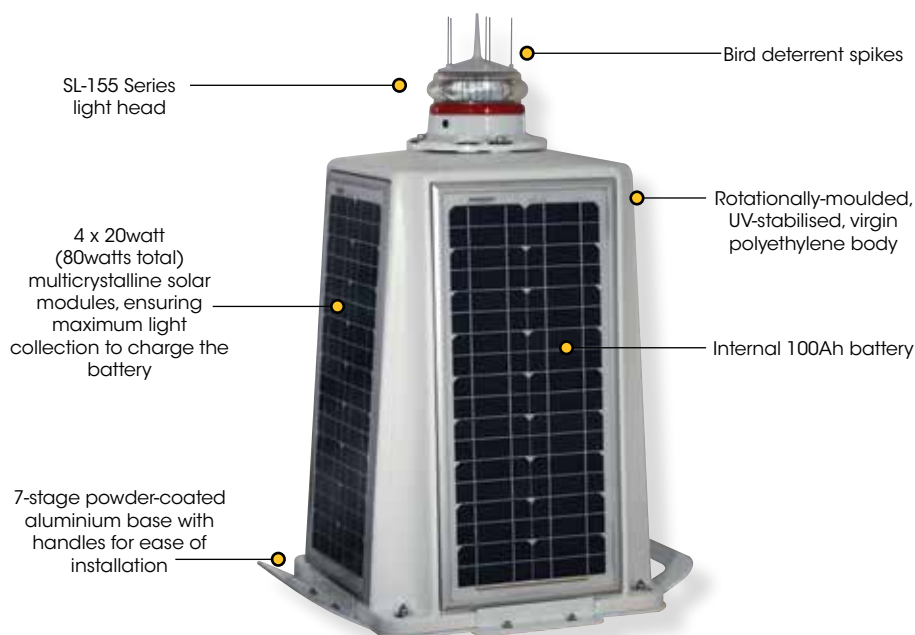
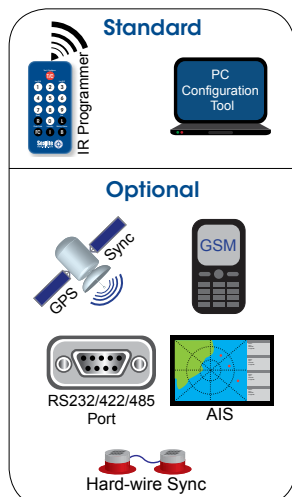
- SL-125 Series Lantern
- 200mm bolt pattern mounting plate
- GPS Synchronisation
- AIS Remote Monitoring
- GSM Monitoring & Control System
- RS232/422/485 Port
- General purpose inputs (1) & outputs (1)



* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
^ Refer to the Sealite website under the warranty section

6–12NM Solar Marine Lantern

SL-C600



The Sealite Advantage

- Up to 12NM visible range
- Multiple lens divergences for fixed or floating applications
- Complete unit — ready for immediate installation
- Impact & weather resistant polyethylene
- Handles on the base for ease of installation
- PC or IR Programmer for setup, diagnostic & testing

The SL-C600, one of the world's largest self-contained LED lanterns, is a 6–12NM Solar LED Marine Lantern designed for a range of low-maintenance applications.

The light boasts a large internal battery compartment, a SL-155 light-head and 4 premium-grade 20 watt solar modules mounted to collect sunlight at all angles.

The SL-C600 is moulded from UV-stabilised, virgin polyethylene, providing enormous impact and weather resistance, in addition to high visibility IALA colours.

The user-friendly, 2-piece design allows the lantern to be opened for convenient battery inspection or replacement whilst the base remains fixed to the supporting structure.

Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including:

- Multiple intensity settings
- 310 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

Optional GPS Synchronisation

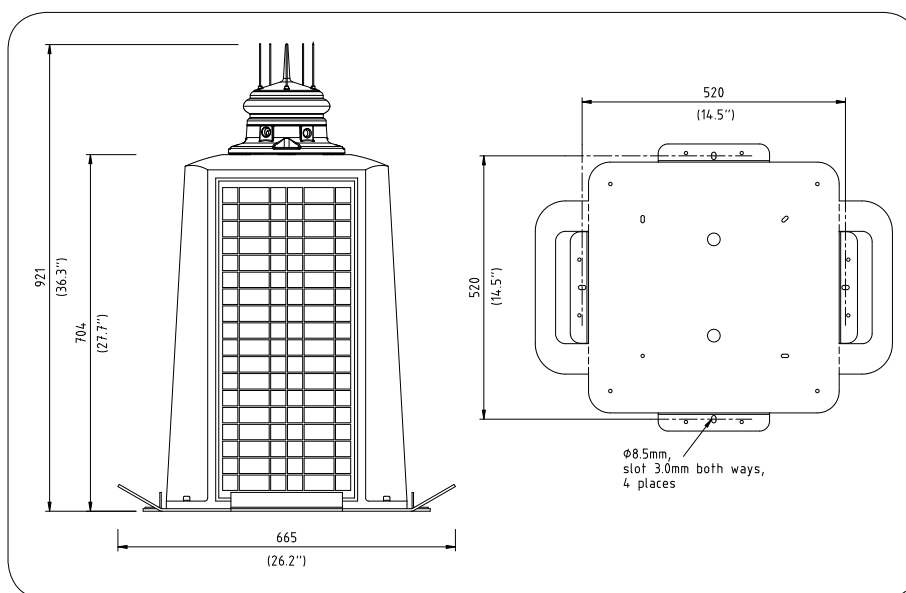
The SL-C600 may be fitted with an optional GPS module for flash synchronisation.

Optional GSM Monitoring & Control System

The SL-C600 lanterns may also be fitted with a GSM Cell-Phone Monitoring and Control System – enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

Optional Type 1 or Type 3 AIS

The SL-C600 lanterns are available with a class-leading integrated, low-powered Type 1 or Type 3 AIS. When fitted, the AIS is encapsulated within the body of the SL-155 to maintain the weatherproof integrity.



Convenient battery replacement



SPECIFICATIONS* *

SL-C600

Light Characteristics

Light Source

Available Colours

Typical Maximum Intensity (cd)†

Visible Range (NM)

Horizontal Output (degrees)

Vertical Divergence (degrees)

Available Flash Characteristics

Intensity Adjustments

LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)

Power (W)

Circuit Protection

Nominal Voltage (VDC)

Autonomy (days)

Temperature Range

Solar Characteristics

Solar Module Type

Output (watts)

Charging Regulation

Power Supply

Battery Type

Battery Capacity (Ah)

Nominal Voltage (V)

Physical Characteristics

Body Material

Lens Material

Lens Diameter (mm/inches)

Lens Design

Mounting

Height (mm/inches)

Width (mm/inches)

Mass (kg/lbs)

Product Life Expectancy

Certifications

CE

IALA

Quality Assurance

Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

SL-155-2.5D/5D/10D lantern

Red, Green, White, Yellow

Refer to Typical Maximum Intensity Table for SL-155 Series Lanterns

AT @ 0.74: 6-12

AT @ 0.85: 7.8-17.4

0° - 360°

2.5°, 5° or 10°

Up to 310 including 256 IALA recommended, & 1 custom

User adjustable

>100,000

Refer to Sealite Power Calculator

Refer to Sealite Power Calculator

Polarity protected

12

>20 (14 hour darkness, 12.5% duty cycle)

-40 to 80°C

Multicrystalline

80 (4 x 20watt)

Microprocessor controlled

Gel SLA

110

12

Rotationally-moulded UV-stabilised virgin polyethylene

UV-stabilised acrylic

From 171 / 6¾

Multiple LED optic

4 x 11mm mounting holes

From 813 / 32

665 / 26¼

From 50 / 110

Up to 12 years ^

EN61000-6-3:1997. EN61000-6-1:1997

Signal colours compliant to IALA E-200-1

ISO 9001:2015

IP68 light-head

SEALITE® is a registered trademark of Sealite Pty Ltd

3 years

• SL-125 Series Lantern

• 200mm bolt pattern mounting plate

• GPS Synchronisation

• AIS Remote Monitoring

• GSM Monitoring & Control System

• RS232/422/485 Port

• General purpose inputs (1) & outputs (1)

• Lantern spacer for elevated height



* Specifications subject to change or variation without notice

* Subject to standard terms and conditions

† Intensity setting subject to solar availability

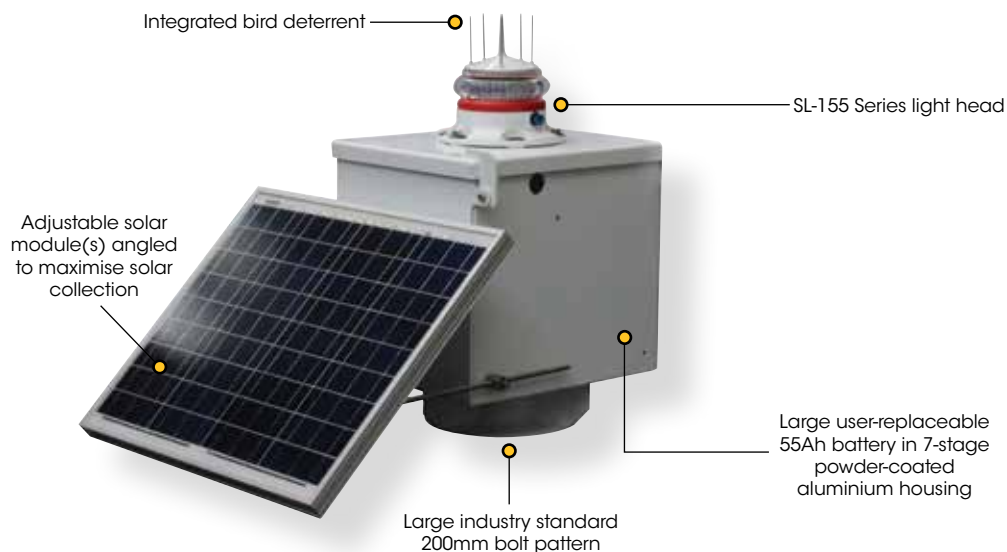
^ Refer to the Sealite website under the warranty section



6-13NM+ Complete Marine Lantern Assembly

SL-155-C Type 2 Complete

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66



The Sealite Advantage

- Complete lantern assembly with large battery housing for low sunlight regions or high duty cycles
- 310 user-adjustable flash characteristics
- Multiple intensity settings
- Impact resistant battery housing
- Vertical light emissions to maintain visibility when passing adjacent to light

The SL-155-C Type 2 Complete Lantern Assembly incorporates a larger battery housing to the standard SL-155-C Type 1 assembly, enabling greater autonomy particularly in lower sunlight regions.

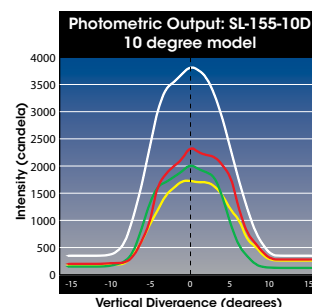
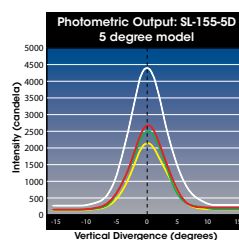
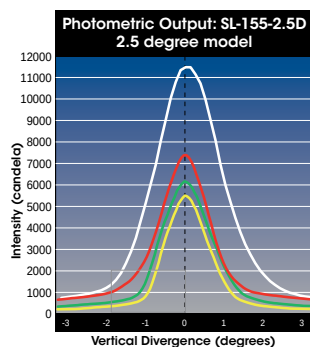
The SL-155-C Type 2 offers unique flexibility, and is available in varying configurations to suit a range of installation and intensity requirements. The powder-coated 3mm aluminium housing is laser-cut, and robotically folded for guaranteed precision every time.

One or two 40watt solar module(s) are fitted to power longer-range requirements or ancillary equipment, with large 55Ah battery.

A modular design, all components of the system are replaceable in the unlikely event of damage to the unit. The battery is accessed through the top of the lantern assembly, via a robust swing-hinge.

Access to the user-adjustable flash and intensity settings is also achieved through this design.

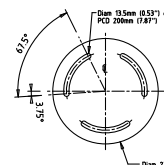
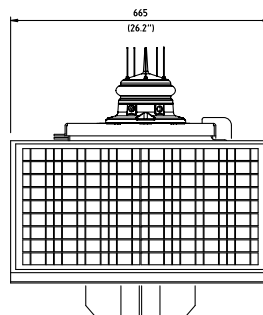
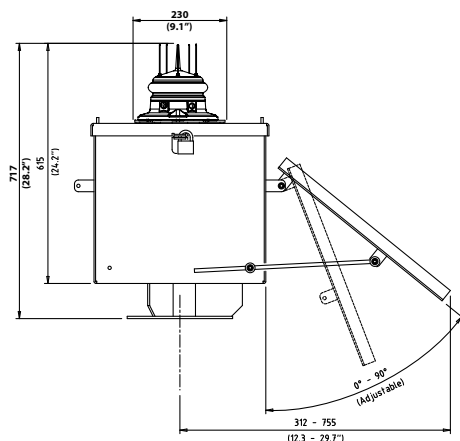
The solar modules are extendable to 51 degrees as standard, with the option to increase in equatorial regions.



Optical Performance

Maximum luminous intensity (cd)

	RED	GREEN	WHITE	YELLOW
2.5deg	7,357	6,052	11,505	5,414
5deg	2,765	2,796	4,611	2,778
10deg	2,581	2,213	3,910	2,041



SL-125-C lanterns installed at marina,
Venice, Italy



Port of Geelong, Australia

SPECIFICATIONS * *

SL-155-C Type 2

Light Characteristics

Light Source
Available Colours
Typical Maximum Intensity (cd) †
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Reflector Type

Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Autonomy (days)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)

Charging Regulation

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE

IALA
Quality Assurance
Waterproof

Intellectual Property

Patents
Trademarks

Warranty *

Options Available

SL-155 2.5D, SL-155 5D, SL-155 10D
Red, Green, White, Yellow, Blue
Refer to Typical Maximum Intensity Table for SL-155 Series range

AT @ 0.74: 6-13
AT @ 0.85: 7.8-19.2

360
2.5, 5, 10
Omnidirectional 360° LED Reflector
(US Pat. No. 6,667,582; AU Pat. No. 778,918)
Up to 310 IALA recommended (user adjustable)
Adjustable in 25% increments
>100,000

Refer to Sealite Power Calculator
Reverse polarity
12
>20 (14 hour darkness, 12.5% duty cycle)
-40 to 80°C

Multicrystalline
40 (SL-155-1-CT2-1, SL-155-2-CT2-1, SL-155-3-CT2-1 and SL-155-4-CT2-1)
65 (SL-155-1-CT2-2, SL-155-2-CT2-2, SL-155-3-CT2-2 and SL-155-4-CT2-2)
Microprocessor controlled

Gel SLA
110
12

7-stage powder-coated aluminium
LEXAN® Polycarbonate - UV-stabilised
150 / 5 7/8
External optics with interior flute design
200mm bolt pattern
From 570 / 22 1/2
665 / 26 1/4
From 45 / 99 1/4
Up to 12 years ^

EN61000-6-3:2001, EN61000-6-1:2001, EN55022, EN61000-4-2:1995,
EN61000-4-3:2002
USCG specification HSCG23-05-R-E43013, including Change 1.
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68 light head. IP66 battery compartment

US Pat. No. 6,667,582; AU Pat. No. 778,918
SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- SL-125 Series Lantern
- Single or dual solar module(s)
- 110Ah battery
- 65watt solar module (single or dual configuration)
- GPS Synchronisation
- Hard-wire Synchronisation
- AIS Remote Monitoring
- GSM Monitoring & Control System
- Extended base post
- 10 degree lens (SL-125-1)



* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
^ Refer to the Sealite website under the warranty section





Stand Alone Marine Lanterns



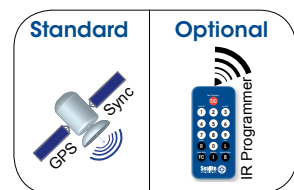
The Sealite range of Stand Alone LED Marine Lanterns offer superior visibility and operate in conjunction with existing or purpose-built power supplies.

With visible ranges of 1NM (1.8km) to 21NM+ (35km) the units are ideal for a range of applications. End-users include major military establishments, Coast Guards, Port and Harbour and Inland Waterway Authorities, and other government bodies worldwide.

Each product incorporates the latest in LED, solar, battery, electronics and moulding technology, and is designed to meet IALA recommendations for aids to navigation.

1-5NM Stand Alone Marine Lanterns

SL-07 Series — SL-07LB & SL-07



Shown with optional solar power supplies



The Sealite Advantage

- IR programmable
- Fitted with on-board GPS as standard for synchronised flashing
- 1-5 nautical mile range
- 310 user-adjustable flash characteristics
- Multiple intensity settings
- Operates in conjunction with existing or purpose-built power supplies
- IP68 waterproof
- Optional solar powered configurations available



SL-07 model available with optional 4 x 6mm mounting holes

The SL-07 series are LED marine lanterns designed to offer superior visibility and operate in conjunction with existing or purpose-built power supplies.

With a variable range of 1 to 5NM, a maintenance-free light source and 310 user adjustable flash codes, the SL-07 series of LED lanterns is an ideal choice for operators seeking to fit a short-range marine lantern to existing or independently designed power sources.

The lanterns feature the Sealite Single LED Optic which boasts exceptional power to light output efficiency. The tough outer polycarbonate lens incorporates an environment-friendly spike – deterring unwelcome bird life. The lens design also ensures that vessel operators clearly see the light from above, when passing the AtoN.

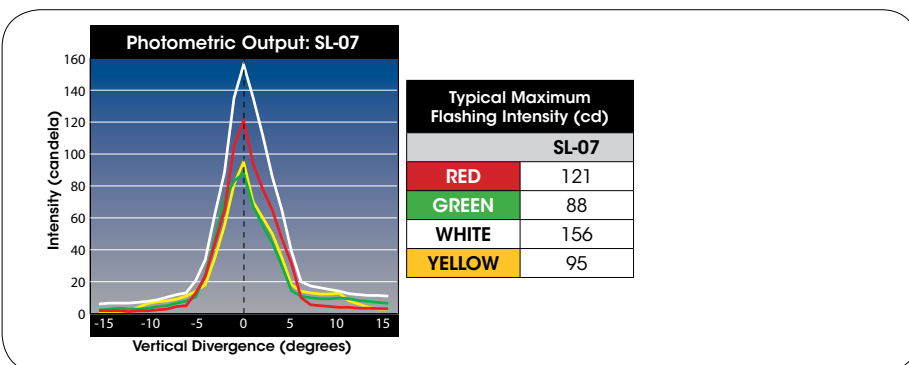
The SL-07 series comes with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality. Programmable features include; flash code adjustment, battery diagnostics, lux adjustment and hibernation mode.

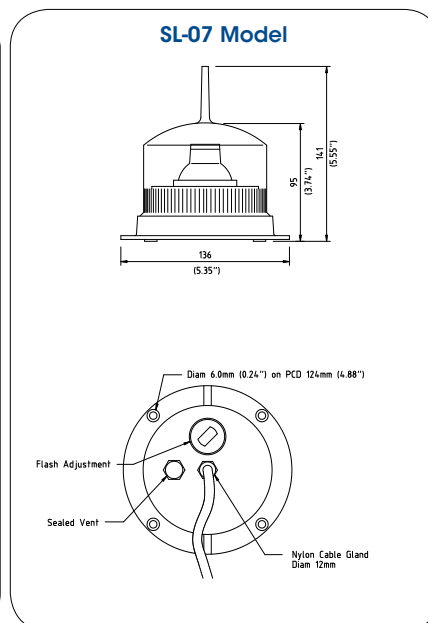
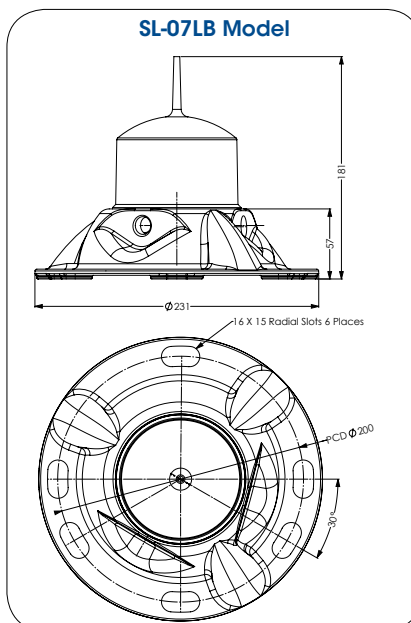
For ease of installation, the SL-07 series lanterns are available with either 4 x 6mm mounting holes (SL-07) or 3 & 4 hole 200mm bolt pattern base (SL-07LB).

GPS Synchronisation as Standard

Sealite has utilised the latest advancements in GPS technology to develop an internal synchronisation system that is incorporated into the SL-07 series lanterns. Using overhead satellites, lights set to the same flash pattern will flash in unison.

When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting.





SPECIFICATIONS* *

SL-07LB

SL-07

Light Characteristics

Light Source
Available Colours
Typical Maximum Flashing Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Power Consumption
Circuit Protection
Nominal Voltage (V)
Temperature Range

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE
IALA
Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

LED
Red, Green, White, Yellow, Blue
Red - 121 Green - 88 White - 156 Yellow - 95
AT @ 0.74: 1-5
AT @ 0.85: 1.1-6.3
360
7
Up to 310 IALA recommended (user adjustable)
Adjustable in 25% increments
>100,000

Variable up to 2 watts
Integrated
12
-40 to 80°C

LEXAN® Polycarbonate - UV-stabilised
LEXAN® Polycarbonate - UV-stabilised
98 / 3 7/8
Single LED Optic
3 & 4 hole 200mm bolt pattern
181 / 7 1/8
231 / 9 1/8
1.1 / 2 3/8
Up to 12 years ^

EN61000-6-3:1997. EN61000-6-1:1997
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- Power supplies/systems
- 50mm pole mount adapter plate
- Additional cable
- IR Programmer
- Variety of solar/battery configurations

LED
Red, Green, White, Yellow, Blue
Red - 121 Green - 88 White - 156 Yellow - 95

AT @ 0.74: 1-5
AT @ 0.85: 1.1-6.3
360
7
Up to 310 IALA recommended (user adjustable)
Adjustable in 25% increments
>100,000

Variable up to 2 watts
Integrated
12
-40 to 80°C

LEXAN® Polycarbonate - UV-stabilised
LEXAN® Polycarbonate - UV-stabilised
98 / 3 7/8
Single LED Optic
4 x 6mm mounting holes
141 / 5 1/2
136 / 5 3/8
0.4 / 7/8
Up to 12 years ^

EN61000-6-3:1997. EN61000-6-1:1997
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68

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3 years

- Power supplies/systems
- 50mm pole mount adapter plate
- Additional cable
- IR Programmer
- Variety of solar/battery configurations

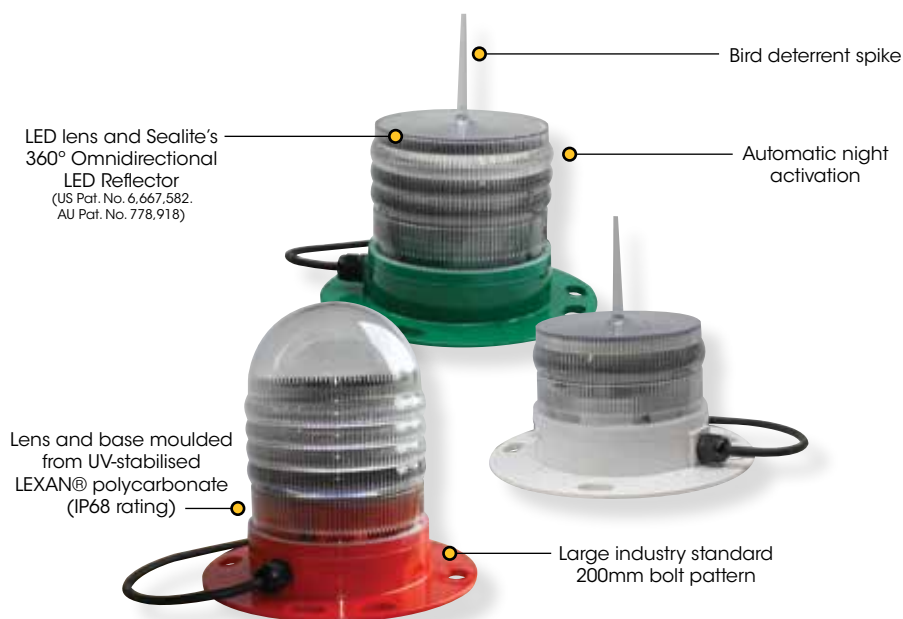
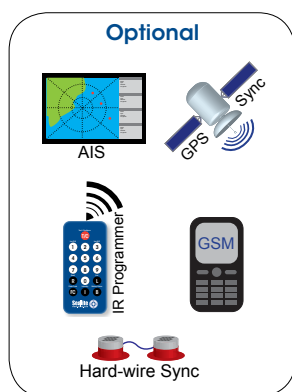
^ Refer to the Sealite website under the warranty section



5-9NM+ Stand Alone Marine Lanterns

SL-125 Series

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66



The Sealite Advantage

- Available with up to 4 tiers of ultra-high intensity LEDs for increased light intensity
- 256 user-adjustable flash characteristics
- Multiple intensity settings
- Operates in conjunction with existing or purpose-built power supplies
- Installs in minutes & operates maintenance-free
- Vertical light emissions to maintain visibility when passing adjacent to light
- IP68 waterproof

The SL-125 LED marine lantern is maintenance-free and used by many of the world's busiest ports. The lantern is available with up to 4 tiers of 36 LEDs (144 LEDs in total), for complete flexibility to suit varying applications.

Lantern Operation

The SL-125 is ideal to fit on existing structures, or can be supplied as a complete unit with external solar modules and battery compartment.

The large industry standard base, and 1 metre of included cable allows the SL-125 to be readily fitted to any 12 volt power supply.

Once installed, the SL-125 requires no operator intervention. The flash characters are easily adjusted onsite by the user, and the lantern will automatically begin operation at dusk – once the ambient light threshold drops sufficiently.

Up to 4 tiers of 36 LEDs are available to increase the light intensity of the SL-125 unit.

The SL-125-2, SL-125-3 and SL-125-4 have 72, 108 and 144 LEDs respectively.

Each LED tier utilises the Sealite Omnidirectional LED Reflector (US Pat. No. 6,667,582; AU Pat. No. 778,918) to increase the intensity and uniformity of the horizontal output.

Multiple focal points on the lens then create superior divergence specifications to suit regulations worldwide.

Optional GPS Synchronisation

For flash synchronisation of lanterns a GPS module may be fitted.

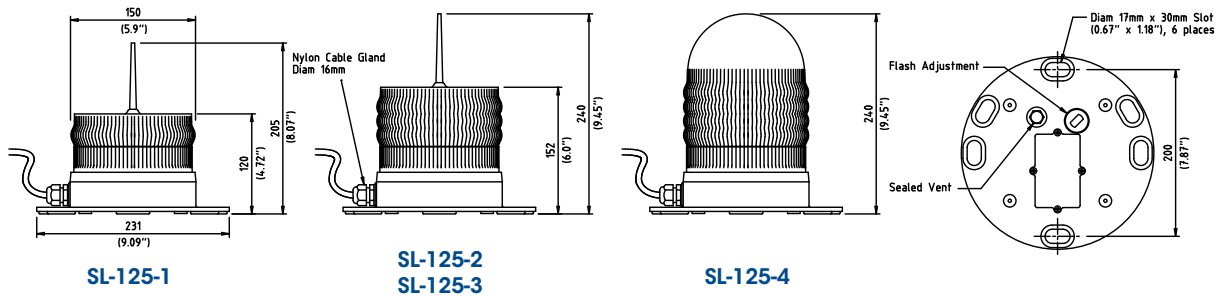
When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting – ideal for rivers and channel marking.

Optional GSM Monitoring & Control

The SL-C125 lantern series may also be fitted with GSM Remote Monitoring and Control capabilities – enabling users to access real-time diagnostics data and change lantern settings via cell-phone.

Optional AIS Remote Monitoring

AIS integration enables remote monitoring of the SL-125 lantern as well as crucial message 21 information to be broadcast to mariners within the region.



SL-125-1

SL-125-2
SL-125-3

SL-125-4

SPECIFICATIONS* *

SL-125 Series

Light Characteristics

Light Source

Available Colours

Typical Maximum Intensity (cd)†

Visible Range (NM)

Horizontal Output (degrees)

Vertical Divergence (degrees)

Reflector Type

Available Flash Characteristics

Intensity Adjustments

LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)

Circuit Protection

Nominal Voltage (V)

Temperature Range

Physical Characteristics

Body Material

Lens Material

Lens Diameter (mm/inches)

Lens Design

Mounting

Height (mm/inches)

Width (mm/inches)

Mass (kg/lbs)

Product Life Expectancy

Certifications

CE

IALA

Quality Assurance

Waterproof

Intellectual Property

Patents

Trademarks

Warranty *

Options Available

SL-125-1: 36 ultra-high intensity LEDs
SL-125-2: 72 ultra-high intensity LEDs
SL-125-3: 108 ultra-high intensity LEDs
SL-125-4: 144 ultra-high intensity LEDs
Red, Green, White, Yellow, Blue
Refer to Typical Maximum Intensity Tables for SL-125 lanterns
AT @ 0.74: 5-9+
AT @ 0.85: 6.3-12.5+
360
9 (SL-125-1, SL-125-2 & SL-125-3)
7 (SL-125-4)
Omnidirectional 360° LED Reflector
(US Pat. No. 6,667,582; AU Pat. No. 778,918)
Up to 256 IALA recommended (user adjustable)
Adjustable in 25% increments
>100,000

Refer to Sealite Power Calculator

Integrated

12

-40 to 80°C

LEXAN® Polycarbonate - UV-stabilised

LEXAN® Polycarbonate - UV-stabilised

150 / 5 7/8

External optics with interior flute design

3 & 4 hole 200mm bolt pattern

SL-125-1: 205 / 8 1/8

SL-125-2: 240 / 9 1/2

SL-125-3: 240 / 9 1/2

SL-125-4: 240 / 9 1/2

231 / 9 1/8

From 1.1 / 2 3/8

Up to 12 years ^

EN61000-6-3:2007, A1:2011, AC:2012

Signal colours compliant to IALA E-200-1

ISO 9001:2015

IP68

US Pat. No. 6,667,582; AU Pat. No. 778,918
SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

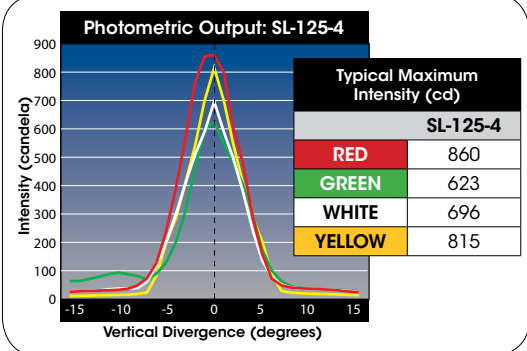
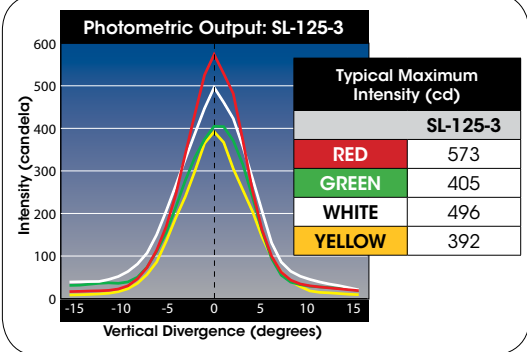
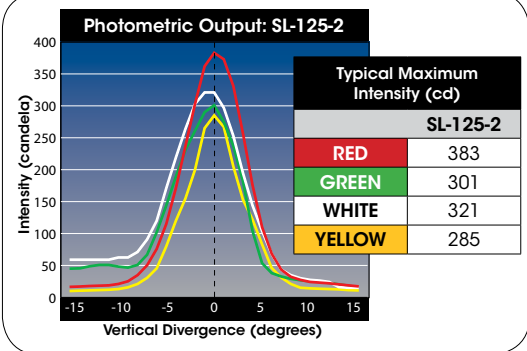
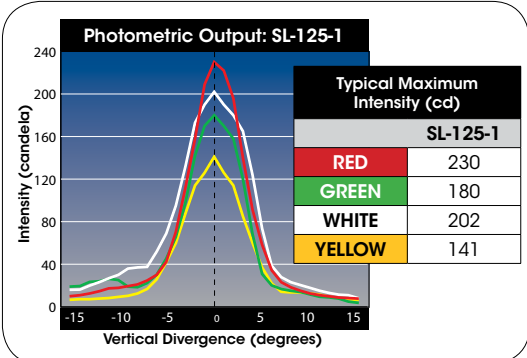
- GPS Synchronisation
- Hard-wire Synchronisation
- AIS Remote Monitoring
- GSM Monitoring & Control System
- Additional cable
- 10 degree lens (SL-125-1)
- IR Remote

* Specifications subject to change or variation without notice

* Subject to standard terms and conditions

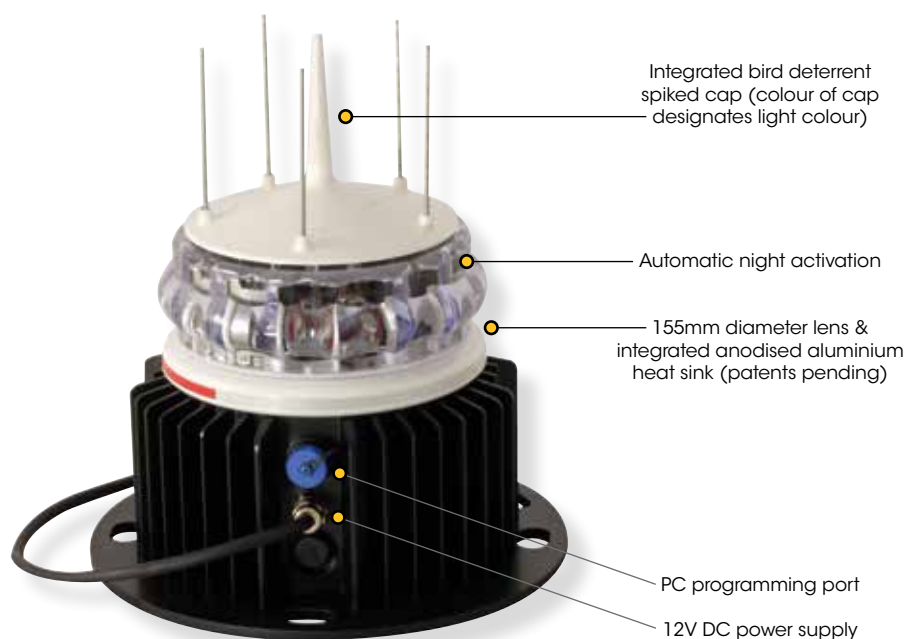
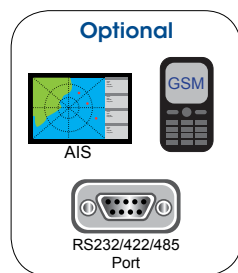
† Intensity setting subject to solar availability

^ Refer to the Sealite website under the warranty section



4-9NM+ Non-Precision Sector Lantern

APOLLO Series — SL-155-NPS



The Sealite Advantage

- Internal light sectoring
- Range adjustable in excess of 9NM
- 155mm diameter lens
- Independent control of individual LEDs
- Multiple intensity settings
- Automatic effective intensity correction
- User programmed custom flash settings
- Advanced thermal management
- IP68 waterproof
- Optional solar powered configurations available

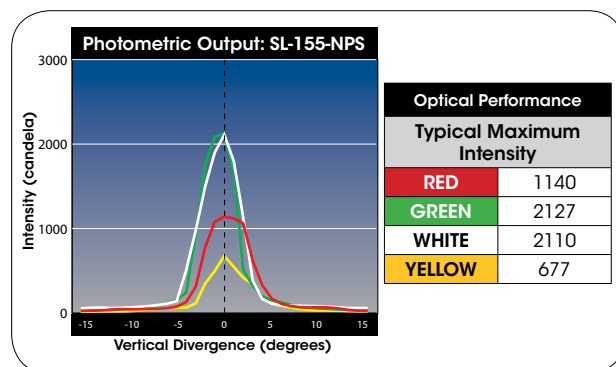
Sealite's APOLLO SL-155-NPS non-precision sector lantern is adjustable from 4-9NM+ and has been designed to suit a range of applications.

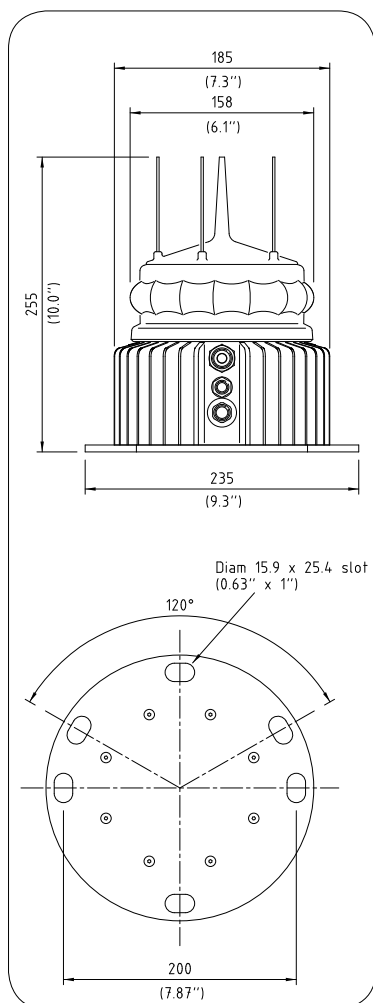
The distinctive lens of the SL-155-NPS has 16 optical elements controlling the light emissions for the LED in a two-dimensional manner; completely unique to the industry.

The optic facilitates internal sectoring across a broad range of output requirements.

Optional AIS Remote Monitoring

The SL-155-NPS can be supplied with AIS integration enabling remote monitoring of the lantern as well as crucial message 21 information to be broadcast to mariners within the region.





SPECIFICATIONS • *

APOLLO Series

SL-155-NPS

Light Characteristics

Light Source
Available Colours
Typical intensity at maximum wattage (cd)††
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Temperature Range

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE
IALA
Quality Assurance
Waterproof

Intellectual Property

Patents
Trademarks
Warranty *

Options Available

16 ultra bright LEDs
Red, Green, White, Yellow, Blue
Red - 1140 Green - 2127 White - 2110 Yellow - 677

AT @ 0.74: 4-9+
AT @ 0.85: 4.8-12.5+
0° - 360°
5
Up to 256 IALA recommended (PC programmed)
32 levels (PC programmed)
>100,000

Refer to Sealite Power Calculator
Polarity protected
12VDC only
-40 to 80°C

Anodised 6060 Series Aluminium
LEXAN® Polycarbonate - UV-stabilised
155 / 6 1/8
Sealite 16 segment, multi-focus LED lens (patents pending)
3 & 4 hole 200mm bolt pattern
255 / 10
235 / 9 1/8
3.8 / 8 3/8
Up to 12 years ^

M091133
Signal colours compliant to IALA E-200-1
ISO 9001:2015
IP68

Australian Provisional Patent 1004289015
SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

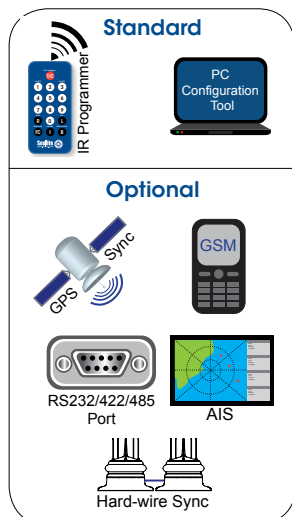
• Variety of solar/battery configurations
• RS232 Port

• Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
‡ Higher outputs at increased current draw
Limited functionality
^ Refer to the Sealite website under the warranty section



6-13NM Marine Lanterns

SL-155 Series — SL-155-2.5D, SL-155-5D & SL-155-10D



The Sealite Advantage

- Over 9,000cd luminous intensity white
- Compact single tier lantern up to 13NM visible range
- PC or IR Programmer for setup, diagnostic & testing
- Internal or external photocell options
- User configurable day/night lux levels
- Advanced remote monitoring features
- Wide operating voltage range 10 – 30VDC
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- Hardwire synchronisation supporting RS485, RS422
- General purpose input & output

The SL-155 Series are 6-13NM medium range marine lanterns, available in 2.5, 5, or 10 degree vertical distributions.

Small Form Factor

The single tier SL-155 with multiple intensity adjustments, high levels of efficiency, and minimal wind loading, offers significant advantages over other lens stack assemblies.

Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including:

- Multiple intensity settings
- 310 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

Optional GPS Synchronisation

For flash synchronisation of lanterns a GPS module may be fitted.

When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting – ideal for rivers and channel marking.

Optional GSM Monitoring & Control

The SL-155 lanterns may also be fitted with a GSM Cell-Phone Monitoring and Control System – enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

Optional Type 1 or Type 3 AIS - Integrated or External

The SL-155 lanterns (5 & 10 degree models) are available with a class-leading integrated, low-powered Type 1 or Type 3 AIS.

When fitted, the AIS is encapsulated within the body of the SL-155 to maintain the weatherproof integrity and come standard with GPS.

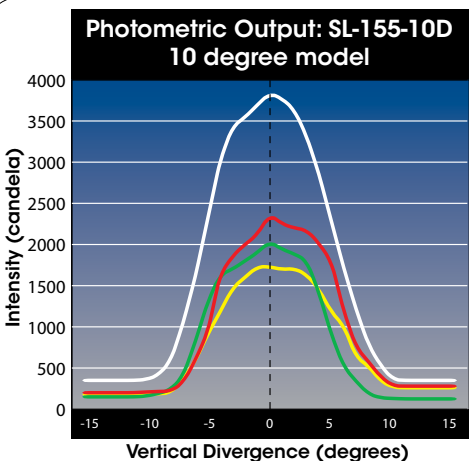
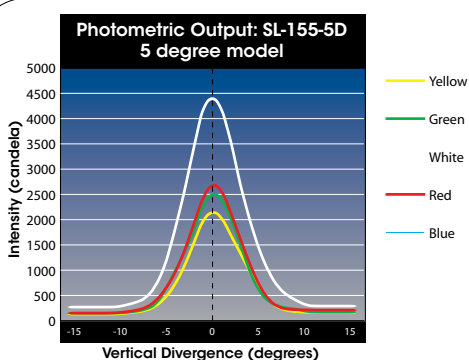
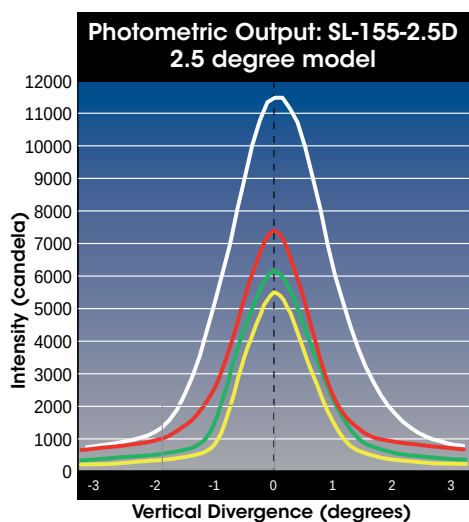
All 3 models can also be ordered with an external Type 1 or Type 3 AIS transponder if required, along with various solar power options.



Optical Performance

Maximum luminous intensity (cd)

	RED	GREEN	WHITE	YELLOW
2.5deg	7,357	6,052	11,505	5,414
5deg	2,765	2,796	4,611	2,778
10deg	2,581	2,213	3,910	2,041

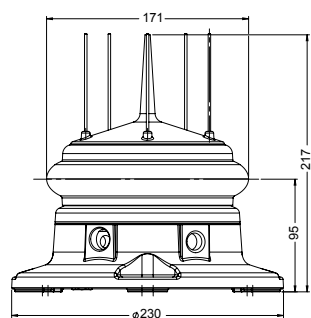


6-13NM Marine Lanterns

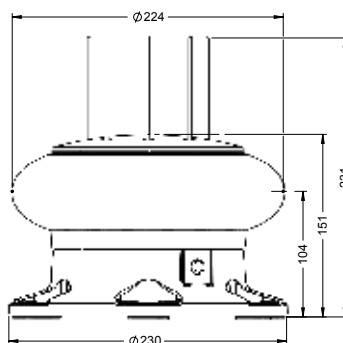
SL-155 Series — SL-155-2.5D, SL-155-5D & SL-155-10D

SPECIFICATIONS * *	5° & 10° Models SL-155-5D & SL-155-10D	2.5° Model SL-155-2.5D
Light Characteristics Light Source Available Colours Maximum Luminous Intensity (cd)† Visible Range (NM) Horizontal Output (degrees) Vertical Divergence (degrees) Available Flash Characteristics Intensity Adjustments LED Life Expectancy (hours)	High efficiency LEDs Red, Green, White, Yellow 5 degree model: Red - 2765 Green - 2796 White - 4611 Yellow - 2778 10 degree model: Red - 2581 Green - 2213 White - 3910 Yellow - 2041 AT @ 0.74: 6-13 AT @ 0.85: 7.8-19.2 0° - 360° 5° or 10° Up to 310 including 256 IALA recommended, & 1 custom User adjustable >100,000	High efficiency LEDs Red, Green, White, Yellow 2.5 degree model: Red - 7357 Green - 6052 White - 11505 Yellow - 5414 AT @ 0.74: 6-13 AT @ 0.85: 7.8-19.2 0° - 360° 2.5° Up to 310 including 256 IALA recommended, & 1 custom User adjustable >100,000
Electrical Characteristics Average Power (W) Circuit Protection Nominal Voltage (VDC) Temperature Range	Variable up to 18 Polarity protected 12-24 -40 to 80°C	Variable up to 22 Polarity protected 12-24 -40 to 80°C
Physical Characteristics Body Material Lens Material Lens Diameter (mm/inches) Lens Design Mounting Height (mm/inches) Width (mm/inches) Mass (kg/lbs) Product Life Expectancy	7-stage powder-coated aluminium UV-stabilised acrylic 171 / 6¾ Multiple LED optic 3 & 4 hole 200mm bolt pattern 217 / 8½ 230 / 9 5 / 11 Up to 12 years	7-stage powder-coated aluminium UV-stabilised acrylic 224 / 8¾ Multiple LED optic 3 & 4 hole 200mm bolt pattern 231 / 9¼ 230 / 9 5.5 / 12¼ Up to 12 years
Environmental Standards Shock Vibration Immersion Salt Fog Ice Loading Wind Exposure Hail Impact Humidity Driving Rain	MIL-STD-202G Test Condition H, Method 213B 30G vertical and 35G horizontal shock MIL-STD-202G, Test Condition B, Method 204D 5G in all axes MIL-STD-202G, Method 104A Rated to withstand continuous exposure to salt water and spray Rated to withstand 22kg/m² Rated to withstand 140knots Rated to withstand 25mm diameter ice ball impact at 20m/s 0 - 100%, condensing at 45° from vertical	MIL-STD-202G Test Condition H, Method 213B 30G vertical and 35G horizontal shock MIL-STD-202G, Test Condition B, Method 204D 5G in all axes MIL-STD-202G, Method 104A Rated to withstand continuous exposure to salt water and spray Rated to withstand 22kg/m² Rated to withstand 140knots Rated to withstand 25mm diameter ice ball impact at 20m/s 0 - 100%, condensing at 45° from vertical
Certifications CE & Electrical IALA Quality Assurance Waterproof	FCC Part 15 Rules & ICES-003. EN61000-6-1: 2007 (IEC61000-6-1:2005) Part 6-1 Immunity. EN61000-6-3: 2007 (IEC61000-6-3: 2006) Electromagnetic compatibility (EMC) - Part 6-3 Emission. IEC61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test Level 4. IEC61000-4-3: 2010 Ed 3.2 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity. IEC61000-4-6: 2008 Ed3., Electromagnetic compatibility (EMC) - Part 4-6 Immunity. Signal colours compliant to IALA E-200-1 ISO9001:2008 IP68	FCC Part 15 Rules & ICES-003. EN61000-6-1: 2007 (IEC61000-6-1:2005) Part 6-1 Immunity. EN61000-6-3: 2007 (IEC61000-6-3: 2006) Electromagnetic compatibility (EMC) - Part 6-3 Emission. IEC61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test Level 4. IEC61000-4-3: 2010 Ed 3.2 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity. IEC61000-4-6: 2008 Ed3., Electromagnetic compatibility (EMC) - Part 4-6 Immunity. Signal colours compliant to IALA E-200-1 ISO9001:2008 IP68
Intellectual Property Trademarks Warranty * Options Available	SEALITE® is a registered trademark of Sealite Pty Ltd 3 years • GPS Synchronisation • AIS Type 1 or Type 3 • GSM Monitoring & Control System • RS232/422/485 Communication Port • General purpose input & output • Variety of solar/battery configurations • Serial programming cable • Hard-wire Synchronisation	SEALITE® is a registered trademark of Sealite Pty Ltd 3 years • GPS Synchronisation • AIS Type 1 or Type 3 • GSM Monitoring & Control System • RS232/422/485 Communication Port • General purpose input & output • Variety of solar/battery configurations • Serial programming cable • Hard-wire Synchronisation

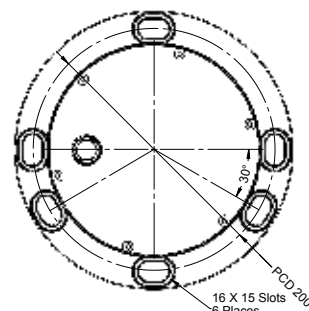
• Specifications subject to change or variation without notice
 * Subject to standard terms and conditions
 † Intensity setting subject to solar availability



SL-155-5D & SL-155-10D Models



SL-155-2.5D Model



Base Pattern

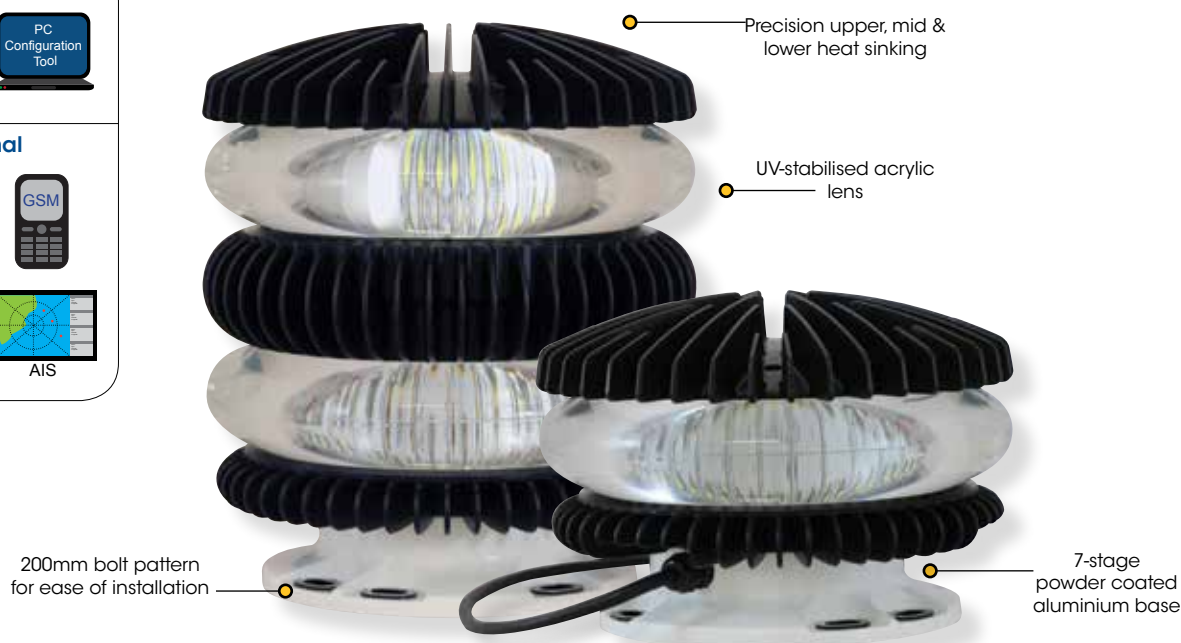
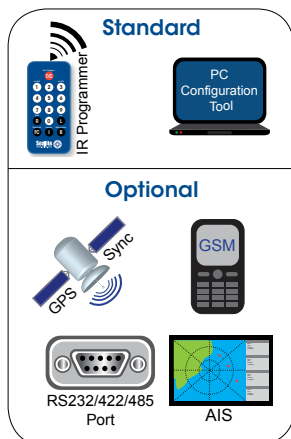


Also available with optional solar power supplies



13-19NM Long Range Lantern

SL-300 Series — SL-300-2D5-1 & SL-300-2D5-2



The Sealite Advantage

- Over 46,000cd luminous intensity white - single tier
- Over 93,000cd luminous intensity white - two tier
- Compact two tier lantern up to 19NM visible range
- PC or IR Programmer for setup, diagnostic & testing
- Internal or external photocell options
- User configurable day/night lux levels
- Advanced remote monitoring features
- Wide operating voltage range 20-58VDC
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- General purpose inputs (two) & outputs (two)

The SL-300-2D5 Series are 13 to 19NM long range marine lanterns with 2.5 degree vertical distribution, suitable for a range of applications.

High Intensity, Small Form Factor

The SL-300-2D5 series offers multiple intensity adjustments to over 46,000cd luminous intensity in a single tier (over 93,000cd in a 2-tier configuration). The small form factor provides minimal wind loading and convenient handling – delivering significant advantages over traditional larger lens stack assemblies.

Advanced Thermal Management

The SL-300-2D5 Series features precision lower, mid and upper heat sinking. The custom designed heat sinks are interconnected, and designed to maintain an appropriate LED temperature across a wide range of duty cycles, enabling the lanterns to run efficiently whilst maintaining a compact size.

Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including;

- Multiple intensity settings
- 310 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

Optional GPS Synchronisation

For flash synchronisation of lanterns a GPS module may be fitted.

Optional GSM Monitoring & Control

The SL-300-2D5 Series may also be fitted with a GSM module for monitoring and control – enabling users to access real-time diagnostic data and change lantern settings via cell-phone.

Optional Type 1 or Type 3 AIS

The SL-300-2D5 Series are available with a class-leading integrated, low-powered Type 1 or Type 3 AIS. When fitted, the AIS is encapsulated within the body of the SL-300-2D5-2 to maintain the weatherproof integrity.



SPECIFICATIONS * *

2.5° Single Tier Model

SL-300-2D5-1

Light Characteristics

Light Source
Available Colours
Maximum Luminous Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Average Power (W)
Circuit Protection
Nominal Voltage (VDC)
Temperature Range

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Environmental Standards

Wind Exposure
Humidity
Driving Rain
Waterproof

Certifications

Immunity
Emission
FCC Part 15 Subpart B
IALA
Quality Assurance

Intellectual Property

Trademarks

Warranty *

Options Available

High efficiency LEDs
White. Other colours available on request
White - 46,700
AT @ 0.74: 13-17.5
AT @ 0.85: 19.2-26.9
0° - 360°
>2.5
Up to 310 including 256 IALA recommended, & 1 custom
User adjustable
>100,000

Variable up to 132W
Polarity protected
24-48
-40 to 60°C

7-stage powder-coated aluminium
UV-stabilised acrylic
298 / 11¾
Multiple LED optic
3 & 4 hole 200mm bolt pattern
216 / 8½
298 / 11¾
8.8 / 19½
Up to 12 years ^

Rated to withstand 140knots
0 - 100%, condensing
at 45° from vertical
IP68

EN 61000-6-1: 2007 (IEC61000-6-1: 2005).
EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) + A1: 2001.
FCC Part 15 Subpart B.
Signal colours compliant to IALA E-200-1
ISO 9001:2015

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- GPS Synchronisation
- AIS Type 1 or Type 3
- GSM Monitoring & Control System
- RS232/422/485 Port
- General purpose inputs (2) & outputs (2)
- Variety of solar/battery configurations
- Bird deterrent spikes
- Serial programming cable

2.5° Two Tier Model

SL-300-2D5-2

High efficiency LEDs
White. Other colours available on request
White - 93,400
AT @ 0.74: 18-19
AT @ 0.85: 27.8-29.6
0° - 360°
>2.5

Up to 310 including 256 IALA recommended, & 1 custom
User adjustable
>100,000

Variable up to 264W
Polarity protected
24-48
-40 to 60°C

7-stage powder-coated aluminium
UV-stabilised acrylic
298 / 11¾
Multiple LED optic
3 & 4 hole 200mm bolt pattern
342 / 13½
298 / 11¾
18 / 39¾
Up to 12 years ^

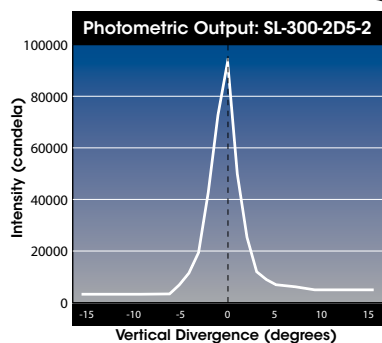
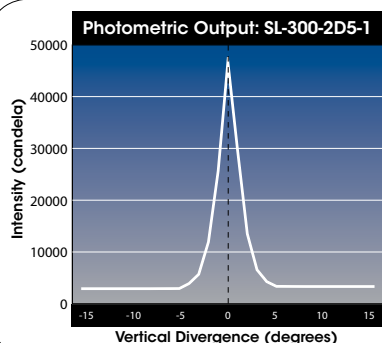
Rated to withstand 140knots
0 - 100%, condensing
at 45° from vertical
IP68

EN 61000-6-1: 2007 (IEC61000-6-1: 2005).
EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) + A1: 2001.
FCC Part 15 Subpart B.
Signal colours compliant to IALA E-200-1
ISO 9001:2015

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- GPS Synchronisation
- AIS Type 1 or Type 3
- GSM Monitoring & Control System
- RS232/422/485 Port
- General purpose inputs (2) & outputs (2)
- Variety of solar/battery configurations
- Bird deterrent spikes
- Serial programming cable

^ Refer to the Sealite website under the warranty section

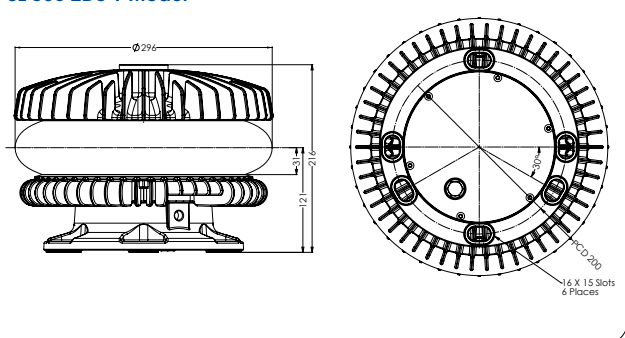


Optical Performance

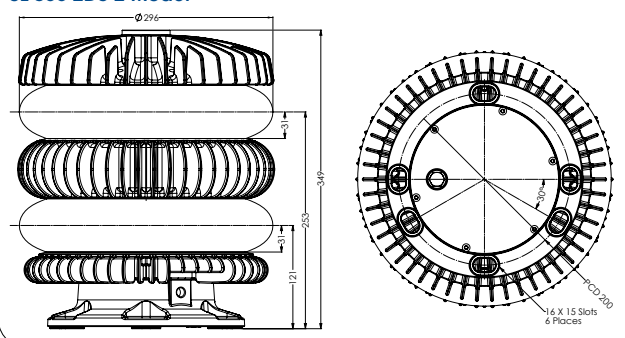
Maximum luminous intensity (cd)

	WHITE
SL-300-2D5-1	46,700
SL-300-2D5-2	93,400

SL-300-2D5-1 Model

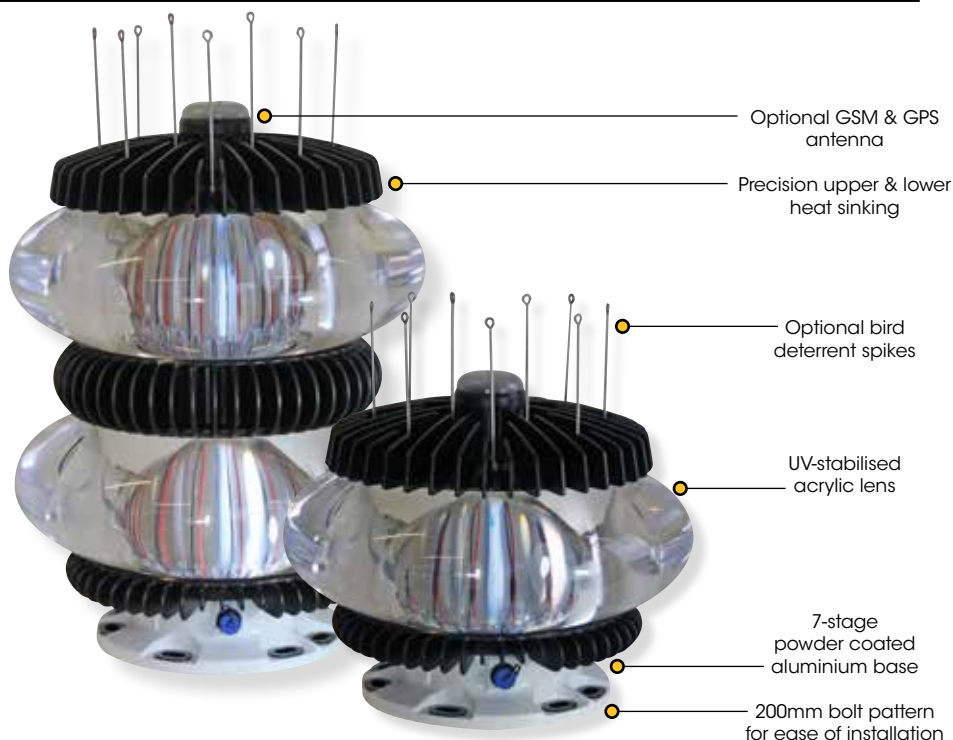
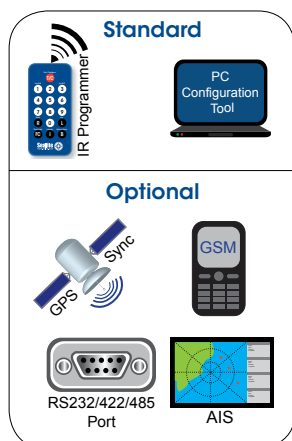


SL-300-2D5-2 Model



13-21NM Long Range Lanterns

SL-300 Series — SL-300-1D5-1 & SL-300-1D5-2



The Sealite Advantage

- Over 90,000cd luminous intensity white – single tier
- Over 180,000cd luminous intensity white – two tier
- Compact lantern up to 21NM visible range
- PC or IR Programmer for setup, diagnostic & testing
- Internal or external photocell options
- User configurable day/night lux levels
- Advanced remote monitoring features
- Wide operating voltage range 20-58VDC
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- General purpose inputs (two) & outputs (two)

The SL-300-1D5 series are 13 to 21NM long range marine lanterns with 1.5 degree vertical distribution, suitable for a range of day and night applications.

High Intensity, Small Form Factor

The SL-300-1D5 series offers multiple intensity adjustments to over 90,000cd luminous intensity in a single tier (over 180,000cd in a 2-tier configuration). The small form factor provides minimal wind loading and convenient handling – delivering significant advantages over traditional larger lens stack assemblies.

High Efficiency

The long range lanterns produce a class-leading intensity to power ratio, making them highly efficient and suitable for solar power solutions.

Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including;

- Multiple intensity settings
- 310 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

Optional GPS Synchronisation

For flash synchronisation of lanterns a GPS module may be fitted.

Optional GSM Monitoring & Control

The SL-300-2D5-1 lantern may be fitted with a GSM module for monitoring and control – enabling users to access real-time diagnostic data and change lantern settings via cell-phone.

Optional Type 1 or Type 3 AIS

The SL-300-1D5 lantern is available with class-leading integrated, low-powered Type 1 or Type 3 AIS. When fitted, the AIS is encapsulated within the body of the lantern to maintain the weatherproof integrity.



Precision upper heat sink



Shown with optional GPS antenna

SPECIFICATIONS * *

1.5° Single Tier Model

1.5° Two Tier Model

SL-300-1D5-1

SL-300-1D5-2

Light Characteristics

Light Source
Available Colours
Maximum Luminous Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Average Power (W)
Circuit Protection
Nominal Voltage (VDC)
Temperature Range

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Environmental Standards

Wind Exposure
Humidity
Driving Rain
Waterproof

Certifications

Immunity
Emission
FCC Part 15 Rules
IALA
Quality Assurance

Intellectual Property

Trademarks

Warranty *

Options Available

High efficiency LEDs
White. Other colours available on request
White - 94,400
AT @ 0.74: 13-19
AT @ 0.85: 19.2-29.6
0° - 360°
>1.5
Up to 310 including 256 IALA recommended, & 1 custom
User adjustable
>100,000

Variable up to 132W
Polarity protected
24-48
-40 to 60°C

7-stage powder-coated aluminium
UV-stabilised acrylic
373 / 14¼
Multiple LED optic
3 & 4 hole 200mm bolt pattern
302 / 12
373 / 14¼
18.5 / 40¼
Up to 12 years ^

Rated to withstand 140knots
0 - 100%, condensing
at 45° from vertical
IP68

EN 61000-6-1: 2007 (IEC61000-6-1: 2005).
EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) + A1: 2001.
FCC Part 15 Subpart B.
Signal colours compliant to IALA E-200-1
ISO 9001:2015

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- GPS Synchronisation
- AIS Type 1 or Type 3
- GSM Monitoring & Control System
- RS232/422/485 Port
- General purpose inputs (2) & outputs (2)
- Variety of solar/battery configurations
- Bird deterrent spikes
- Serial programming cable

High efficiency LEDs
White. Other colours available on request
White - 188,800
AT @ 0.74: 19-21
AT @ 0.85: 29.6-33
0° - 360°
>1.5
Up to 310 including 256 IALA recommended, & 1 custom
User adjustable
>100,000

Variable up to 264W
Polarity protected
24-48
-40 to 60°C

7-stage powder-coated aluminium
UV-stabilised acrylic
373 / 14¼
Multiple LED optic
3 & 4 hole 200mm bolt pattern
496 / 19½
373 / 14¼
38.5 / 85
Up to 12 years ^

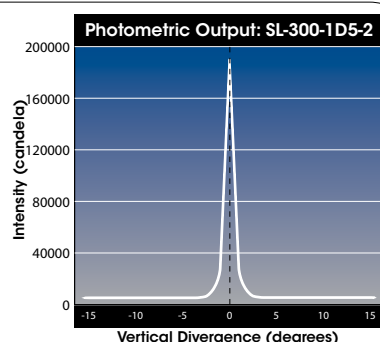
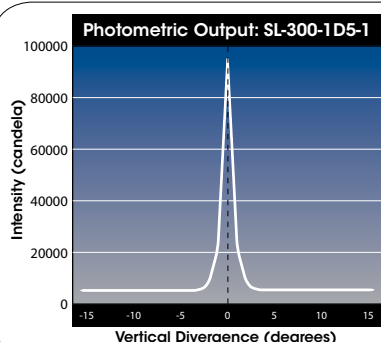
Rated to withstand 140knots
0 - 100%, condensing
at 45° from vertical
IP68

EN 61000-6-1: 2007 (IEC61000-6-1: 2005).
EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) + A1: 2001.
FCC Part 15 Subpart B.
Signal colours compliant to IALA E-200-1
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SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- GPS Synchronisation
- AIS Type 1 or Type 3
- GSM Monitoring & Control System
- RS232/422/485 Port
- General purpose inputs (2) & outputs (2)
- Variety of solar/battery configurations
- Bird deterrent spikes
- Serial programming cable

^ Refer to the Sealite website under the warranty section



Optical Performance

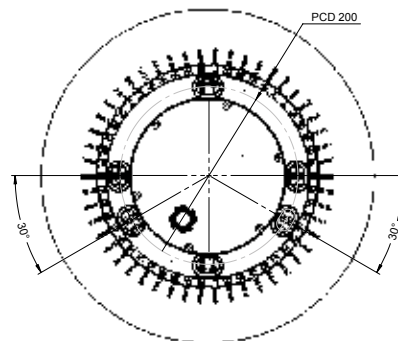
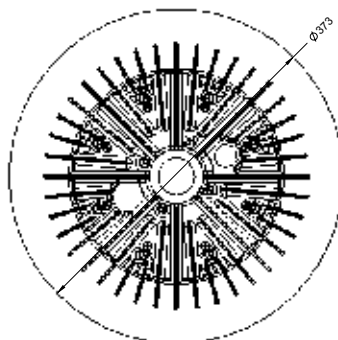
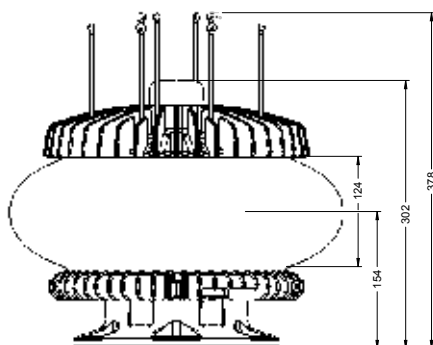
Maximum luminous intensity (cd)

	WHITE
SL-300-1D5-1	94,400
SL-300-1D5-2	188,800

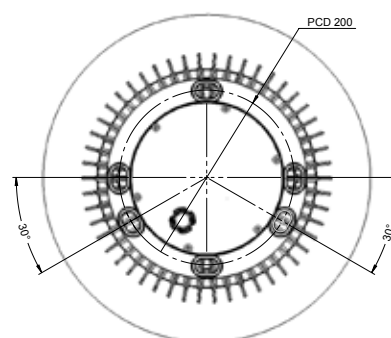
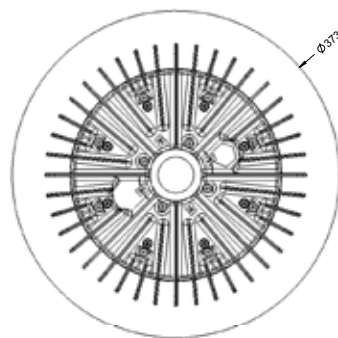
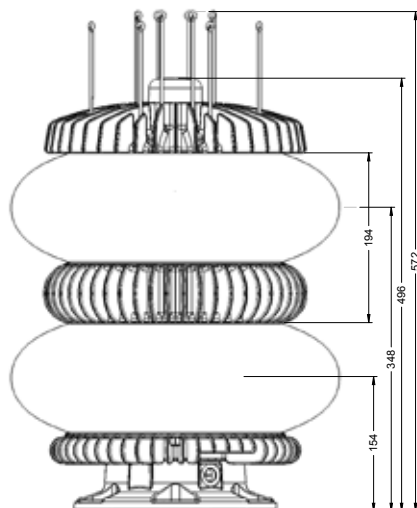
13-21NM Long Range Lanterns

SL-300 Series — SL-300-1D5-1 & SL-300-1D5-2

SL-300-1D5-1 Model



SL-300-1D5-2 Model



HOW TO ORDER

13-21NM Long Range Lantern

SL-300-1D5-[tiers]-[colour]-[?]-[?]

Product No.:

Model:

1D5 = 1.5° Divergence

Tiers:

1 = Single tier

2 = Two tier

Colour:

W = White

(other colours available on request)

Monitoring & Control:

GSM = GSM

GPS = GPS Synchronisation

AIS1 = AIS Type 1

AIS3 = AIS Type 3

[blank] = No monitoring & control

RS Communications Port:

RS = RS communications port

[blank] = No RS communications port

Note: Please contact your Sealite representative for optional power supply solutions

HOW TO ORDER

Solar Power Supply

SL-PS-110-140-01

Product No.:

Battery Capacity:

110 = 110 Ah

Solar Output:

140 = 140 watts

Mount Type:

01 = post mount



Marine Lanterns

Port Entry &
Range Lights

Barge &
Bridge Lights

Area Lighting

Monitoring &
Control Systems

Marine Buoys

Mooring Systems
& Accessories

Power Systems

Reference
Guides



Offshore NAVAIDS

USCG Approved

Class 'A' Lanterns	54
Class 'B' Lanterns	54
Class 'B' Solar Lanterns	56
Class 'C' Solar Lanterns	56



Sealite's Class A, B and C U.S. Coast Guard Approved Lanterns are specifically designed and engineered to meet the needs of such structures in the Gulf of Mexico.

These lanterns feature high performance electronics to maximise light output and minimise power consumption, and are IP68 waterproof.

Multiple independent lanterns may be set up with internal RF comm sync modules which allow for flash synchronisation. Time delay settings ensure lanterns don't flash in synchronisation with other platform RF synchronised lanterns.



Class 'A' Lantern

SL-CGA125-2-W

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66

The SL-CGA125-2-W is a United States Coast Guard approved Class 'A' structure lantern specifically designed to meet the needs of Class 'A' structures in the Gulf of Mexico.

The lantern utilises 72 LEDs as a light source, enhanced by Sealite's LED lens and omnidirectional LED reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918) to gain optimum LED performance.

The SL-CGA125-2-W is one of the most advanced LED marine lanterns on the market. Utilising the latest software and micro circuitry developments, the lantern boasts a huge number of features including flash-memory and the most efficient power conversion available.

The Sealite Advantage

- U.S. Coast Guard Approved
- Low maintenance (LED technology)
- Easy retrofit on existing structures
- Available with proprietary flash 'synchronisation' software
- IP68 waterproof

The SL-CGB125-1-W is a United States Coast Guard approved Class 'B' structure lantern specifically designed to meet the needs of Class 'B' structures.

The SL-CGB125-1-W boasts a huge number of features including flash-memory and the most efficient power conversion available. The light utilises 36 LEDs as a light source, enhanced by Sealite's LED lens and omnidirectional LED reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918) to gain optimum LED performance.

The unit is supplied with a 1mtr pigtail for 12V power input, and is ideal to fit on existing structures or can be supplied as a complete unit with external solar modules and battery compartment.

Bird deterrent spike

LED lens and Sealite's 360° Omnidirectional LED Reflector
(US Pat. No. 6,667,582. AU Pat. No. 778,918)

Lens and base moulded from UV-stabilised LEXAN® polycarbonate

Optional



Automatic night activation

72 ultra-high intensity LEDs

200mm bolt pattern

This lantern is available in a hard-wired, RF or GPS Synchronised versions for multiple lantern installations

Class 'B' Lantern

SL-CGB125-1-W

Bird deterrent spike

LED lens and Sealite's 360° Omnidirectional LED Reflector
(US Pat. No. 6,667,582. AU Pat. No. 778,918)

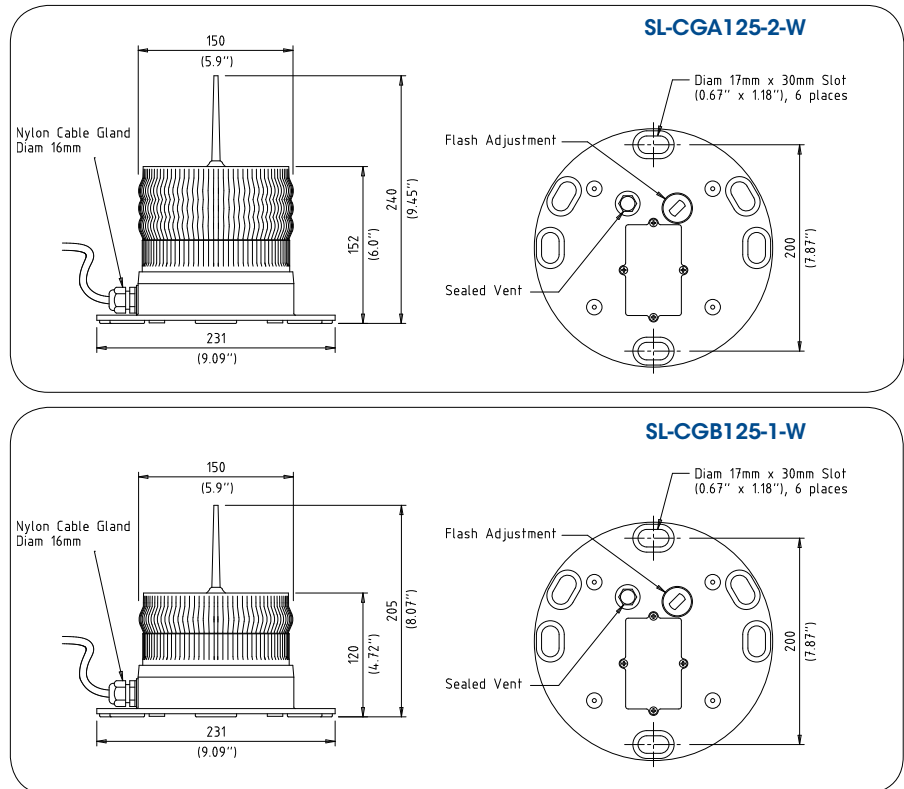
Lens and base moulded from UV-stabilised LEXAN® polycarbonate

Automatic night activation

36 ultra-high intensity LEDs

200mm bolt pattern

This lantern is available in a hard-wired, RF or GPS Synchronised versions for multiple lantern installations



SPECIFICATIONS * *	SL-CGA125-2-W	SL-CGB125-1-W
USCG Approval	Class A	Class B
Light Characteristics		
Light Source	72 ultra-high intensity LEDs	36 ultra-high intensity LEDs
Available Colours	White	White
Effective Intensity (cd)	148 Candela (@ QF 0.3sec ON)	79 Candela (@ QF 0.3sec ON)
Visible Range (NM)	AT @ 0.74: >5 AT @ 0.85: >6.3	AT @ 0.74: >3 AT @ 0.85: >3.5
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	9	9
Reflector Type	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918)	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918)
Available Flash Characteristics	Up to 310 IALA recommended (user adjustable)	Up to 310 IALA recommended (user adjustable)
Intensity Adjustments	Adjustable in 25% increments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000	>100,000
Synchronisation	Optional via hard-wire or GPS	Optional via hard-wire or GPS
Electrical Characteristics		
Current Draw (mA)	640	320
Circuit Protection	Integrated	Integrated
Nominal Voltage (V)	12	12
Temperature Range	-40 to 80°C	-40 to 80°C
Physical Characteristics		
Body Material	LEXAN® Polycarbonate – UV-stabilised	LEXAN® Polycarbonate – UV-stabilised
Lens Material	LEXAN® Polycarbonate – UV-stabilised	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	150 / 5 7/8	150 / 5 7/8
Lens Design	External optics with interior flute design	External optics with interior flute design
Mounting	200mm bolt pattern	200mm bolt pattern
Height (mm/inches)	240 / 9 1/2	205 / 8 1/8
Width (mm/inches)	231 / 9 1/8	231 / 9 1/8
Mass (kg/lbs)	1.2 / 2 2/3	1.1 / 2 1/2
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^
Certifications		
CE	EN61000-6-3:2001. EN61000-6-1:2001. EN55022. EN61000-4-2:1995. EN61000-4-3:2002. Signal colours compliant to IALA E-200-1 ISO 9001:2015 IP68	EN61000-6-3:2001. EN61000-6-1:2001. EN55022. EN61000-4-2:1995. EN61000-4-3:2002. Signal colours compliant to IALA E-200-1 ISO 9001:2015 IP68
IALA		
Quality Assurance		
Waterproof		
Intellectual Property		
Patents	US Pat. No. 6,667,582. AU Pat. No. 778,918	US Pat. No. 6,667,582. AU Pat. No. 778,918
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	3 years	3 years
Options Available	• Additional cable • Hard-wire Synchronisation • AIS Remote Monitoring • GSM Monitoring & Control System • GPS Synchronisation	• Additional cable • Hard-wire Synchronisation • AIS Remote Monitoring • GSM Monitoring & Control System • GPS Synchronisation

^ Refer to the Sealite website under the warranty section

Class 'B' & 'C' Solar Lantern

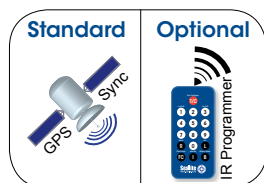
SL-CGB310-W

US Coast Guard approved Class 'B' lantern

The SL-CGB310-W is a self-contained solar marine lantern designed to meet the United States Coast Guard requirements for Class 'B' and Class 'C' structures.

The lantern incorporates (4) premium grade solar modules and large 12Ah battery integrated into the assembly, and is available with GPS synchronisation. Using overhead satellites, lights set to the same flash pattern will flash in unison.

The larger SL-CGB415-W model may also be fitted with GSM Cell-Phone Monitoring and Control – enabling users to access real-time diagnostics data via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.



Robust 7-stage powder-coated aluminium chassis with rubber extruded corners

3 & 4 hole 200mm bolt pattern base for ease of installation



The Sealite Advantage

- U.S. Coast Guard Approved
- User-replaceable battery in sealed battery compartment
- >45 day autonomy
- 200mm bolt pattern for immediate installation on existing structures
- IP68 waterproof

The SL-CGC60-W is a United States Coast Guard approved Class 'C' structure lantern specifically designed to meet the needs of Class 'C' structures in the Gulf of Mexico.

The unit is completely self-contained with an integrated solar/battery system, and can be easily installed in minutes. The flash characters are adjustable onsite by the user, and the lantern has a permanent ON/OFF storage switch.

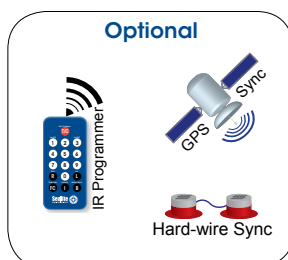
The SL-CGC60-W's large 16Ah battery enables greater than 45 days autonomy. The battery is housed in a sealed compartment (IP68 waterproof) allowing for replacement after years of maintenance-free service.

The IP68 waterproof sealed connector and momentary switch on the lantern enable maintenance personnel to simply connect a test lead to diagnose the battery voltage and solar charging rate, in accordance to maintenance contracts.

Class 'C' Solar Lantern

SL-CGC60-W

The most advanced USCG approved Class 'C' lantern available

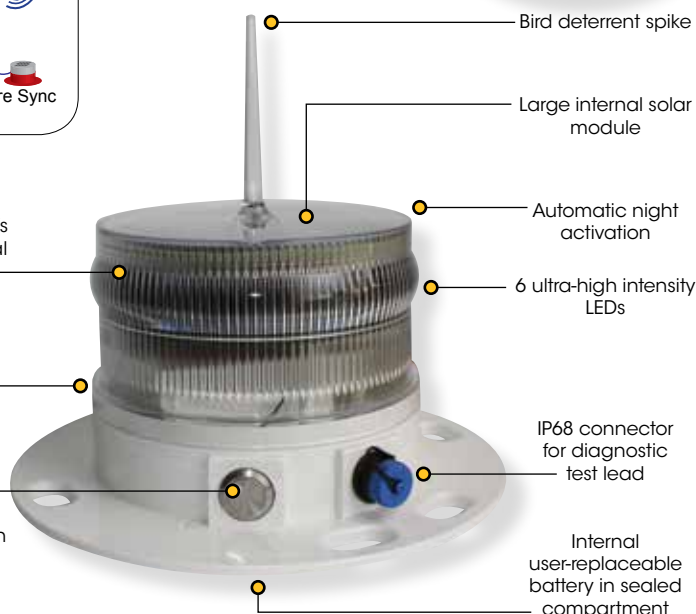


External connector & momentary switch for ease of diagnostic testing to meet maintenance contract requirements

LED lens and Sealite's 360° Omnidirectional LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918)

Moulded from UV-stabilised virgin polycarbonate

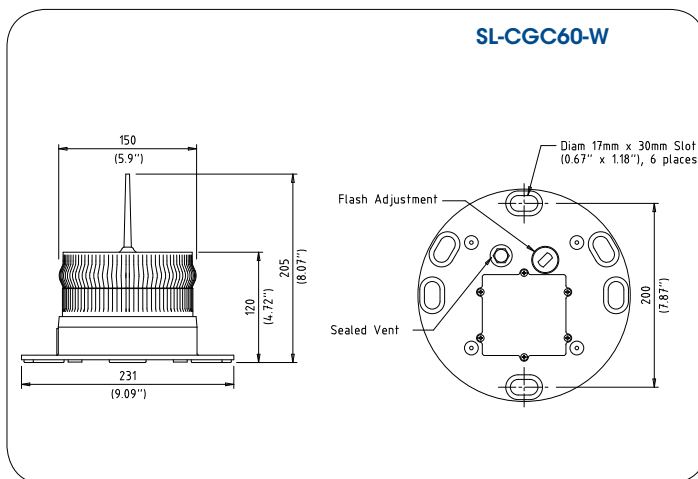
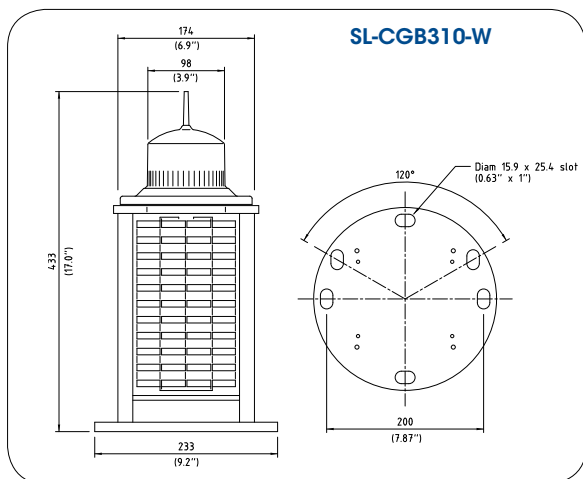
Momentary switch (operator presses this to obtain diagnostics)





Class 'B' & 'C' Solar Lanterns

SL-CGB310-W / SL-CGC60-W



SPECIFICATIONS* *	SL-CGB310-W	SL-CGC60-W
USCG Approval	Class B & C	Class C
Light Characteristics		
Light Source	LED	6 ultra-high intensity LEDs
Available Colours	White	White
Effective Intensity (cd) †	White - >25	10 Candela (@ QF 0.3sec ON)
Visible Range (NM)	AT @ 0.74: >3	AT @ 0.74: >1
	AT @ 0.85: >3.5	AT @ 0.85: >1.1
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	>7	9
Available Flash Characteristics	Up to 310 IALA recommended (user adjustable)	Up to 310 IALA recommended (user adjustable)
Intensity Adjustments	Multiple intensity settings	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000	>100,000
Synchronisation	Standard via GPS module	Optional via GPS module or hard-wire
Electrical Characteristics		
Current Draw (mA)	Refer to Sealite Power Calculator	Minimal
Circuit Protection	Integrated	Integrated
Nominal Voltage (V)	12	3.6
Autonomy (days)	>60 (14 hour darkness, 12.5% duty cycle)	>45 (>30 days for SL-CGC60-W-CS)
Temperature Range	-40 to 80°C	-40 to 80°C
Solar Characteristics		
Solar Module Type	Multicrystalline	Multicrystalline
Output (watts)	12 (4 x 3watt)	1.4 (2.5watt for SL-CGC60-W-CS)
Charging Regulation	Microprocessor controlled	Microprocessor controlled
Power Supply		
Battery Type	Gel SLA	High grade NiMH
Battery Capacity (Ah)	12	16
Nominal Voltage (V)	12	3.6
Physical Characteristics		
Body Material	7-stage powder-coated aluminium chassis with UV-stabilised rubber corners & gaskets	LEXAN® Polycarbonate - UV-stabilised
Lens Material	LEXAN® Polycarbonate - UV-stabilised	LEXAN® Polycarbonate - UV-stabilised
Lens Diameter (mm/inches)	98 / 3 7/8	150 / 5 7/8
Lens Design	Single LED Optic	External optics with interior flute design
Mounting	3 & 4 hole 200mm bolt pattern	200mm bolt pattern
Height (mm/inches)	433 / 17	205 / 8 1/8 (240mm / 9 1/2 inches for SL-CGC60-W-CS)
Width (mm/inches)	233 / 9 1/5	231 / 9 1/5
Mass (kg/lbs)	9.4 / 20 3/4	1.5 / 3 1/3
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^
Certifications		
CE	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:2001. EN61000-6-1:2001. EN55022. EN61000-4-2:1995. EN61000-4-3:2002.
IALA	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO 9001:2015	ISO 9001:2015
Waterproof	IP68	IP68
Intellectual Property		
Patents	SEALITE® is a registered trademark of Sealite Pty Ltd	US Pat. No. 6,667,582. AU Pat. No. 778,918
Trademarks	3 years	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *		3 years
Options Available	50mm pole mount adapter plate - IR Programmer - External ON/OFF Switch - External Battery Charging Port - GPS Synchronisation: enable/disable 5° Lens	- GPS Synchronisation - RF Synchronisation - Hard-wire Synchronisation - Radio Control System

^ Refer to the Sealite website under the warranty section





Lighthouse Equipment

High Output LED Light Source

60

Universal LED Controller

63

Lighthouse
Equipment

Port Entry &
Range Lights

Barge &
Bridge Lights

Area Lighting

Monitoring &
Control Systems

Marine Buoys

Mooring Systems
& Accessories

Power Systems

Reference
Guides

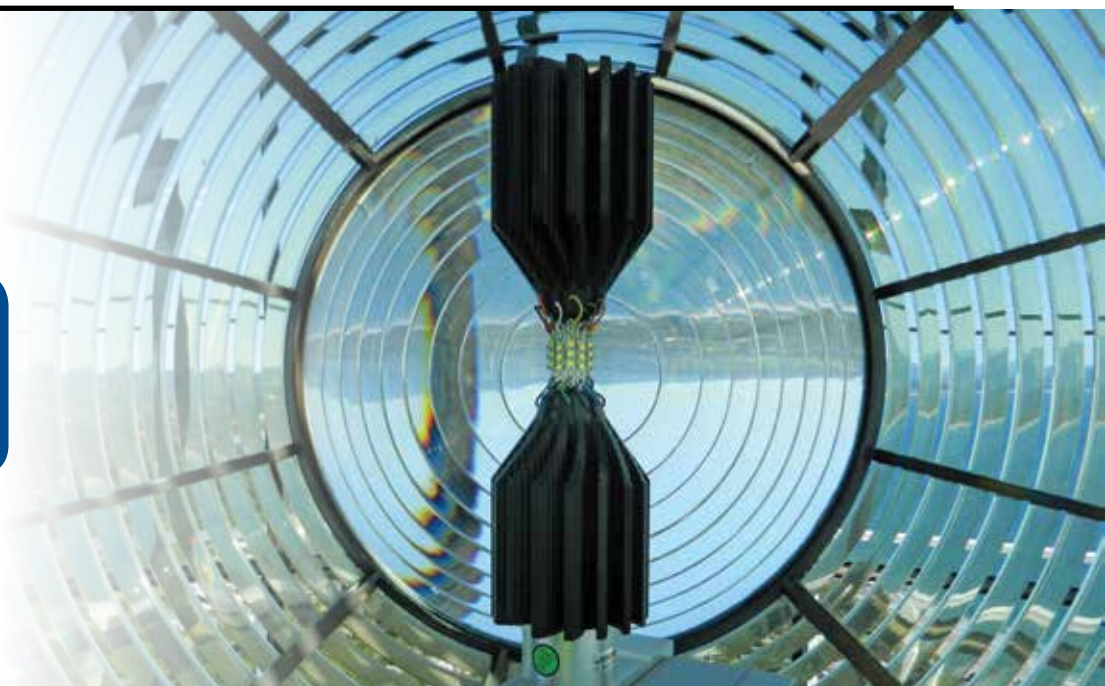
In 2013, Sealite UK signed a manufacturing agreement with Trinity House to produce a new LED light source developed by the General Lighthouse Authorities Research and Radionavigation Directorate. The new light source is designed for modernisation of large lighthouse prismatic lenses, increasing their efficiency and reducing maintenance.

In late 2014, Sealite introduced a purpose-built universal LED controller, designed to be used in conjunction with Sealite's LED Light Source. Since then, Sealite has become the world leader in converting traditional lighthouses to LED technology.

High Output LED Light Source

SL-LED Series for rotating or fixed lenses

Originally developed
by the GLA R&RNAV
Directorate and
manufactured under
license to Trinity House.



The Sealite Advantage

- Retains the historical heritage of the lighthouse by utilising the optical efficiency of the lens
- Typically can reduce power consumption to approximately 15-20% of the original lamp
- Individual LEDs which shine over land may be turned OFF, resulting in additional power saving. This can be achieved in both flashing and rotating applications
- Can utilise customer's existing pedestal & controls
- LEDs can be powered from one or two synchronised controllers which drive alternate LEDs for added redundancy if required
- Creates the option to change the power source of the total lighthouse to solar
- Plug & play connectors make installation & servicing simple

The SL-LED Series are revolutionary solid-state light sources designed to replace traditional lamps in classical lighthouse optics. Their long life and high luminous efficiency makes huge savings in energy and maintenance possible whilst retaining the heritage value and optical efficiencies of the classical optical apparatus.

Capable of continuous or flashing operation, the SL-LED series is suitable for use in revolving or fixed optics. Their crisp, white light improves conspicuity in light polluted areas while in flashing mode instantly providing an 'eye-catching' sharp flash at full brilliance.

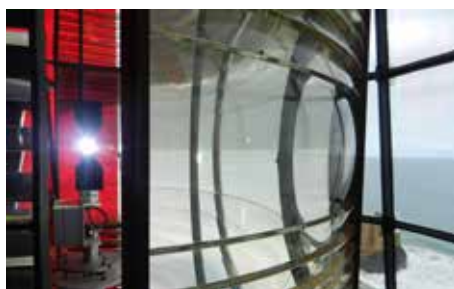
Low power and low voltage DC operation ensure that the SL-LED Series is well suited to battery and renewable energy power sources, such as solar photovoltaic. This further reduces running costs and the carbon footprint. The universal control provided can accommodate a wide range of power supply choices, operating modes and power levels.

Universal LED Controller

The LED Light Source can be used in conjunction with Sealite's Universal LED Controller and PC Configuration Tool to provide a range of features including advanced monitoring capabilities to monitor conditions such as LED status, power supply and turntable rotation speed. The Controller also allows advanced programming features to be configured, including intensity settings, flash character and a selection of alarm conditions.

Mounting Pedestal

The LED Light Source is easily mounted using Sealite's LED Pedestal. The inclusion of plug and play connectors make installation and servicing a simple task suitable for most mounting arrangements.



Lifetime

The expected lifetime of the LEDs is approximately ten years, at which point their output is likely to be 70% of their original brightness. When compared with a lighthouse lamp with a life of 800 hours or a halogen lamp with a life of 2000 hours, these represent exceptional savings in maintenance and replacement costs.

Consultancy Service

Sealite offers a consultative service to either survey the lighthouse on-site or prepare recommendations from customer supplied photographs and detailed lens drawing. This service enables customers to establish the range of a particular light source in the selected lens. Sealite can also provide a suitable check list form to help streamline this process.



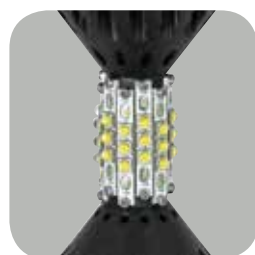
Shown with the Universal LED Controller, the light source is easily programmable using Sealite's PC Configuration Tool

For further technical information, please visit www.sealite.com/products/lighthouse-equipment

Sealite LED Array Number	Maximum Power Rating (W)	No. of LEDs in Array	Light Source Height (mm)	Average Light Source Width (mm)	Light Source Area (cm ²)	Average Horizontal Intensity (cd)	Nominal Average Luminance (cd/cm ²)
SL-LED-216	240	24	10	15	1.6	3360	2100
SL-LED-324	360	36	16	25.7	4.1	3450	841

Please note:

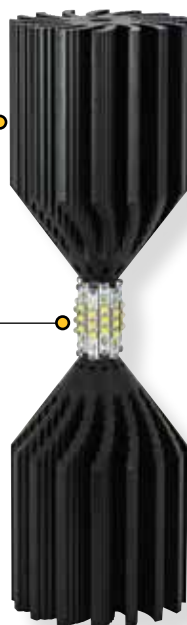
1. The quoted figures are for peak outputs when operating at 100% intensity.
2. The maximum recommended power duty cycle including flash character is 50% for low to moderate temperature environments (up to 30degrees). The system includes thermal monitoring of the light source and controller.
3. Specification's are subject to change without notice.



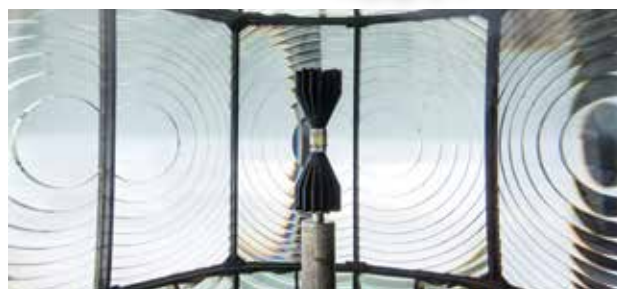
SL-LED-324 Model

Anodised heat sinks to maintain temperature of LEDs on steady burning duties

Overall diameter of LED array ideally matches original light source and retains flash length



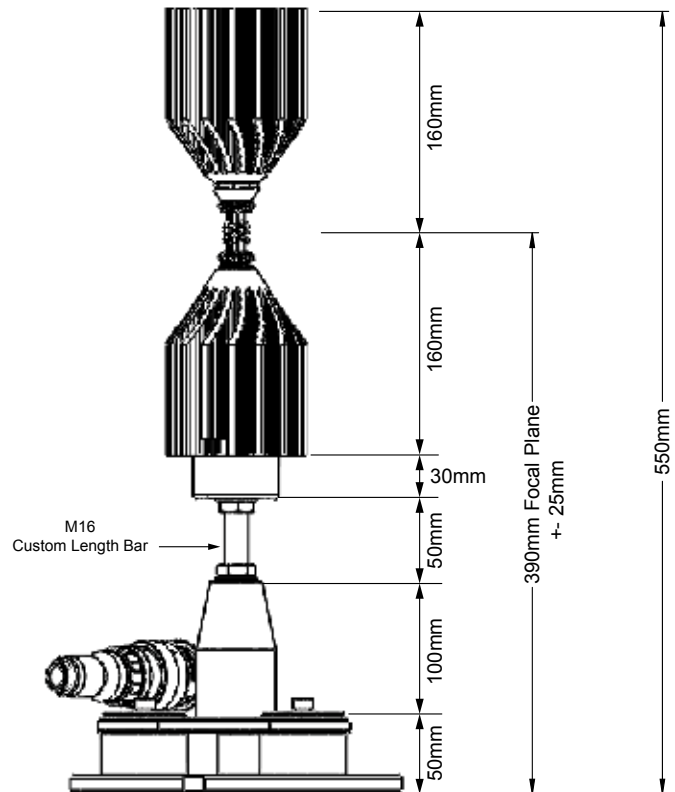
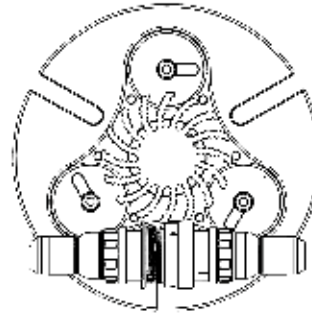
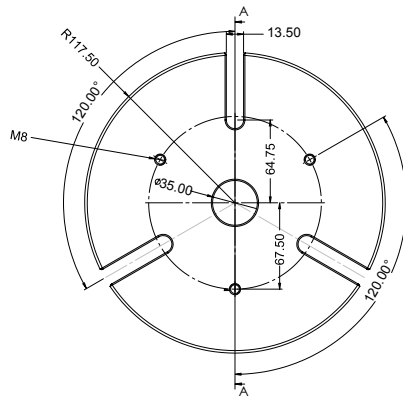
Shown with pedestal



High Output LED Light Source

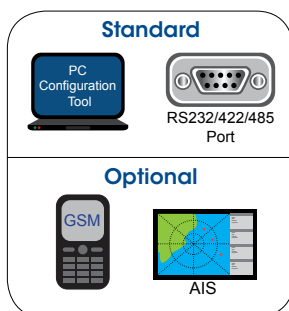
SL-LED Series for rotating or fixed lenses

Mounting Pedestal



Universal LED Controller

SL-LED-CTRL Series for rotating or fixed lenses



The Sealite Advantage

- Single driver capable of controlling Sealite's range of LED light sources
- Built-in interface for turntable lens rotation monitoring
- PC Programmer for setup, diagnostic & testing
- Built-in Interface in RS232 and RS422/485 format for third party monitoring
- AIS & GSM built-in options available removing the need to interconnect additional devices
- General purpose inputs (two) & outputs (two)
- Alarm contact for remote monitoring
- Built-in interface for external photocell connection
- Built-in temperature sensor
- Lighthouse can now be synchronised to breakwater or buoy channel

The Universal LED Controller is used in conjunction with Sealite's LED Light Source. The model includes a range of advanced monitoring features and can deliver power up to 270 watts.

Used in conjunction with Sealite's LED Light Source

The LED Light Source is designed to replace traditional lamps in classical lighthouse optics. Their long life and high luminous efficiency makes huge savings in energy and maintenance possible, whilst retaining the heritage value of classical optical apparatus.

Advanced Monitoring

The LED Controller has advanced monitoring capabilities utilising alarm relay and RS232 and RS422/485 to monitor;

- LED status
- Power supply
- Temperature
- Light levels
- Internal fault conditions
- Turntable rotation speed

Advanced Programming

The LED Controller can be configured to suit a range of requirements including partial, phased-in or complete lighthouse modernisation. Sealite's convenient PC Configuration Tool allows a host of features to be set including;

- Multiple intensity settings
- 310 flash settings including custom character
- Adjustable on/off lux levels
- Low battery threshold
- Alarm conditions
- Speed tolerance variation

Redundant Failsafe

The LED controller includes a series of independent driver outputs, providing redundancy as each LED is controlled by a separate output driver.



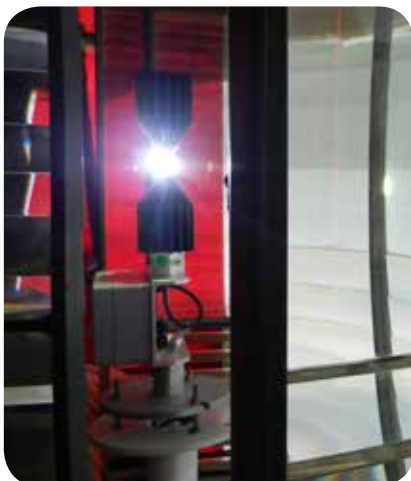
LED Controller with 110/240 supply



LED Controller works in conjunction with Sealite's SL-LED Series Light Source

Universal LED Controller

SL-LED-CTRL Series for rotating or fixed lenses



SPECIFICATIONS • *

SL-LED-CTRL Series

Controller Characteristics

No. LED Drivers
Driver output characteristics

Available Flash Characteristics
Intensity Adjustments

Electrical Characteristics

For single board 6-sided version:
Current Draw (A)

Power (W)

Circuit Protection

Nominal Voltage

Temperature Range
External 3rd Party Monitoring
AIS Connection
Alarm Contacts
External Inputs
External Outputs

Physical Characteristics

Body Material
Mounting
Height (mm/inches)
Width (mm/inches)
Depth (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Environmental Standards

Low Temperature
High Temperature
Salt Fog
Humidity

Certifications

CE & Electrical

Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

Dual board: 12 drivers
SL-LED-CTRL-01: capable of driving up to 21V @ 1.5A
SL-LED-CTRL-02: capable of driving up to 15V @ 3A
Up to 310 including 256 IALA recommended, & 1 custom
User adjustable

VDC Model: Variable up to 11.25A @ 24VDC
VAC Model: Variable up to 1A
VDC Model: Variable up to 270W
VAC Model: Variable up to 240W
Polarity protected

VDC Model: 18-32VDC
VAC Model: 110-240VAC
-40 to 60°C
Via RS232
Via RS232 (if built-in module not selected)
1 x Volt free 250VAC @ 5A or 30VDC @ 5A
2 x general purpose digital inputs 3-24VDC
2 x general purpose digital outputs will switch up to 24VDC @ 1A

Baked enamel coated aluminium
4 x 6mm screws
111 / 4½
400 / 15¾
230 / 9
5 / 11
Up to 12 years ^

MIL-STD-810G Method 502.5
MIL-STD-810G Method 501.5
Rated to withstand continuous exposure to salt water and spray
0 - 100%, condensing

FCC Part 15 Rules & ICES-003.
EN61000-6-1: 2007 (IEC61000-6-1:2005) Part 6-1 Immunity.
EN61000-6-3: 2007 (IEC61000-6-3: 2006) Electromagnetic compatibility (EMC) - Part 6-3 Emission.
IEC61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test Level 4.
IEC61000-4-3: 2010 Ed 3.2 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity.
IEC61000-4-6: 2008 Ed3. , Electromagnetic compatibility (EMC) - Part 4-6 Immunity.
ISO 9001:2015
IP67

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- AIS Type 1 or Type 3
- GSM Monitoring & Control System
- Solar Power
- Float charged battery standby systems
- GPS antenna for synchronisation

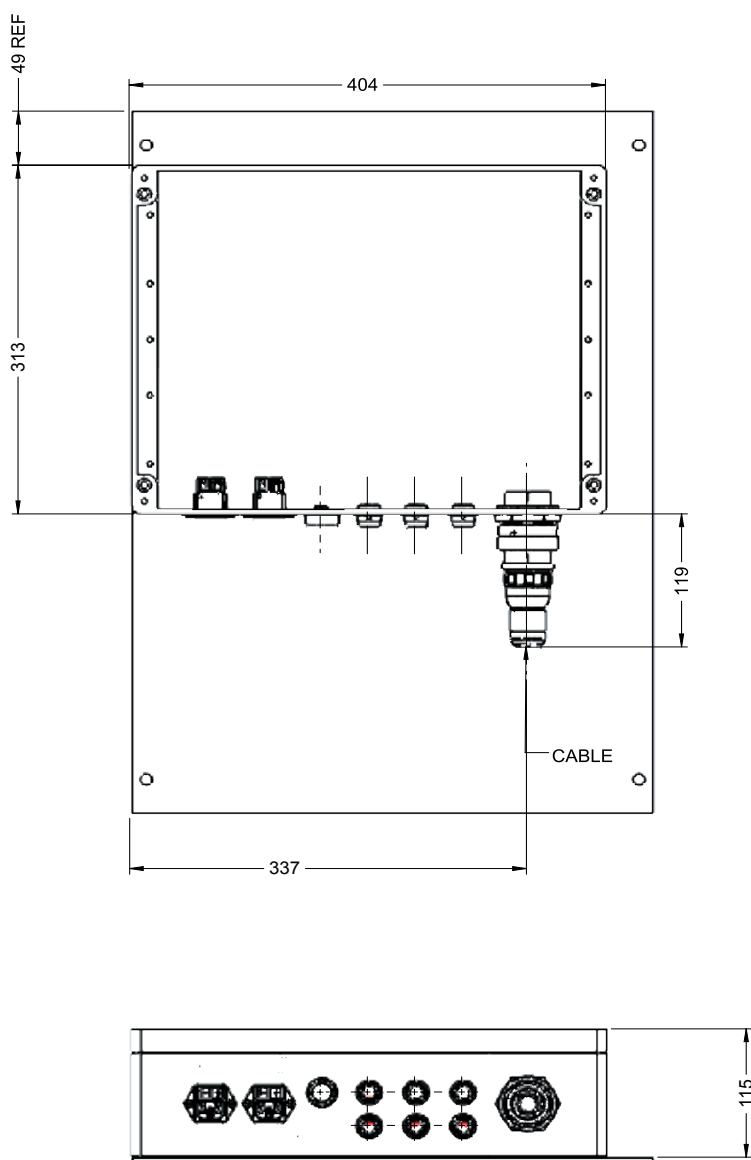
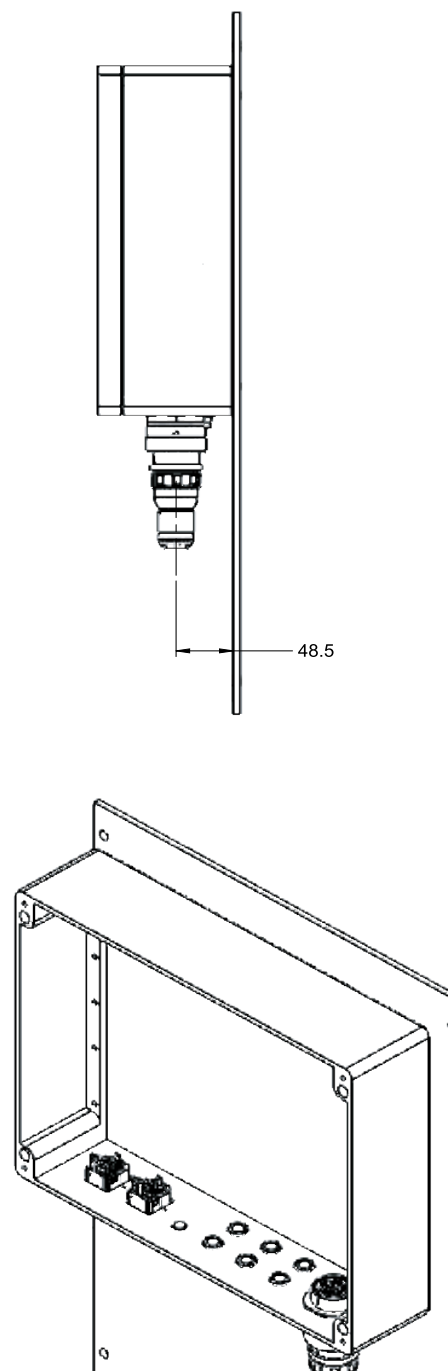
Optional GSM Monitoring & Control

A built-in GSM module for monitoring and control is also available enabling users to access diagnostic data via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

Optional GPS Antenna

For flashing fixed lens applications the station can now be flashed in synchronisation with a buoy channel or breakwater by fitting an antenna if these channels are already fitted with GPS.







Port Entry & Range Lights

Sectored Port Entry Light	64
High Intensity LED Range Light	68
Leading Lights	70

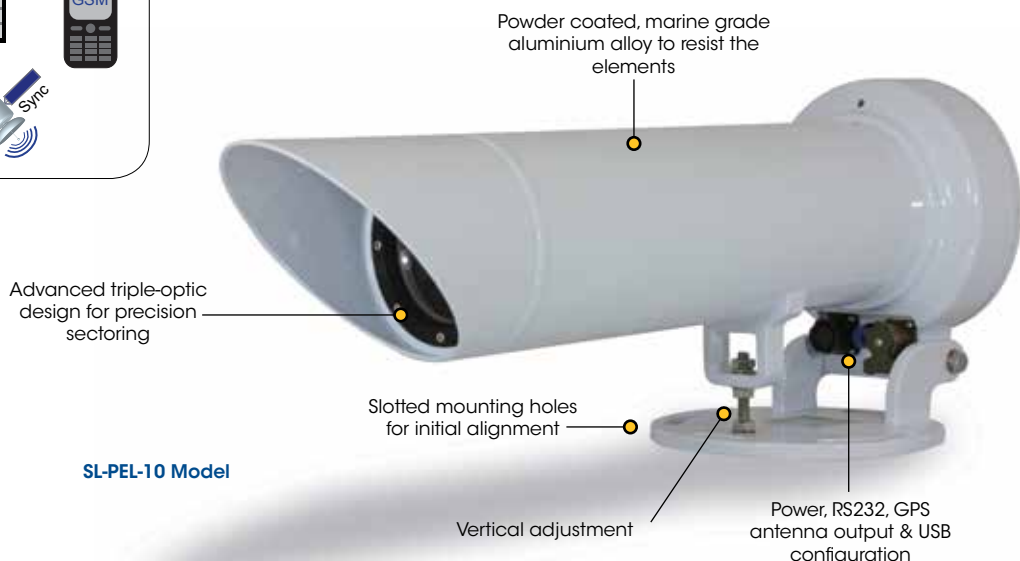
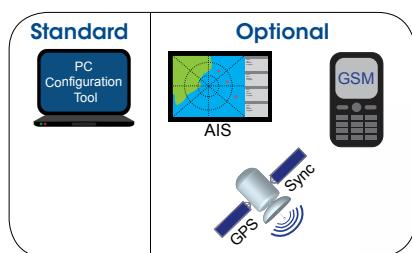


The Sealite range of LED Port Entry, Range and Leading Lights are typically installed to indicate a clear line of passage. Mariners use these aids to easily distinguish shipping channel entrances, safe passage through hazardous waters, and shoulder leads to assist with large vessel docking.

Lanterns are available in a range of LED colours to ensure clear distinction against confusing background lighting, as well as GPS and hard-wire flash synchronisation, GSM monitoring and control capabilities.

Sectored Port Entry Light

SL-PEL Series — 5° & 10° Models



SL-PEL-10 Model

The Sealite Advantage

- Low power consumption – typically uses 30 watts to achieve intensities that previously required 250 watts, making solar power possible
- LEDs can be configured for automatic night dimming, eliminating the need for moving filters
- LEDs can be individually flashed, reducing the need to employ moving oscillating boundaries
- AIS & GSM ready – comes ready for interfacing with AIS or GSM monitoring facilities
- At only 30 watts, the PEL can be run on a 12-24 volt DC supply without the need for large cables
- Ultra compact design - removing the need for split assemblies and realignment on difficult access sites
- GPS options enables reliable synchronisation with multiple units and other AtoNs
- Independent verification of conformity to IALA colour chromaticity co-ordinates and angles of uncertainties
- Lightweight for ease of installation
- Optional solar powered configurations available

The Sealite Port Entry Light (PEL) is a low-powered, high-intensity precision sector light, suitable for day or night-time use.

High Precision, Long Range LED Optics

Providing over 120,000cd (10° Model) and over 500,000cd (5° Model) at 30 watts, the Sealite PEL is extraordinarily efficient and ideal for solar power systems. The light is designed to suit high-precision sector applications and provides a measured changeover between colour sectors of typically one minute of arc.

Robust, with Ultra-Low Power Consumption

The Sealite PEL is extremely robust and of high-quality construction. The unit is built from CNC machined marine grade aluminium alloy, subject to 7-stage powder coating. The IP67 rated enclosure with anti-reflection coated achromatic lenses offers maximum resistance to weather.

AIS & GSM Ready

The Sealite PEL comes ready for interfacing with Sealite Type 1 or Type 3 AIS solutions, to allow port operators convenient remote monitoring of the unit via AIS message 6. In addition, important AIS message 21 information such as the name, type, and position of the navigation aid may be broadcast to mariners within the region.

GSM monitoring facilities also allow the light to be remotely monitored and controlled by maintenance personnel through their cellular phones or web portal.

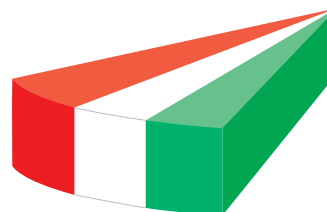
Sealite's PEL also has alarm relay contacts for remote monitoring to alert to fault conditions.



Anti-reflection coated achromatic lens to give maximum resistance to weather



Power, RS232, GPS antenna output and USB configuration



High-precision light sectoring





SL-PEL-5 Model

GPS Synchronisation

The Sealite PEL may be fitted with GPS, to enable reliable synchronisation when multiple units or Sealite GPS enabled lanterns are set to the same flash character. Furthermore, offset synchronisation can be achieved using multiple units with the same divisible total flash period, for better recognition.

Convenient PC Programming via USB

Up to 32 sector intensity steps may be selected by the user during programming to enable in-field adjustment to offset local background lighting. Over 256 standard & custom flash codes can also be programmed, in addition to advanced features such as multiple day/night intensity settings & switching between internal and external photo-cells. In-field programming is via a built in weather-proof port eliminating the need to open the unit and expose it to the elements.

Multiple configurations & maintenance-free

The Port Entry Light can be configured to suit many channel marking and leading line applications. There are two versions available with different overall beam widths. Independently controlled LED drivers provide balanced colour output across colours, or the white centre sector can be increased in intensity to simulate filament/filter combinations.

The Port Entry Light does not require focussing or re-lamping while in service, and there are no moving parts.



Easily program the PEL with Sealite's PC Configuration Tool



Sectored Port Entry Light

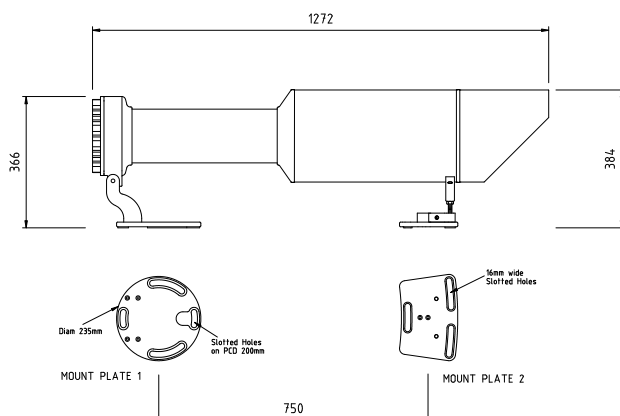
SL-PEL Series — 5° & 10° Models



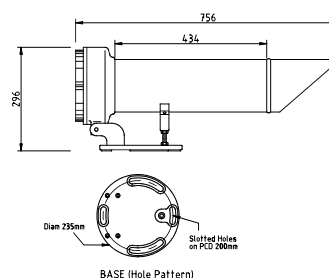
SPECIFICATIONS • *	5° Model SL-PEL-05	10° Model SL-PEL-10
Light Characteristics		
Light Source	LED	LED
Available Colours	Red, Green, White	Red, Green, White
Typical Maximum Peak Intensity (cd)	Red - 380,000 Green - 345,000 White - 505,000	Red - 95,000 Green - 85,000 White § - 120,000
Visible Range (NM)	AT @ 0.74: White sector, nighttime: up to 23.5 AT @ 0.85: White sector, nighttime: up to 37.5 @ 50% peak intensity: 0.85	AT @ 0.74: White sector, nighttime: up to 20 AT @ 0.85: White sector, nighttime: up to 31.3 @ 50% peak intensity: 1.7
Vertical Divergence (degrees)	5	10
Beam Width Overall (degrees)	0.5	1.0
Available Flash Characteristics	User adjustable	User adjustable
Intensity Adjustments	Fully adjustable	Fully adjustable
LED Life Expectancy (hours)	>50,000	>50,000
Electrical Characteristics		
Power (watts)	30 watts peak x character ratio	30 watts peak x character ratio
Voltage Range (VDC)	12-24	12-24
Nominal Voltage (VDC)	12.5	12.5
Temperature Range	-40 to 80°C	-40 to 80°C
Physical Characteristics		
Body Material	Marine grade aluminium alloy & carbon fibre, enamel baking	Marine grade aluminium alloy, subject to enamel baking
Lens Material	Anti-reflection coated glass	Anti-reflection coated glass
Mounting	4 x 12mm slotted holes equally spaced on 200mm PCD with additional front mounting plate consisting of 16mm slotted holes	4 x 12mm slotted holes equally spaced on 200mm PCD
Length (mm/inches)	1272 / 50	756 / 29¾
Mass (kg/lbs)	20 / 44	12 / 26½
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^
Environmental Factors		
Driving Rain	MIL-STD-810F Method 506.4	MIL-STD-810F Method 506.4
Low Temperature	MIL-STD-810G Method 502.5	MIL-STD-810G Method 502.5
High Temperature	MIL-STD-810G Method 501.5	MIL-STD-810G Method 501.5
Humidity	MIL-STD-810F Method 507.4	MIL-STD-810F Method 507.4
Salt Fog	MIL-STD-810F Method 509.4	MIL-STD-810F Method 509.4
Shock	IEC 60068-2-29 Test Eb	IEC 60068-2-29 Test Eb
Vibration	ASTM D4169-05 cl.12.3	ASTM D4169-05 cl.12.3
Certifications		
CE	EN61000-6-1: 2007. EN61000-6-3: 2007.	EN61000-6-1: 2007. EN61000-6-3: 2007.
IALA	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1
Waterproof	IP67. AS 60529-2004 (IEC 60529:2001)	IP67. AS 60529-2004 (IEC 60529:2001)
Intellectual Property		
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	3 years	3 years
Options Available	• AIS Type 1 or Type 3 • GSM Remote Monitoring & Control Capabilities • GPS Synchronisation • Variety of solar/battery configurations	• AIS Type 1 or Type 3 • GSM Remote Monitoring & Control Capabilities • GPS Synchronisation • Variety of solar/battery configurations

^ Refer to the Sealite website under the warranty section

5° SL-PEL-05 Model



10° SL-PEL-10 Model



• Specifications subject to change or variation without notice

* Subject to standard terms and conditions

§ While intensity can be balanced with coloured lantern performance



Examples of PEL Beam Configurations

- Synchronised LEDs are programmable in both intensity and character
- Length of beam indicates intensity
- Illustration shows SL-PEL-10 with 10 x 1° sectors
- The SL-PEL-05 variant produces 10 x 0.5° sectors

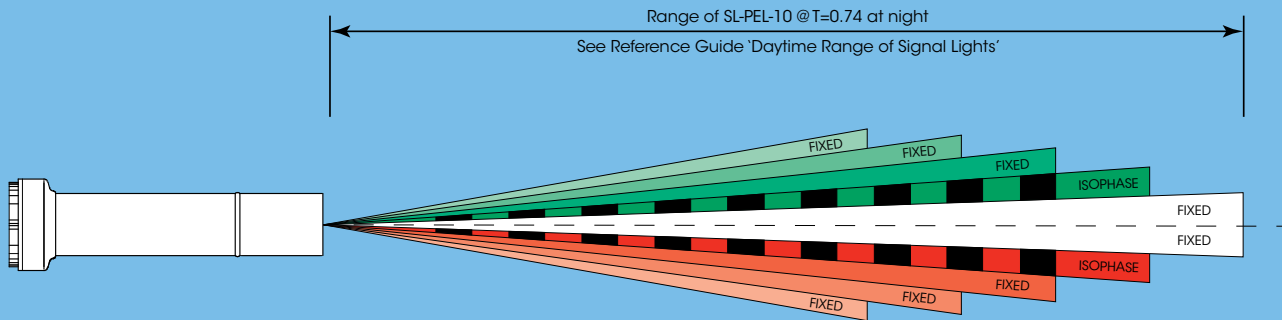


Diagram 1: Building Intensity Across Beam

- SL-PEL-10
- Boundary intensity reduction
- Automatic night dimming via PE cell (no moving filters)
- Flashing red & green boundary with no moving parts

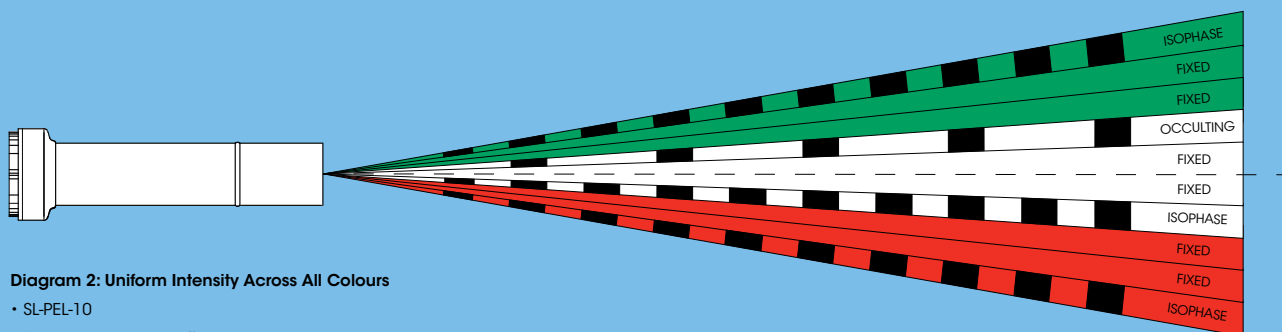


Diagram 2: Uniform Intensity Across All Colours

- SL-PEL-10
- Flashing boundary effect with no moving parts
- Full intensity across all sectors
- Automatic night dimming via PE cell (no moving filters)

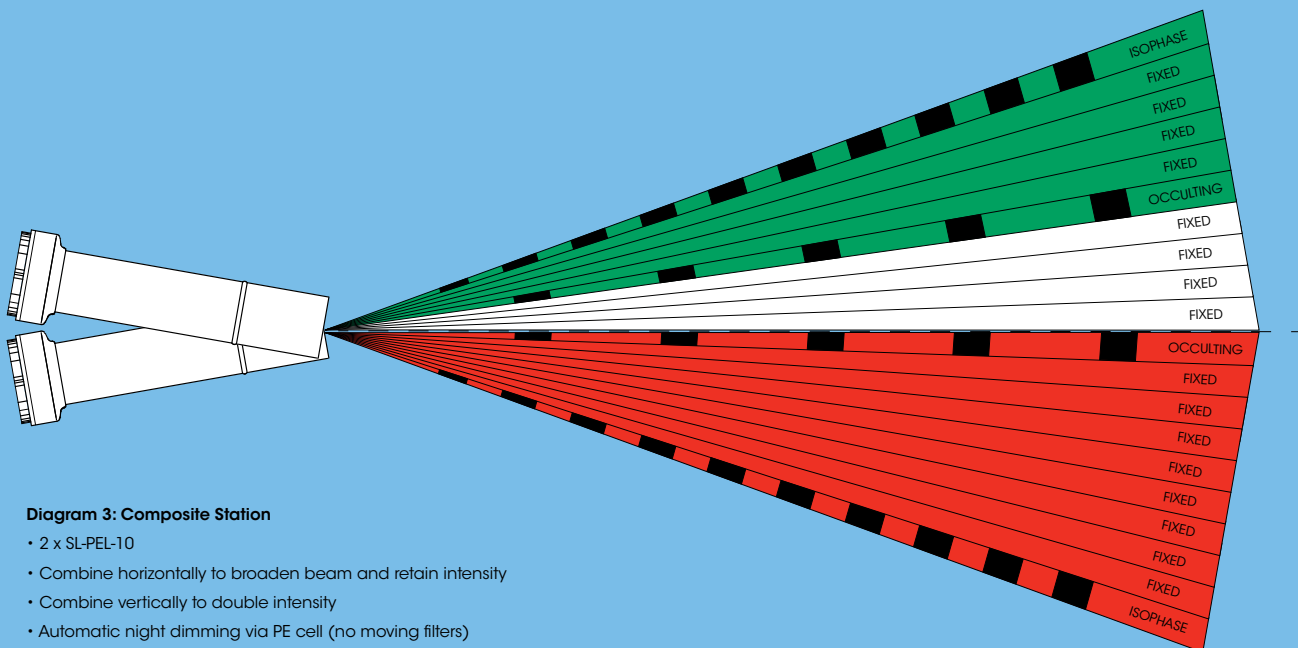
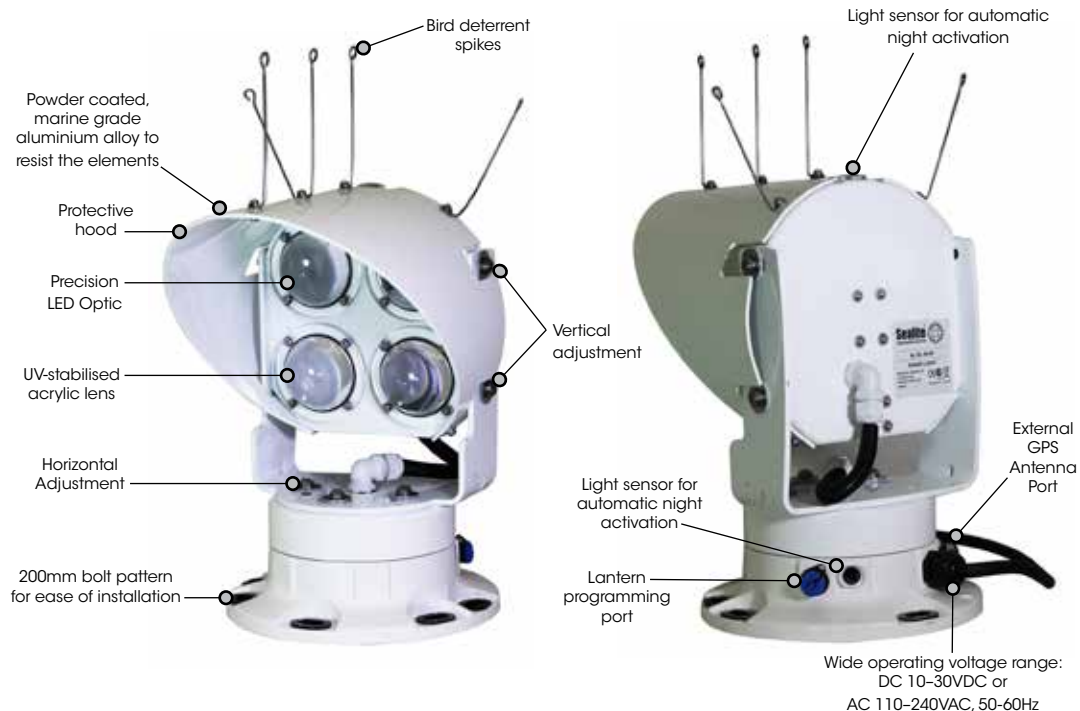
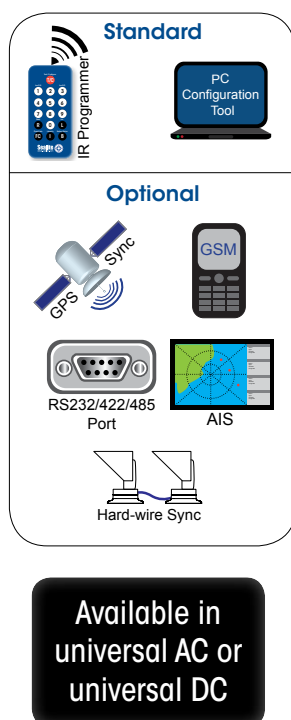


Diagram 3: Composite Station

- 2 x SL-PEL-10
- Combine horizontally to broaden beam and retain intensity
- Combine vertically to double intensity
- Automatic night dimming via PE cell (no moving filters)

High Intensity LED Range Light

SL-RL Series



The Sealite Advantage

- Over 424,000cd, white
- Over 5NM visible daytime range
- Over 23NM visible night-time range
- Wide operating voltage range: universal DC 10-30VDC or universal AC 110-240VAC
- PC or IR Programmer for setup, diagnostic & testing
- Internal or external photocell options
- User configurable day/night & twilight intensity settings
- Advanced remote monitoring features
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- Optional solar powered configurations available

The Sealite SL-RL Series is a long range, high intensity range light designed to give vessels clear night and/or daytime navigation. A daytime range of over 5NM and a night-time range in excess of 23NM can be achieved.

Long Range LED Optics with Ultra-Low Power Consumption

Providing over 424,000cd, the Sealite Range Light is highly efficient and ideal for solar power systems.

Robust Construction

The Sealite Range Light is extremely robust and of high-quality construction. The unit is built from CNC machined marine grade aluminium alloy, subject to 7-stage powder coating. The IP68 rated enclosure offers maximum resistance to weather.

Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including:

- Multiple intensity settings
- 310 flash settings including custom character
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

Optional GPS Synchronisation

For flash synchronisation of lanterns a GPS module may be fitted.

Multiple general purpose inputs and outputs allow for hardwire synchronisation and main/standby lantern configurations.

Optional GSM Monitoring & Control

The Range Light may also be fitted with a GSM module for monitoring and control - enabling users to access real-time diagnostic data and change light settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

Optional Type 1 or Type 3 AIS

The SL-RL Series Range Light is available with a class-leading integrated, low-powered Type 1 or Type 3 AIS. When fitted, the AIS is encapsulated within the body of the light to maintain the weatherproof integrity. VHF and GPS antennas to support AIS are fitted directly to the top surface of the lantern - offering significant advantages over competitor's products with externally wired GPS & VHF antennae and AIS systems.



Precision LED lenses



Horizontal adjustment and heavy duty, cast aluminium base

SPECIFICATIONS • *

SL-RL-04

Light Characteristics

Light Source
Available Colours
Maximum Luminous Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Power (W)
Circuit Protection
Nominal Voltage

Physical Characteristics

Body Material
Lens Material
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Depth (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Environmental Standards

Shock
Vibration
Ice Loading
Wind Exposure
Hail Impact
Humidity
Temperature Range

Certifications

CE & Electrical

IALA

Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

High efficiency LEDs
White as standard. Other colours available on request
Refer to table
3deg verticle & 3deg horizontal, white:
AT @ 0.74: 23.4NM night-time, 5NM daytime
AT @ 0.85: 37.3NM night-time, 6.3NM daytime
3° & 8° as standard. Other options available
3° as standard. Other options available
Up to 310 including 256 IALA recommended, & 1 custom
User adjustable
>100,000

VDC Model: up to 29W
Polarity protected
VDC Model: 10-30 VDC
VAC Model: up to 38W, 50VA
VAC Model: 110-240 VAC, 50-60Hz

7-stage powder-coated aluminium
UV-stabilised acrylic
Multiple LED optic
3 & 4 hole 200mm bolt pattern
332 / 13
226 / 9
317 / 12½
7.5 / 16.5
Up to 12 years

MIL-STD-202G Test Condition H, Method 213B 30G vertical and 35G horizontal shock
MIL-STD-202G, Test Condition B, Method 204D 5G in all axes
Rated to withstand 22kg/m²
Rated to withstand 140knots
Rated to withstand 25mm diameter ice ball impact at 20m/s
0 - 100%, condensing
-40 to 80°C

FCC Part 15 Rules & ICES-003.
EN61000-6-1: 2007 (IEC61000-6-1:2005) Part 6-1 Immunity.
EN61000-6-3: 2007 (IEC61000-6-3: 2006) Electromagnetic compatibility (EMC) - Part 6-3 Emission.
IEC61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test Level 4.
IEC61000-4-3: 2010 Ed 3.2 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity.
IEC61000-4-6: 2008 Ed3. Electromagnetic compatibility (EMC) - Part 4-6 Immunity.
Signal colours compliant to IALA E-200-1
Ambient light levels compliant to IALA Guideline No. 1038
ISO9001:2008
IP68

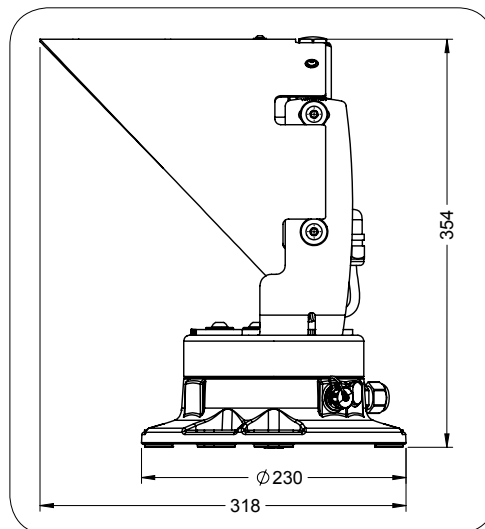
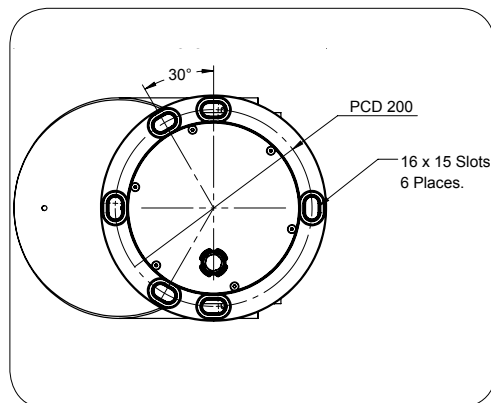
SEALITE® is a registered trademark of Sealite Pty Ltd
3 years

- GPS Synchronisation
- AIS Type 1 or Type 3
- GSM Monitoring & Control System (External for AC, Internal for DC)
- RS232/422/485 Port
- Hard-wire Synchronisation
- Variety of solar/battery configurations
- Multiple divergence lens
- Bird deterrent spikes

Optical Performance

Maximum luminous intensity (cd)

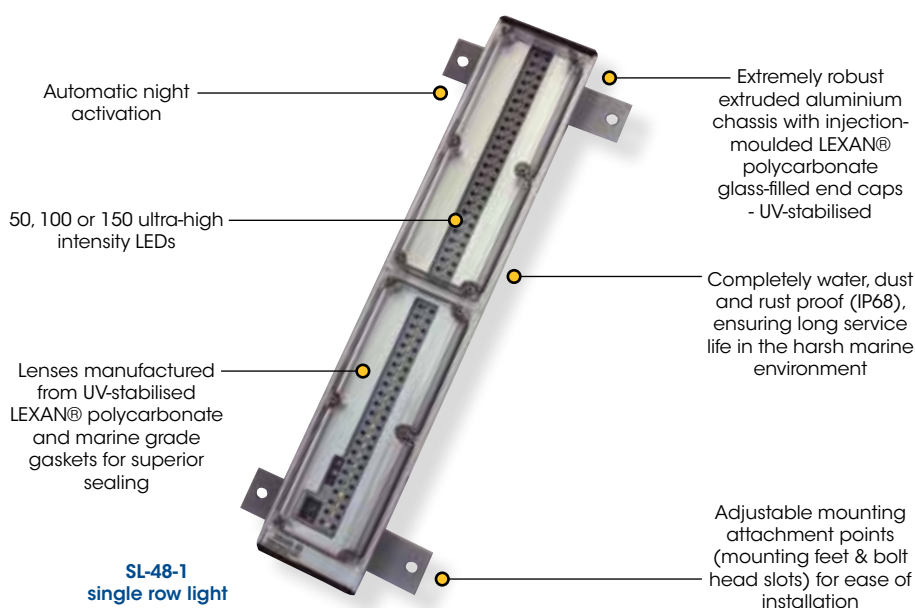
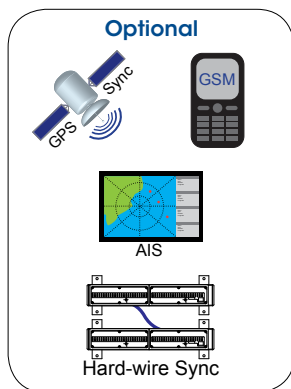
Divergence (deg)	RED	GREEN	WHITE
3(V) x 3(H)	170,000	150,000	424,000
3(V) x 8(H)	60,000	53,000	140,000



- Specifications subject to change or variation without notice
- * Subject to standard terms and conditions
- † Intensity setting subject to solar availability

2ft Leading Light

SL-48



The Sealite Advantage

- Directional 2ft LED leading light
- 7.5 - 13+ nautical mile range
- Robust design ensures a complete seal suitable for extreme weather conditions
- 256 user-adjustable flash characteristics
- Adjustable intensity settings
- Operates in conjunction with existing or purpose-built power supplies
- Optional GPS Synchronisation & GSM Remote Monitoring
- IP68 waterproof
- Optional solar powered configurations available

The SL-48 is a 2ft LED leading light designed to offer vessels clear night navigation and is a convenient replacement for conventional lead lighting.

The unit is available in 3 configurations utilising either single, dual, or triple row LED circuits as a light source.

The advanced circuitry of the SL-48 series comprise of a DC/DC converter, current control and automatic night activation.

The innovative, robust design of the SL-48 leading light ensures years of reliable, maintenance-free service. The unit is completely water, dust & rust proof, and vandal resistant.

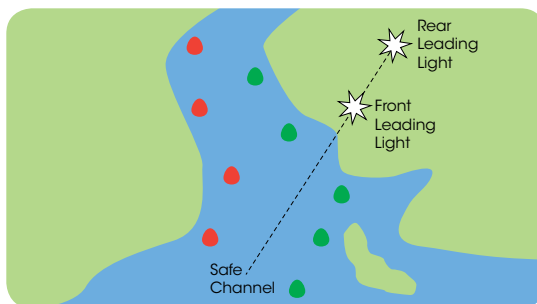
The SL-48 body is made from extruded aluminium with injection-moulded UV-stabilised LEXAN® polycarbonate glass-filled end caps for superior strength and durability. Single, dual and triple row versions have the same body width.

Individual injection-moulded LEXAN® polycarbonate lenses are fitted to the aluminium body with a marine grade gasket ensuring a superior sealing (IP68 waterproof).

The aluminium housing features 2x channels/slots which run along the entire length of the base of the SL-48. This multi-mount design allows the 2x mounting brackets/feet to be positioned as required for complete installation flexibility.

The unit operates from a standard 8 - 20 volt power supply, and may be run from a mains powered system or with solar and battery backup in the event of power failure.

The SL-48 Leading Light is also available with hard-wire or GPS Synchronisation and GSM Remote Monitoring and Control capabilities. When leading lights flash in synchronisation, they can be clearly distinguished from other nav aids and confusing background lighting.

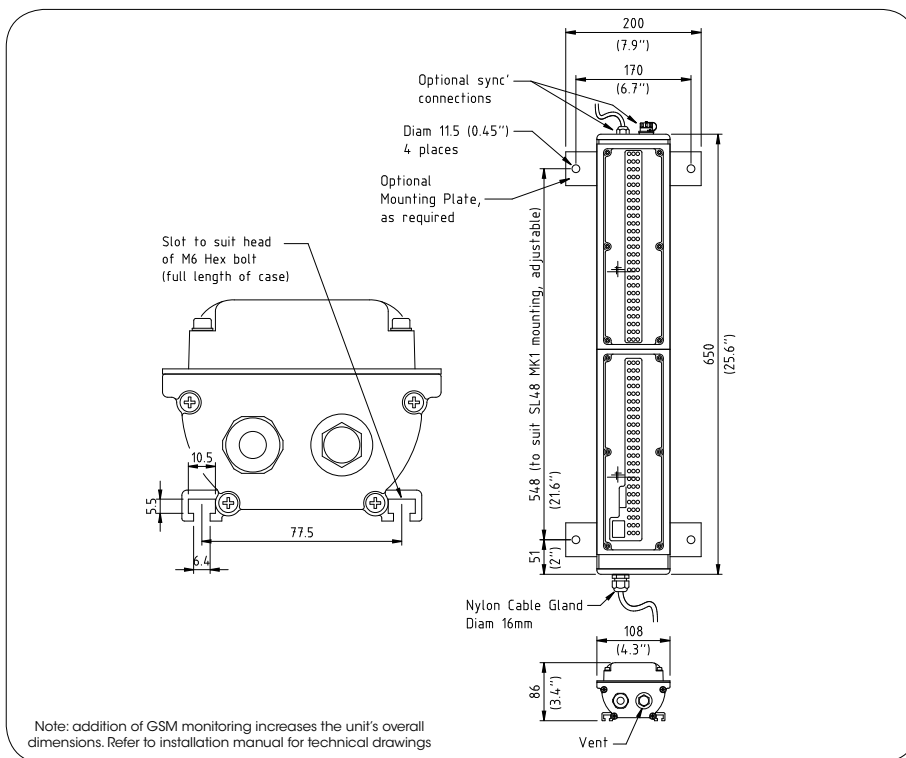




Ease of flash setting selection (where required) via internal rotary switches



Brisbane, Australia

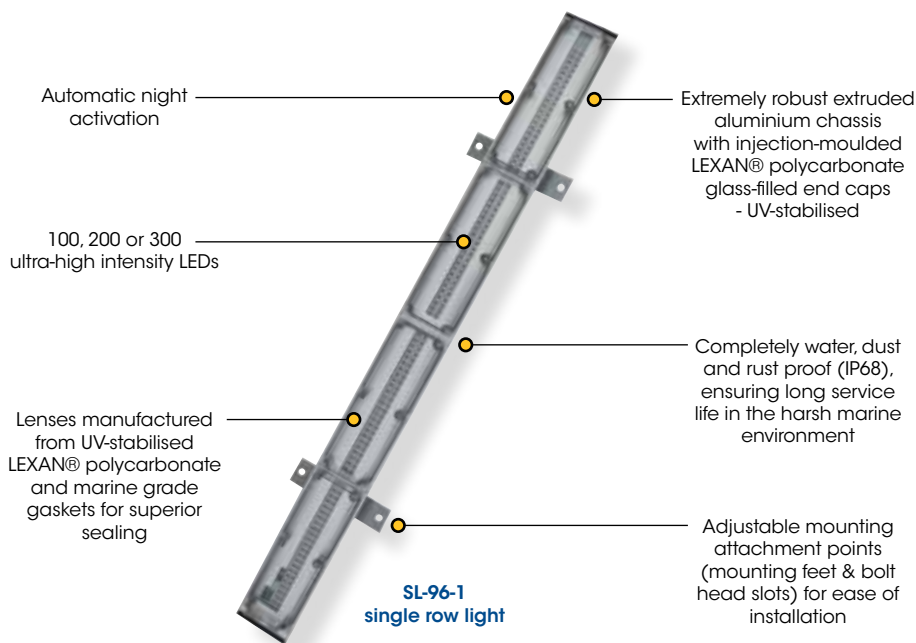
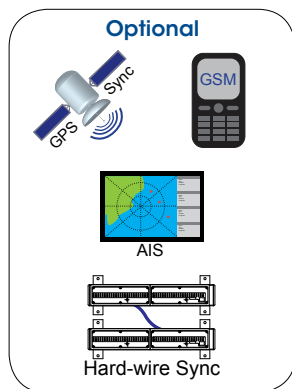


SPECIFICATIONS * *	SL-48-1	SL-48-2	SL-48-3
	Single Row	Dual Row	Triple Row
Light Characteristics			
Light Source	50 ultra-high intensity LEDs	100 ultra-high intensity LEDs	150 ultra-high intensity LEDs
Available Colours	Red, Green, White, Yellow, Blue	Red, Green, White, Yellow, Blue	Red, Green, White, Yellow, Blue
Typical Maximum Intensity (cd)†	Red - 1540 Green - 2220 White - 2220 Yellow - 1320 Blue - 430	Red - 3070 Green - 4160 White - 4020 Yellow - 2570 Blue - 770	Red - 4560 Green - 6300 White - 5680 Yellow - 3820 Blue - 1140
Visible Range (NM)	8	9	10
Horizontal Output (degrees)	15	15	15
Vertical Divergence (degrees)	15	15	15
Available Flash Characteristics	Up to 256 IALA recommended (user adjustable)	Up to 256 IALA recommended (user adjustable)	Up to 256 IALA recommended (user adjustable)
Intensity Adjustments	User adjustable	User adjustable	User adjustable
LED Life Expectancy (hours)	>100,000	>100,000	>100,000
Electrical Characteristics			
Current Draw (mA)	Red, Yellow - 510 Blue, Green, White - 430	Red, Yellow - 1020 Blue, Green, White - 860	Red, Yellow - 1530 Blue, Green, White - 1290
Circuit Protection	Polarity protected	Polarity protected	Polarity protected
Nominal Voltage (V)	12	12	12
Temperature Range	-40 to 80°C	-40 to 80°C	-40 to 80°C
Physical Characteristics			
Body Material	Extruded aluminium chassis with LEXAN® polycarbonate glass-filled end caps - UV-stabilised	Extruded aluminium chassis with LEXAN® polycarbonate glass-filled end caps - UV-stabilised	Extruded aluminium chassis with LEXAN® polycarbonate glass-filled end caps - UV-stabilised
Lens Material	LEXAN® Polycarbonate - UV-stabilised	LEXAN® Polycarbonate - UV-stabilised	LEXAN® Polycarbonate - UV-stabilised
Mounting	Slots to suit head of M6 Hex bolt (full length of light body) & 4 x 11.5mm mounting holes (mounting feet)	Slots to suit head of M6 Hex bolt (full length of light body) & 4 x 11.5mm mounting holes (mounting feet)	Slots to suit head of M6 Hex bolt (full length of light body) & 4 x 11.5mm mounting holes (mounting feet)
Height (mm/inches)	86 / 3 ² / ₅	86 / 3 ² / ₅	86 / 3 ² / ₅
Width (mm/inches)	200 / 7 ⁷ / ₈ (including feet)	200 / 7 ⁷ / ₈ (including feet)	200 / 7 ⁷ / ₈ (including feet)
Length (mm/inches)	650 / 25 ² / ₃	650 / 25 ² / ₃	650 / 25 ² / ₃
Mass (kg/lbs)	3.6 / 7 ⁷ / ₈	3.7 / 8 ¹ / ₈	3.8 / 8 ¹ / ₈
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^	Up to 12 years ^
Certifications			
CE	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:1997. EN61000-6-1:1997
IALA	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO 9001:2008	ISO 9001:2008	ISO 9001:2008
Waterproof	IP68	IP68	IP68
Intellectual Property			
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	3 years	3 years	3 years
Options Available	- Power supplies/systems - Hard-wire Synchronisation - GPS Synchronisation - GSM Remote Monitoring & Control Capabilities - ALS Remote Monitoring - Additional cable	- Power supplies/systems - Hard-wire Synchronisation - GPS Synchronisation - GSM Remote Monitoring & Control Capabilities - ALS Remote Monitoring - Additional cable	- Power supplies/systems - Hard-wire Synchronisation - GPS Synchronisation - GSM Remote Monitoring & Control Capabilities - ALS Remote Monitoring - Additional cable

^ Refer to the Sealite website under the warranty section

4ft Leading Light

SL-96



The Sealite Advantage

- Directional 4ft LED leading light
- 8 - 14.5+ nautical mile range
- Robust design ensures a complete seal suitable for extreme weather conditions
- 256 user-adjustable flash characteristics
- Adjustable intensity settings
- Operates in conjunction with existing or purpose-built power supplies
- Optional GPS Synchronisation & GSM Remote Monitoring
- IP68 waterproof
- Optional solar powered configurations available

The SL-96 is a 4ft LED leading light offering greater visibility to the smaller SL-48 series.

The unit is available in 3 configurations utilising either single, dual, or triple row LED circuits as a light source.

The advanced circuitry of the SL-96 series comprise of a DC/DC converter, current control and automatic night activation.

The innovative, robust design of the SL-96 leading light ensures years of reliable, maintenance-free service. The unit is completely water, dust & rust proof, and vandal resistant.

The SL-96 body is made from extruded aluminium with injection-moulded UV-stabilised LEXAN® polycarbonate glass-filled end caps for superior strength and durability. Single, dual and triple row versions have the same body width.

Individual injection-moulded LEXAN® polycarbonate lenses are fitted to the aluminium body with a marine grade gasket ensuring a superior sealing (IP68 waterproof).

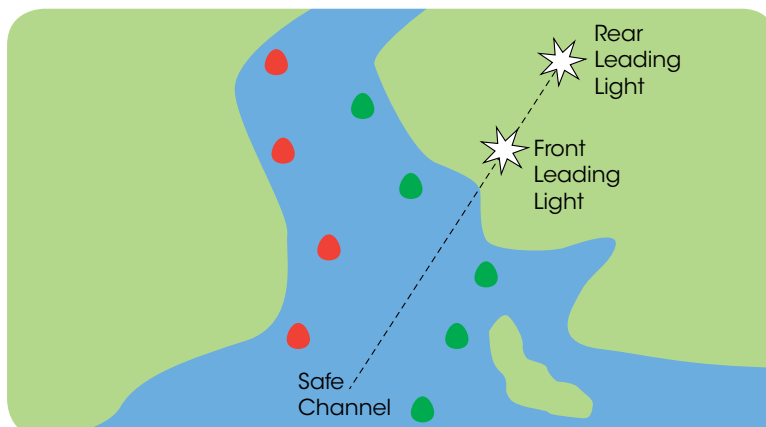
The aluminium housing features 2x channels/slots which run along the entire length of the base of the SL-96. This multi-mount design allows the 2x mounting brackets/feet to be positioned as required for complete installation flexibility.

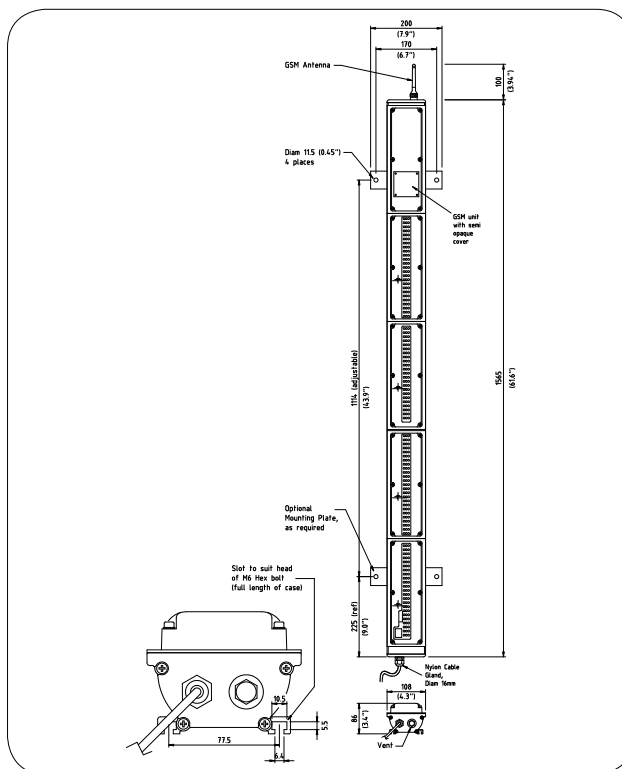
The unit operates from a standard 8 - 20 volt power supply, and may be run from a mains powered system or with solar and battery backup in the event of power failure.

The SL-96 Leading Light is also available with hard-wire or GPS Synchronisation and GSM Remote Monitoring and Control capabilities. When leading lights flash in synchronisation, they can be clearly distinguished from other nav aids and confusing background lighting.



Ease of flash setting selection (where required) via internal rotary switches





SPECIFICATIONS * *		SL-96-1	SL-96-2	SL-96-3
	Single Row	Dual Row	Triple Row	
Light Characteristics Light Source Available Colours Typical Maximum Intensity (cd)† Visible Range (NM) Horizontal Output (degrees) Vertical Divergence (degrees) Available Flash Characteristics Intensity Adjustments LED Life Expectancy (hours)	100 ultra-high intensity LEDs Red, Green, White, Yellow, Blue Red - 3070 Green - 4160 White - 4050 Yellow - 2570 Blue - 620 9 15 15 Up to 256 IALA recommended (user adjustable) User adjustable >100,000	200 ultra-high intensity LEDs Red, Green, White, Yellow, Blue Red - 5680 Green - 8050 White - 7950 Yellow - 5080 Blue - 1200 10 15 15 Up to 256 IALA recommended (user adjustable) User adjustable >100,000	300 ultra-high intensity LEDs Red, Green, White, Yellow, Blue Red - 8580 Green - 12050 White - 11900 Yellow - 7500 Blue - 1790 11 15 15 Up to 256 IALA recommended (user adjustable) User adjustable >100,000	
	Electrical Characteristics			
	Current Draw (mA)	Red, Yellow - 1020 Blue, Green, White - 860 Polarity protected 12 -40 to 80°C	Red, Yellow - 2040 Blue, Green, White - 1720 Polarity protected 12 -40 to 80°C	Red, Yellow - 3060 Blue, Green, White - 2580 Polarity protected 12 -40 to 80°C
	Circuit Protection			
	Nominal Voltage (V)			
	Temperature Range			
	Physical Characteristics			
	Body Material	Extruded aluminium chassis with LEXAN® polycarbonate glass-filled end caps - UV-stabilised LEXAN® Polycarbonate - UV-stabilised Slots to suit head of M6 Hex bolt (full length of light body) & 4 x 11.5mm mounting holes (mounting feet) 86 / 3 ² / ₅ 200 / 7 ⁷ / ₈ (including feet) 1260 / 49 ² / ₃ 7.4 / 16 ¹ / ₃ Up to 12 years ^	Extruded aluminium chassis with LEXAN® polycarbonate glass-filled end caps - UV-stabilised LEXAN® Polycarbonate - UV-stabilised Slots to suit head of M6 Hex bolt (full length of light body) & 4 x 11.5mm mounting holes (mounting feet) 86 / 3 ² / ₅ 200 / 7 ⁷ / ₈ (including feet) 1260 / 49 ² / ₃ 7.6 / 16 ³ / ₄ Up to 12 years ^	Extruded aluminium chassis with LEXAN® polycarbonate glass-filled end caps - UV-stabilised LEXAN® Polycarbonate - UV-stabilised Slots to suit head of M6 Hex bolt (full length of light body) & 4 x 11.5mm mounting holes (mounting feet) 86 / 3 ² / ₅ 200 / 7 ⁷ / ₈ (including feet) 1260 / 49 ² / ₃ 7.8 / 17 ¹ / ₅ Up to 12 years ^
	Lens Material			
	Mounting			
Height (mm/inches)				
Width (mm/inches)				
Length (mm/inches)				
Mass (kg/lbs)				
Product Life Expectancy				
Certifications				
CE	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:1997. EN61000-6-1:1997	
IALA	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1	
Quality Assurance	ISO 9001:2008	ISO 9001:2008	ISO 9001:2008	
Waterproof	IP68	IP68	IP68	
Intellectual Property				
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd 3 years	SEALITE® is a registered trademark of Sealite Pty Ltd 3 years	SEALITE® is a registered trademark of Sealite Pty Ltd 3 years	
Warranty * *				
Options Available				
	• Power supplies/systems • Hard-wire Synchronisation • GPS Synchronisation • GSM Remote Monitoring & Control Capabilities • AIS Remote Monitoring • Additional cable	• Power supplies/systems • Hard-wire Synchronisation • GPS Synchronisation • GSM Remote Monitoring & Control Capabilities • AIS Remote Monitoring • Additional cable	• Power supplies/systems • Hard-wire Synchronisation • GPS Synchronisation • GSM Remote Monitoring & Control Capabilities • AIS Remote Monitoring • Additional cable	



Barge Lights

Barge Lights: 2NM 76

Barge Lights: 3NM 78



Barge &
Bridge Lights

Area Lighting

Monitoring &
Control Systems

Marine Buoys

Mooring Systems
& Accessories

Power Systems

Reference
Guides

The Sealite BargeSafe™ range of solar and battery powered LED barge lights are UL 1104 and COLREG-72 compliant, and are a testament to Sealite's continued in-house innovative collaboration of LED and lens technology to maximise light intensity, sectoring and uniformity.

Sealite's skilled optics engineering facility has developed a range of barge lighting products designed to meet international standards for various installations.

2NM Solar Barge Light

BargeSafe™ Solar 2NM



Optional Peep-Light
available

Meets UL 1104
Applicable Sections for
a 2NM Barge Light &
COLREG-72 Compliant



The Sealite Advantage

- 2NM visible range
- Certified to UL 1104 & COLREG-72 photometrics
- Ultra low power consumption
- Precise light sectoring achieved via Sealite's world-class lens
- Advanced LED technology
- Completely self-contained solar/battery light
- User-replaceable battery in sealed compartment
- NiMH battery for long service life & wide temperature range
- ON/OFF storage switch
- Installs in seconds
- Robust
- IP68 waterproof

The Sealite BargeSafe™ Solar 2NM is a solar-powered barge light designed to meet UL 1104 and COLREG-72 standards.

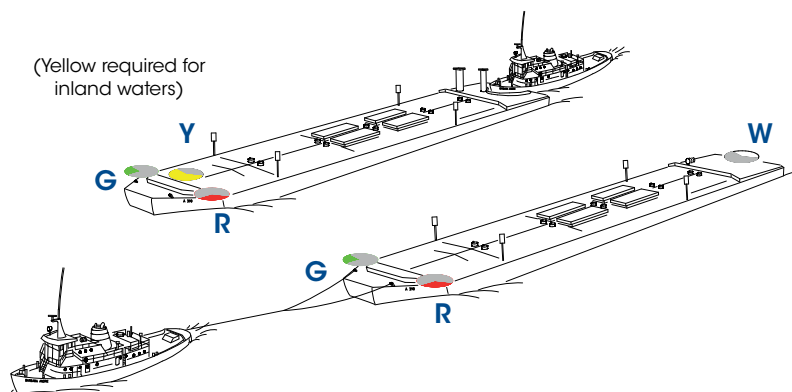
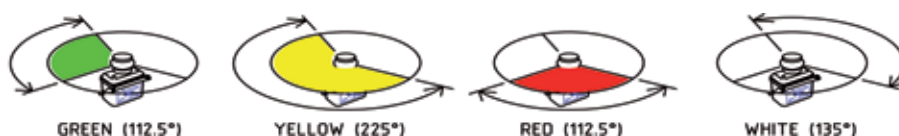
The LED barge light sets a new standard and incorporates a host of innovative features designed to make the unit extremely user-friendly.

The world-class LED lens is designed and manufactured by Sealite and achieves precise intensity and sectoring requirements from a single LED light source.

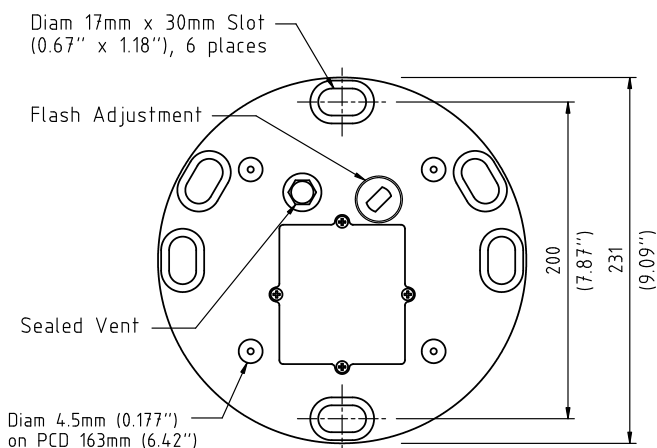
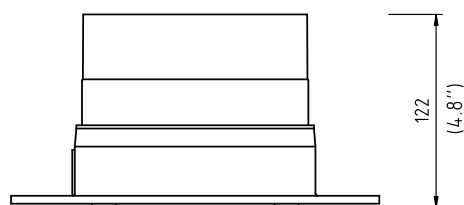
Made from tough, durable polycarbonate and using the latest high intensity LED and a uniquely designed lens the BargeSafe™ Solar 2NM light has an incredibly low power consumption. The light can be installed in minutes, requires no operator intervention and has a permanent ON/OFF switch for easy storage.

During daylight hours the solar module will charge the battery and the light will automatically begin operation at dusk – once the ambient light threshold drops sufficiently.

The sealed battery compartment allows the battery to be replaced after years of service.



May be suitable on vessels of 12 meters or more in length, but less than 50 meters in length.



SPECIFICATIONS*

BargeSafe™ Solar 2NM

Light Characteristics

Light Source
Available Colours
Visible Range (NM)

1 ultra-high intensity LED
Red, Green, White, Yellow
AT @ 0.74: 2+
AT @ 0.85: 2.3+
>100,000

LED Life Expectancy (hours)

Electrical Characteristics

Circuit Protection
Nominal Voltage (V)
Autonomy (days)
Temperature Range

Integrated
3.6
>20
-40 to 80°C

Solar Characteristics

Solar Module Type
Output (watts)

Multicrystalline
1.4

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)

High grade NiMH
8
3.6

Physical Characteristics

Body Material
Lens Material
Lens Diameter (mm/inches)
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

LEXAN® Polycarbonate - UV-stabilised
LEXAN® Polycarbonate - UV-stabilised
150 / 5 7/8
Internal optics
3 & 4 hole 200mm bolt pattern
122 / 4 7/8
231 / 9 1/8
1 / 2 1/4
Up to 12 years ^

Certifications

Approvals
IALA
Quality Assurance
Waterproof

UL 1104, COLREG-72
Signal colours compliant to IALA E-200-1
ISO 9001:2008
IP68

Intellectual Property

Trademarks

SEALITE® is a registered trademark of Sealite Pty Ltd
BargeSafe™ is a trademark of Sealite Pty Ltd

Warranty*

Options Available

- 16Ah battery
- 50mm pole mount adapter plate



* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
^ Refer to the Sealite website under the warranty section

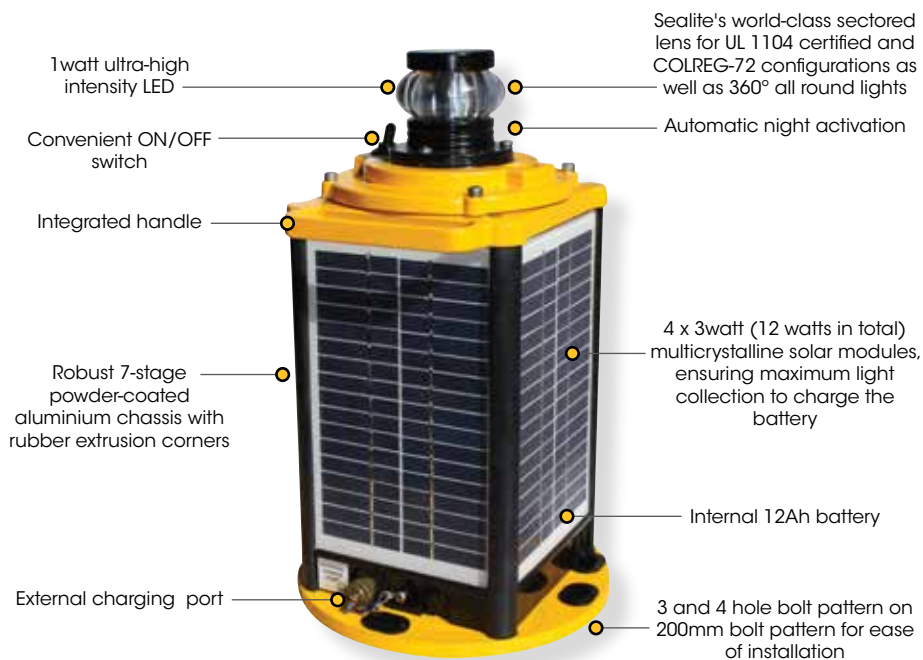
3NM Solar Barge Light

BargeSafe™ Solar 3NM



Available with
optional Peep-Light

**Meets UL 1104
Applicable Sections for
a 3NM Barge Light &
COLREG-72 Compliant**



The Sealite Advantage

- 3NM visible range
- Certified to UL 1104 & COLREG-72 photometrics
- All components user-replaceable in the unlikely event of damage
- Complete self-contained solar/battery light
- LED technology
- Precise light sectoring achieved via Sealite's world-class in-house designed lens
- Robust
- Installs in seconds
- Low power consumption
- IP67 waterproof

The Sealite BargeSafe™ Solar 3NM solar-powered LED barge light is certified to UL 1104 and COLREG-72 photometrics, and is completely self-contained with solar modules and battery.

The LED barge light is one of the most advanced in its class, and incorporates a host of innovative features designed to make the unit extremely user-friendly.

The world-class LED lens is designed by Sealite and achieves precise intensity and sectoring requirements from a single LED light source. This design helps achieve a lower operational current compared with alternative LED barge lights – making the unit ultra efficient.

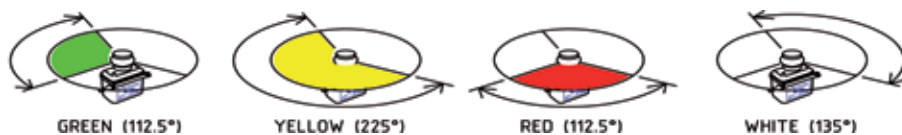
The unit is made from cast aluminium and subject to 7-stage powder-coating coloured for easy identification of light output colour, and rubber extrusions – offering enormous impact resistance and long operational life. Four (4) premium-grade solar modules are integrated into the assembly, and mounted to collect sunlight at all angles.

All Round 360° Light Configuration

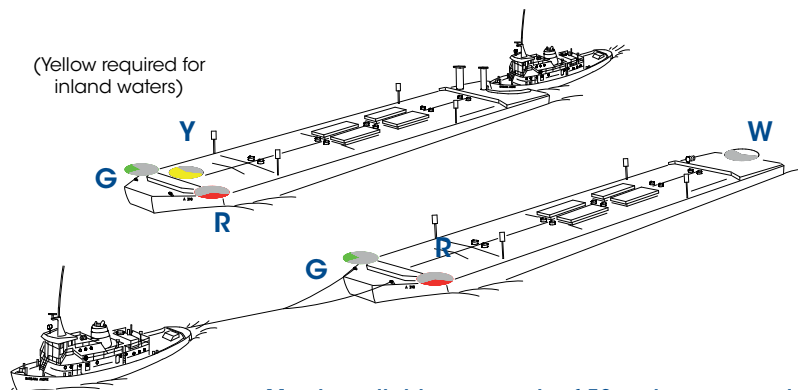
The Sealite BargeSafe™ Solar 3NM is also available as a 360 degree all round light with either flashing or steady-on flash characteristics. Please note, this configuration is only available when fitted with a 12 volt battery.

Optional Peep-Light

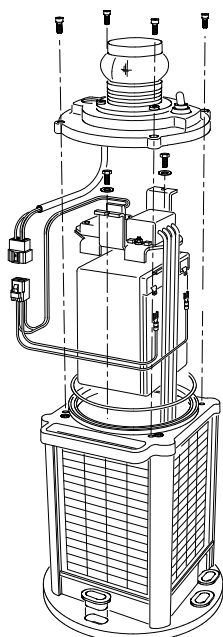
Sealite BargeSafe™ Solar 3NM is available with an optional Peep-Light for the SL-BLSY-3-S light to assist in the navigation of inland waterways. This blue steady-on light is used to guide mariners when manoeuvring the barge into dock and to help determine the swing of the bow when viewed from the stern. The Peep-Light comes standard with 12V rechargeable battery connection.



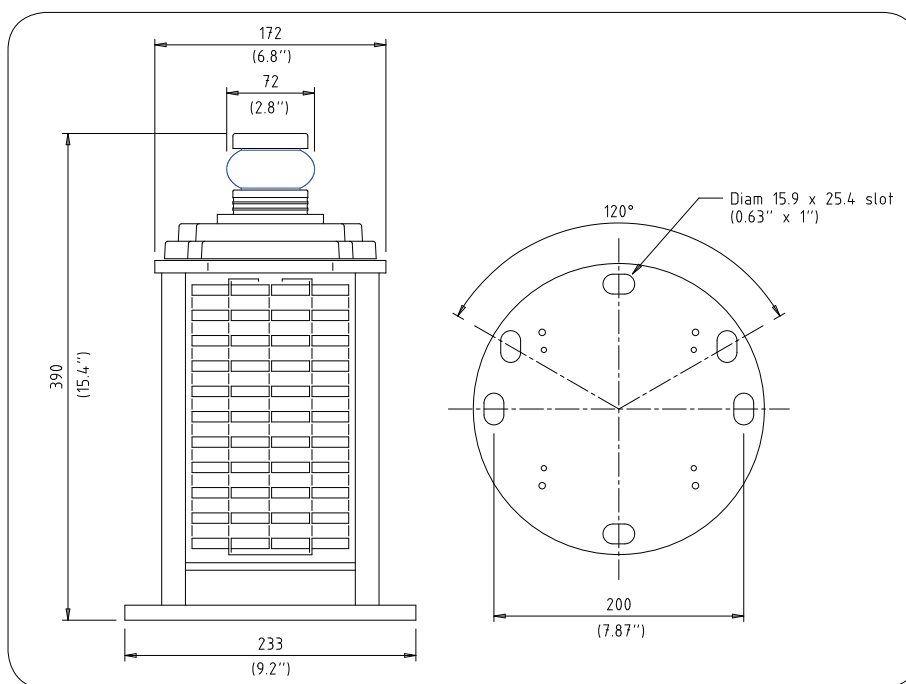
(Yellow required for inland waters)



May be suitable on vessels of 50 meters or more in length.



Convenient user-replaceable battery



SPECIFICATIONS * * BargeSafe™ Solar 3NM

Light Characteristics

Light Source
Available Colours
Maximum Available Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)

Flash Characteristics
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Nominal Voltage (V)
Temperature Range

Solar Characteristics

Solar Module Type
Output (watts)
Charging Regulation

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)
Autonomy (days)

Physical Characteristics

Battery Housing

Lens Material
Lens Mount & Top
Lens Design

Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

Approvals
IALA
Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Using 1 watt ultra-high intensity LED (sectored configuration).
Red, Green, White, Yellow as per UL 1104 & COLREG-72
As per UL 1104 & COLREG-72
AT @ 0.74: >3NM as per UL 1104 & COLREG-72
AT @ 0.85: >3.5NM as per UL 1104 & COLREG-72
Red - 112.5° Green - 112.5° White - 135° Yellow - 225° as per
UL 1104 & COLREG-72.
As per UL 1104 & COLREG-72 (steady-on & flashing)
>100,000

Minimal
Integrated
12
-40 to 80°C

Multicrystalline
12 (4 x 3 watt)
Microprocessor controlled

SLA (Sealed Lead Acid)
12
12
>24

7-stage powder-coated aluminium chassis with UV-stabilised rubber
corners & gaskets
Acrylic
Anodised aluminium
Internal single LED cavity with individual sectoring compartments to meet
all UL 1104 & COLREG-72 angles for light output. Internal 3 x LED cavities to
suit 360° all round light configuration
3 & 4 hole 200mm bolt pattern
390 / 15²/₅
233 / 9¹/₅
9.2 / 20¹/₄
Up to 12 years ^

UL 1104. COLREG-72
Signal colours compliant to IALA E-200-1
ISO 9001:2008
IP67

SEALITE® is a registered trademark of Sealite Pty Ltd
BargeSafe™ is a trademark of Sealite Pty Ltd
1 year



* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
^ Refer to the Sealite website under the warranty section

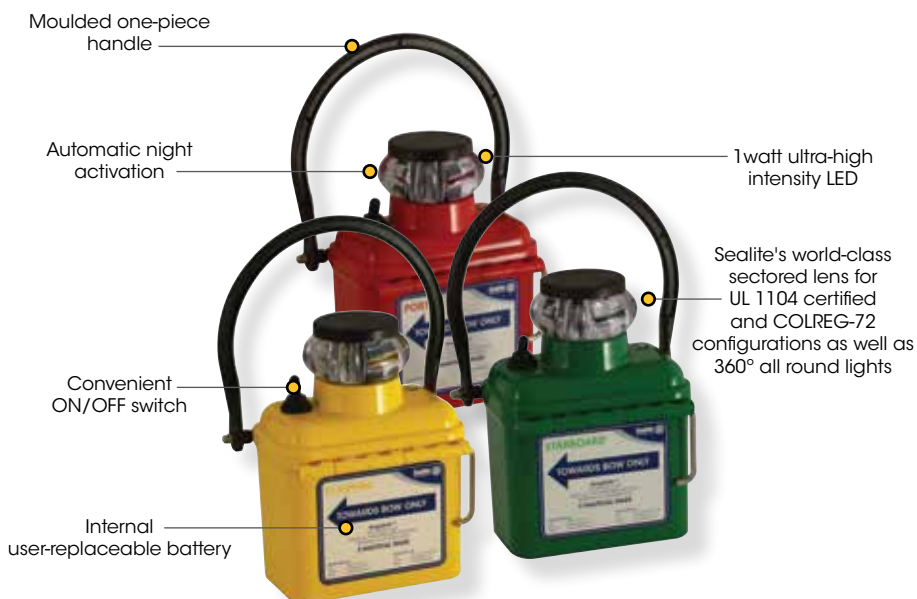
3NM Barge Light

BargeSafe™ 3NM



Available with
optional Peep-Light

**Meets UL 1104
Applicable Sections for
a 3NM Barge Light &
COLREG-72 Compliant**



The Sealite Advantage

- Certified to UL 1104 & COLREG-72 photometrics
- LED technology
- Precise light sectoring achieved via Sealite's world-class in-house designed lens
- 3NM visible range
- Robust
- Installs in seconds
- Low power consumption
- Lightweight
- IP67 waterproof

The Sealite BargeSafe™ 3NM battery powered LED barge light is certified to UL 1104 and COLREG-72 compliant with >3NM visible range.

The LED barge light is one of the most advanced in its class, and incorporates a host of innovative features designed to make the unit extremely user-friendly.

The world-class LED lens is designed and manufactured by Sealite and achieves precise intensity and sectoring requirements from a single LED light source. This design helps achieve a lower operational current compared with alternative LED barge lights – making the unit ultra efficient and offering a battery run time of up to 45 nights.

The barge light casing and handle are injection-moulded from UV-stabilised polycarbonate – offering enormous impact resistance and long operational life. The casings are coloured for easy identification of light output colour.

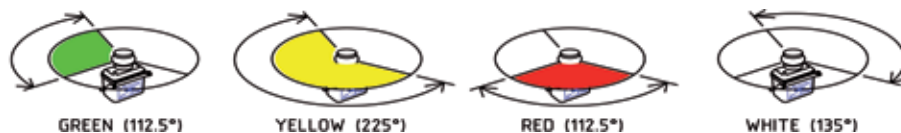
Two strong magnets in base provides strong fixing in position to the barge deck.

All Round 360° Light Configuration

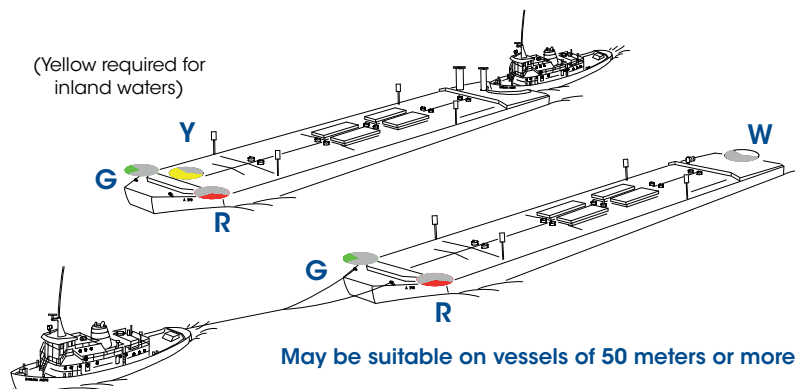
The Sealite BargeSafe™ 3NM is also available as a 360 degree all round light with either flashing or steady-on flash characteristics.

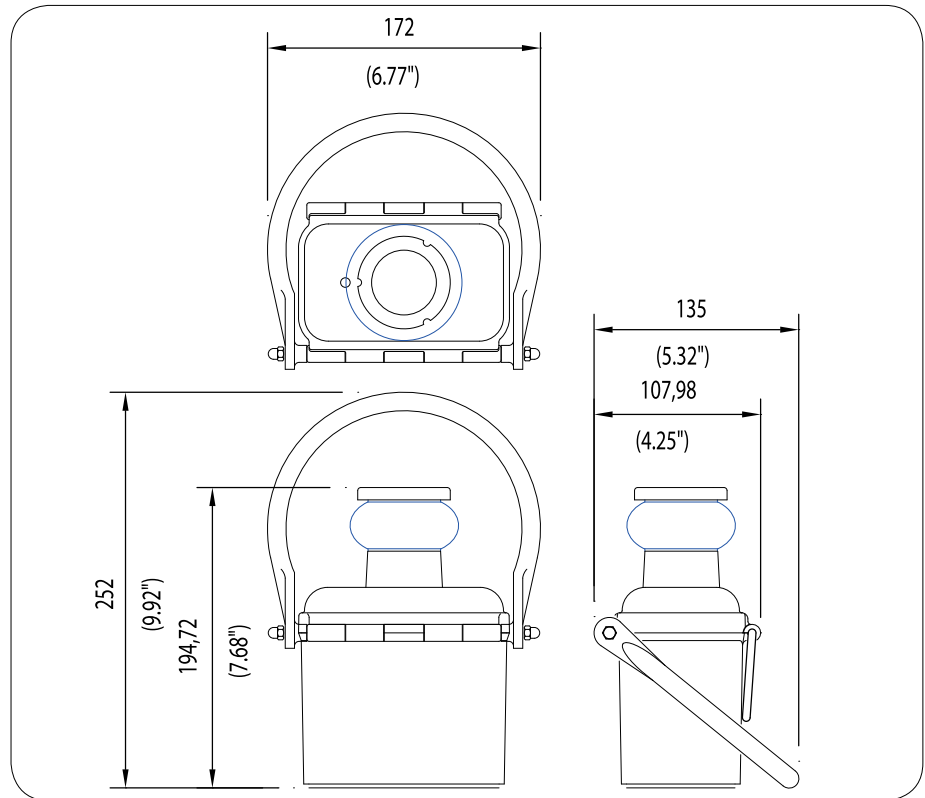
Optional Peep-Light

Sealite BargeSafe™ 3NM is available with an optional Peep-Light for the SL-BLY-3 light to assist in the navigation of inland waterways. This blue steady-on light is used to guide mariners when manoeuvring the barge into dock and to help determine the swing of the bow when viewed from the stern. The Peep-Light comes standard with 12V rechargeable battery connection.



(Yellow required for inland waters)





SPECIFICATIONS * *

BargeSafe™ 3NM

Light Characteristics

Light Source
Available Colours
Maximum Available Intensity (cd)†
Visible Range (NM)

Horizontal Output (degrees)

Flash Characteristics

LED Life Expectancy (hours)

Electrical Characteristics

Circuit Protection
Working Voltage Range (V)
Temperature Range

Power Supply

Battery Type
Battery Capacity (Ah)
Nominal Voltage (V)
Autonomy (days)

Physical Characteristics

Battery Housing
Lens Material
Lens Mount & Top
Lens Design

Mounting

Height (mm/inches)

Width (mm/inches)

Depth (mm/inches)

Mass (kg/lbs)

Product Life Expectancy

Certifications

Approvals
IALA
Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Using 1 watt ultra-high intensity LED (sectored configuration).
Red, Green, White, Yellow as per UL 1104 & COLREG-72
As per UL 1104 & COLREG-72

AT @ 0.74: >3NM as per UL 1104 & COLREG-72

AT @ 0.85: >3.5NM as per UL 1104 & COLREG-72

Red - 112.5° Green - 112.5° White - 135° Yellow - 225° as per
UL 1104 & COLREG-72.

As per UL 1104 & COLREG-72 (steady-on & flashing). All round flashing RED
>100,000

Integrated

4 - 16

-40 to 80°C

Air Alkaline (recommended)

45Ah (Air Alkaline)

6V (Air Alkaline)

>45

LEXAN® Polycarbonate - UV-stabilised

Acrylic

Anodised aluminium

Internal single LED cavity with individual sectoring compartments to meet
all UL 1104 & COLREG-72 angles for light output. Internal 3 x LED cavities to
suit 360° all round light configuration

4 x magnets

195 / 7²/₃

172 / 6⁷/₈

108 / 4¹/₄

1.5 / 3¹/₃

Up to 12 years ^

UL 1104, COLREG-72

Signal colours compliant to IALA E-200-1

ISO 9001:2008

IP67

SEALITE® is a registered trademark of Sealite Pty Ltd

BargeSafe™ is a trademark of Sealite Pty Ltd

1 year



* Specifications subject to change or variation without notice

* Subject to standard terms and conditions

† Intensity setting subject to solar availability

^ Refer to the Sealite website under the warranty section

BargeSafe™ Series

Order Codes



ORDER CODES: BargeSafe™ Solar 2NM

SL-BLR-2-8AHR	BargeSafe™ Solar 2NM LED Barge Sidelight Port RED, 112.5° sector, 2NM as per UL 1104 applicable sections COLREG-72 compliant
SL-BLG-2-8AHR	BargeSafe™ Solar 2NM LED Barge Sidelight Starboard GREEN, 112.5° sector, 2NM as per UL 1104 applicable sections. COLREG-72 compliant
SL-BLW-2-8AHR	BargeSafe™ Solar 2NM LED Barge Light Stern WHITE, 135° sector, 2NM as per UL 1104 applicable sections COLREG-72 compliant
SL-BLR-2-16AHR	BargeSafe™ Solar 2NM LED Barge Sidelight Port RED, 112.5° sector, 2NM as per UL 1104 applicable sections COLREG-72 compliant c/w 16Ah battery
SL-BLG-2-16AHR	BargeSafe™ Solar 2NM LED Barge Sidelight Starboard GREEN, 112.5° sector, 2NM as per UL 1104 applicable sections COLREG-72 compliant c/w 16Ah battery
SL-BLW-2-16AHR	BargeSafe™ Solar 2NM LED Barge Light Stern WHITE, 135° sector, 2NM as per UL 1104 applicable sections COLREG-72 compliant c/w 16Ah battery



ORDER CODES: BargeSafe™ Solar 3NM

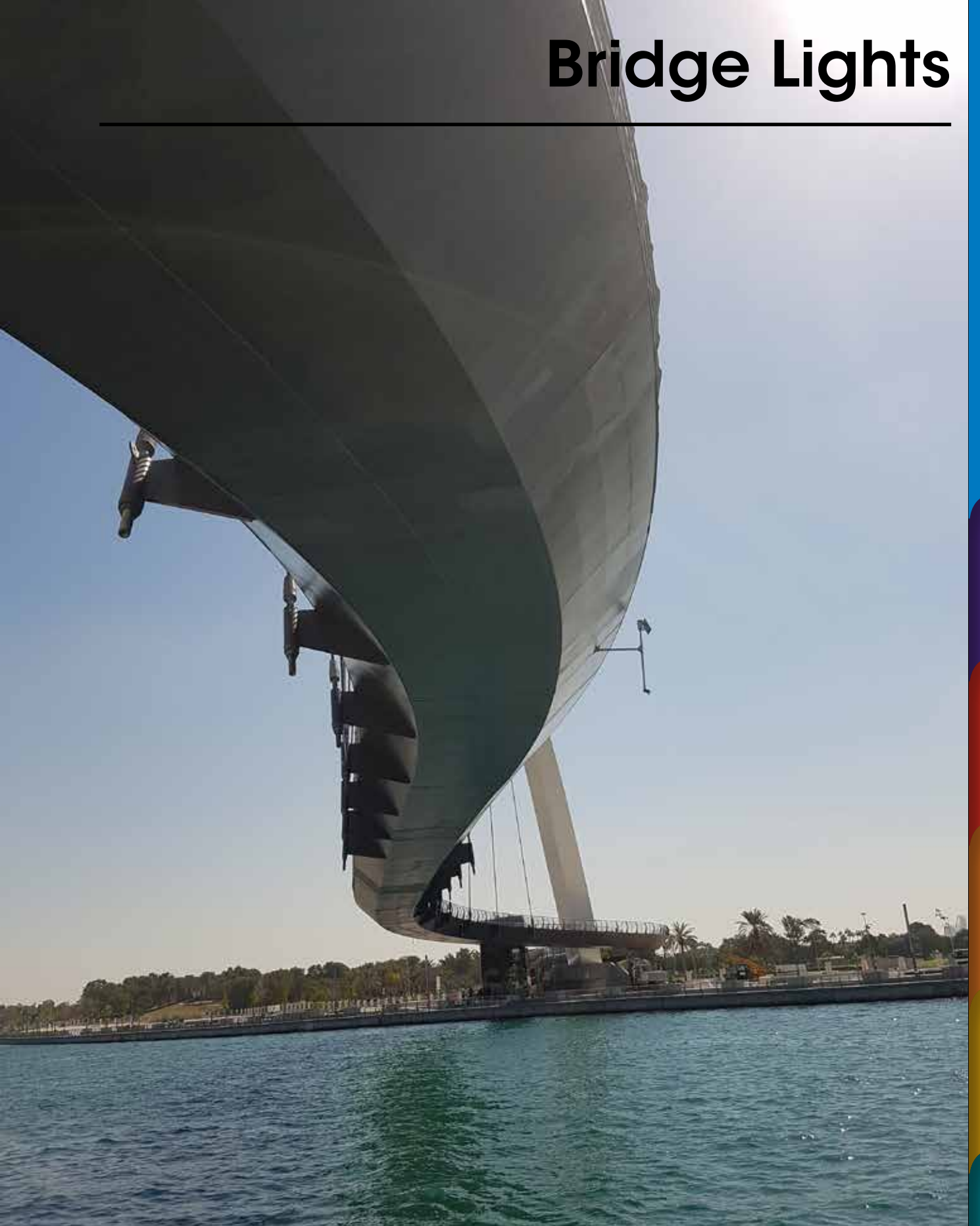
SL-BLSR-3	BargeSafe™ Solar 3NM LED Barge Sidelight Port RED, 112.5° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant
SL-BLSG-3	BargeSafe™ Solar 3NM LED Barge Sidelight Starboard GREEN, 112.5° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant
SL-BLSW-3	BargeSafe™ Solar 3NM Barge Stern/Towing WHITE, 135° sector, 3NM LED as per UL 1104 applicable sections COLREG-72 compliant
SL-BLSY-3	BargeSafe™ Solar 3NM LED Barge Light YELLOW, 225° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant
SL-BLSY-3-BC	BargeSafe™ Solar 3NM LED Barge Light YELLOW, 225° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant c/w bulgin connector for Peep-Light attachment (Peep-Light NOT included)
SL-BLS-3-360	All Round 360° BargeSafe™ Solar Light Configuration



ORDER CODES: BargeSafe™ 3NM

SL-BLR-3	BargeSafe™ 3NM LED Barge Sidelight Port RED, 112.5° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant Excludes battery
SL-BLG-3	BargeSafe™ 3NM LED Barge Sidelight Starboard GREEN, 112.5° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant Excludes battery
SL-BLW-3	BargeSafe™ 3NM LED Barge Stern/Towing WHITE, 135° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant Excludes battery
SL-BLY-3	BargeSafe™ 3NM LED Barge Light YELLOW, 225° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant Excludes battery
SL-BLY-3-BC	BargeSafe™ 3NM LED Barge Light YELLOW, 225° sector, 3NM as per UL 1104 applicable sections COLREG-72 compliant c/w bulgin connector for Peep-Light attachment (Peep-Light NOT included) Excludes battery
SL-BL-3-360	All Round 360° BargeSafe™ Light Configuration

Bridge Lights



Barge &
Bridge Lights

Area Lighting

Monitoring &
Control Systems

Marine Buoys

Mooring Systems
& Accessories

Power Systems

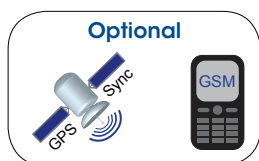
Reference
Guides

Sealite Bridge Lights are installed worldwide to enhance the safety of bridges and structures extending over navigable waterways. The Sealite range of LED bridge lights caters for those with existing electrical supplies, and also offer solar powered kits for bridges with no existing electrical supplies. This feature also allows for those wishing to transfer over to a more eco-friendly and cost effective bridge lighting option.

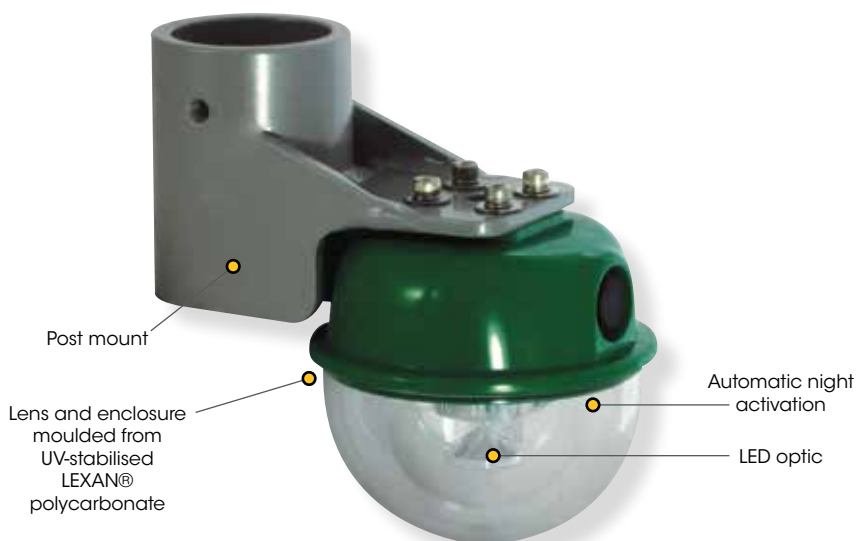
Bridge Light

SL-BR Series

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66



Also available with optional solar/battery systems and optional mounting accessories



The Sealite Advantage

- Up to 4NM visible range
- Able to operate in conjunction with existing power supplies
- Optional solar/battery systems available
- Optional universal AC: will accept between 110-240VAC
- Optional mounting accessories



Sectored Bridge Light

The SL-BR Series are an LED Bridge Light specifically designed to clearly mark bridges and structures extending over navigable waterways and is used extensively throughout the USA. The SL-BR Series has been designed to offer superior visibility with up to 4NM visible range, and operates in conjunction with existing power supplies.

The light is available as a 180° sectored red model or 360° green model and comes fixed-on as standard. The fixtures are also available with a range of factory-set flash characteristics and sectoring requirements to suit local regulations.

The light is available in two configurations, nominal 12VDC or universal AC (110-240VAC).

The SL-BR series can also be supplied as a complete solar/battery system to comply with requirements of regional governing bodies such as the U.S. Coast Guard, or the IALA Recommendations for the marking of fixed bridges over navigable waters.

Sealite has a range of other short, medium and long range marine lanterns that may also be used to comply with bridge lighting requirements.

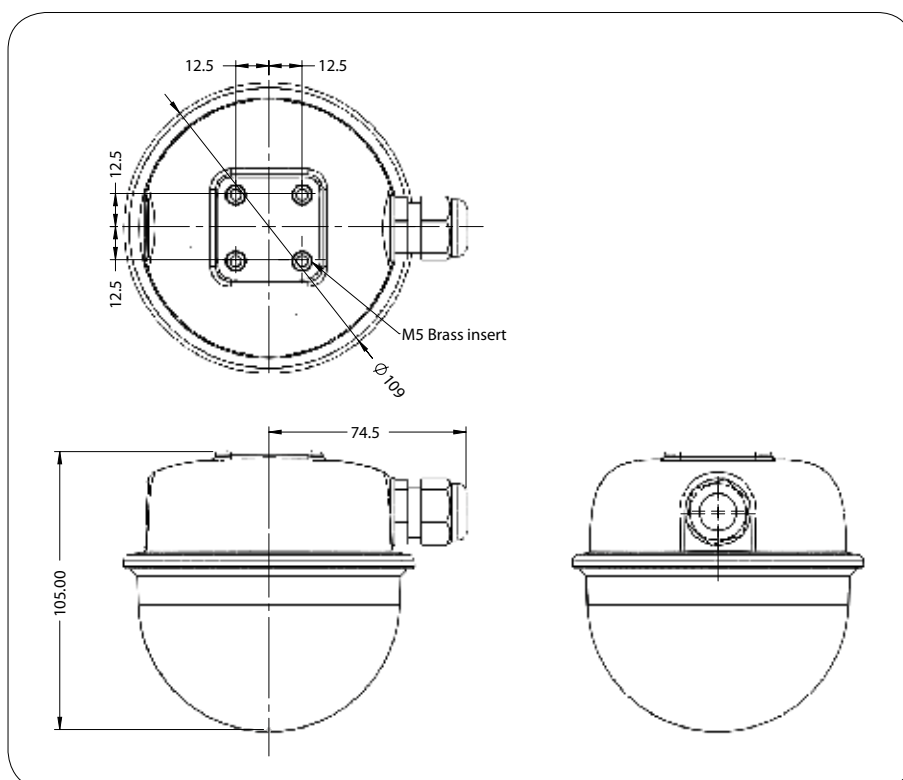


SL-70 180° model for bridge fenders & abutments



SL-155 Series bridge lights





SPECIFICATIONS* *	SL-BR SERIES (2NM)	SL-BR4 SERIES (4NM)
Light Characteristics		
Light Source	LED	LED
Available Colours	Red, Green, other colours available on request	Red, Green, other colours available on request
Visible Range (NM)	AT @ 0.74: 2 (nominal) AT @ 0.85: 2.3	AT @ 0.74: 4 (nominal) AT @ 0.85: 4.6
Horizontal Output (degrees)	360 or 180	360 or 180
Vertical Divergence (degrees)	9	9
Available Flash Characteristics	Steady-on (standard). Other factory set flash patterns available on request	Steady-on (standard). Other factory set flash patterns available on request
LED Life Expectancy (hours)	>100,000	>100,000
Electrical Characteristics		
Current Draw (mA)	VDC Model: 40 @ 12 VDC	VDC Model: 80 @ 12 VDC
Circuit Protection	Integrated	Integrated
Nominal Voltage (V)	VDC Model: 12-48 VDC VAC Model: 110-240 VAC	VDC Model: 12-48 VDC VAC Model: 110-240 VAC
Temperature Range	-40 to 80°C	-40 to 80°C
Physical Characteristics		
Body Material	LEXAN® Polycarbonate – UV-stabilised	LEXAN® Polycarbonate – UV-stabilised
Lens Material	LEXAN® Polycarbonate – UV-stabilised	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	107 / 4 1/4	107 / 4 1/4
Lens Design	LED optic	LED optic
Mounting	50mm OD pole	50mm OD pole
Height (mm/inches)	105 / 4	105 / 4
Width (mm/inches)	109 / 4 1/4	109 / 4 1/4
Mass (kg/lbs)	1.2 / 2 5/8	1.2 / 2 5/8
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^
Certifications		
CE	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:1997. EN61000-6-1:1997
IALA	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1
USCG	33 CFR Part 66	33 CFR Part 66
Quality Assurance	ISO 9001:2008	ISO 9001:2008
Waterproof	IP67	IP67
Intellectual Property		
Patents	US Pat. No. 6,667,582. AU Pat. No. 778,918	US Pat. No. 6,667,582. AU Pat. No. 778,918
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	3 years	3 years
Options Available	• Mounting assemblies • Solar/battery systems • Light sectoring • Additional cable • GPS Synchronisation (DC Model) • GSM Monitoring and Control System (DC Model)	• Mounting assemblies • Solar/battery systems • Light sectoring • Additional cable • GPS Synchronisation (DC Model) • GSM Monitoring and Control System (DC Model)



* Specifications subject to change or variation without notice
 * Subject to standard terms and conditions
 ^ Refer to the Sealite website under the warranty section

Solar Bridge Lighting Kit

SL-BRK



Sector Bridge Light

Typical Night Marking of Bridge Structures Generally Include:

- Red or green lights to mark the navigable limits of the channel in accordance with the IALA Maritime Buoyage System located on the bridge piers, under the span, or on buoy and beacons in the water
- A 'best point of passage' indicated by a white light(s) located under the span and exhibiting a safe water mark character

Sealite's SL-BRK is solar Bridge Lighting Kit specifically designed to clearly mark bridges and structures extending over navigable waterways, and is used extensively throughout the USA.

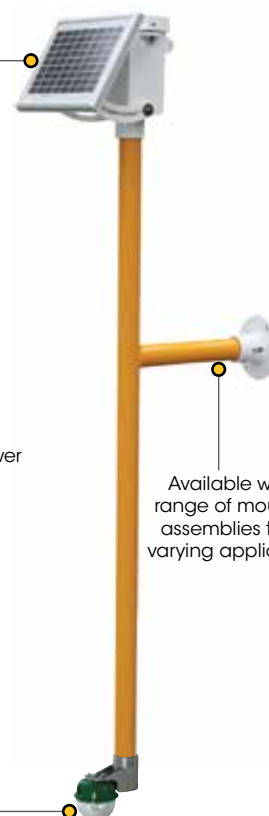
The SL-BRK features a large solar power supply (10watt solar module with 7.5Ah SLA battery), positioned at the top of the assembly to maximise solar collection.

The lantern is steady-on as standard but is available with a range of other factory-set flash characteristics and sectoring requirements to suit local regulations.

The optional long extension arm between the light and the power supply ensures clear visibility of the AtoN from mariners below.

PLEASE NOTE: the extension arm is not included with the standard SL-BRK bridge lighting kit.

Large 10watt solar module & 7.5Ah battery



Available with a range of mounting assemblies to suit varying applications

LED light

Sealite has a range of other marine lanterns that may also be used to comply with bridge lighting requirements.

Bridge lights are typically steady-on, however a choice of over 256 IALA recommended flash patterns are available as standard.

The lights are configured as complete solar/battery systems to comply with requirements of regional governing bodies such as the U.S. Coast Guard, or the IALA Recommendations for the marking of fixed bridges over navigable waters.

In U.S. waters for instance, the Coast Guard prescribes certain combinations of fixed lights for bridges and structures extending over waterways. In general, red lights are used to mark piers and supports, and green lights mark the centreline of the navigable channel through a fixed bridge.

If there is more than one channel through the bridge, the preferred route is marked by three white lights placed vertically. Red lights are also used on some lift bridges to indicate the lift is closed, and green lights to indicate that the lift is open to vessel traffic.

Double-opening, swing bridges are lighted with three lanterns on top of the span structure so that when viewed from an approaching vessel the swing span when closed will display three red lights, and when open for navigation will display two green lights.



Contact your local authority for a full description of bridge marking requirements for your region.

For a copy of the IALA Recommendations for the marking of fixed bridges over navigable waters please contact Sealite.

Area Lighting

Solar Area Lights

88

12V Area Lights

90

Area Lighting

Monitoring &
Control Systems

Marine Buoys

Mooring Systems
& Accessories

Power Systems

Reference
Guides

Sealite's range of solar area lighting products enable users to illuminate remote locations such as boat launching ramps, maintenance areas, car parks and signage where connection to the power grid is unfeasible.

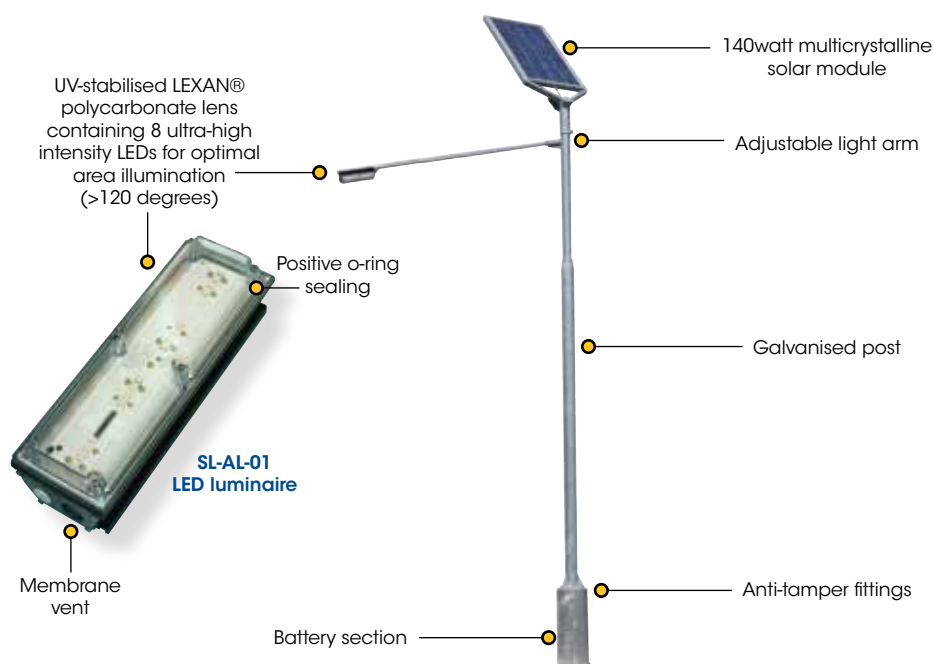
Surface-mounted LEDs ensure considerable light intensity for clear illumination.

Sealite's area lighting systems are available in a range of configurations to suit varying installation applications.



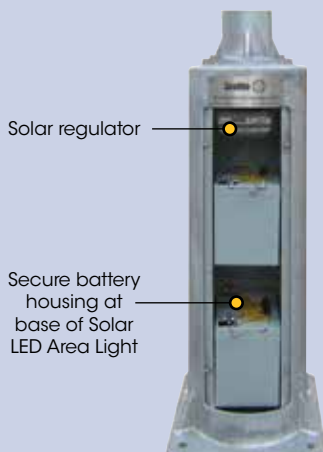
Solar Area Light

SL-SAL-01



The Sealite Advantage

- Solar powered
- Independent from mains power
- Uses state-of-the-art high performance power LEDs
- Toughened polycarbonate lens to withstand harsh environmental conditions & vandalism
- Designed to meet cyclonic conditions
- Adjustable ON time from 1 hour to dusk-till-dawn
- Waterproof light head, rated IP68
- Vandal-resistant battery enclosure
- 50,000 hour rated LEDs



Sealite's state-of-the-art Solar LED Area Light provides users with the perfect solution for lighting remote locations such as boat launching ramps, shelters, car parks and maintenance areas where connection to the power grid is unfeasible.

The SL-SAL-01 Solar LED Area Light sets a new standard in energy efficiency and light output.

Each LED bank is driven by high efficiency LED drivers maximising light output and LED life. The intensity is maintained at a constant level over various voltage shifts.

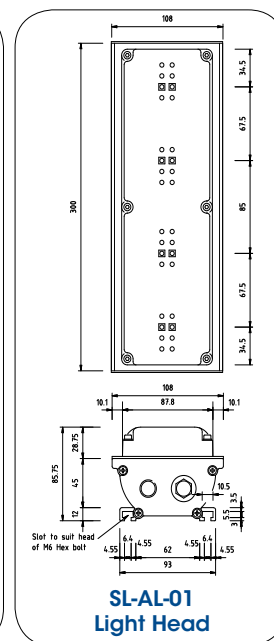
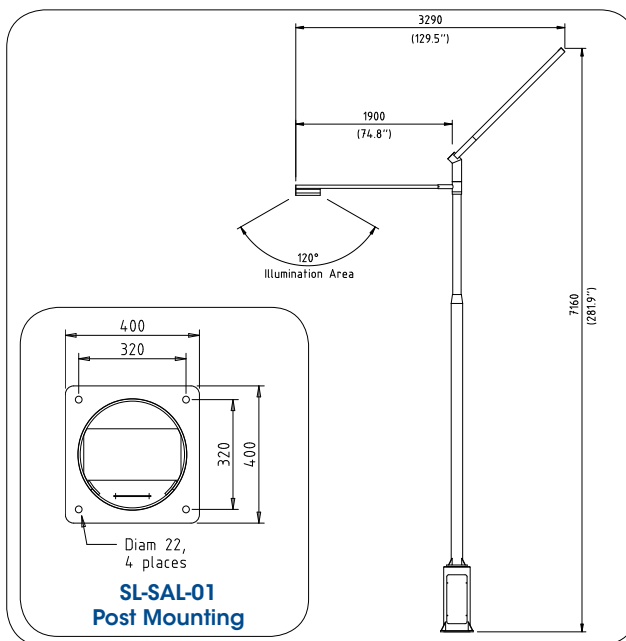
The light uses a 140watt multicrystalline solar panel, and Sealite's unique SL-AL-01 LED luminaire.

The light head body is constructed from extruded aluminium with injection-moulded UV-stabilised LEXAN® polycarbonate glass-filled end caps for superior strength and durability. The injection-moulded LEXAN® lens is fitted to the aluminium body with a marine grade o-ring ensuring a superior sealing (IP68 waterproof).

The weather resistant galvanised mounting pole securely houses the two 55Ah SLA batteries and 10Amp regulator in its base for ease of servicing after years of maintenance-free operation.

The light begins operation automatically, as soon as the ambient light threshold drops sufficiently, and once installed, requires minimal maintenance.





SPECIFICATIONS • * SL-SAL-01

Light Characteristics

Light Source
LED Life Expectancy (hours)

Photometry

Total Luminous Flux (lm)	1360
Luminous Efficacy (lm/W)	69.7

Electrical Characteristics

Voltage (V)	12
Current (A)	1.6
Power (W)	20
Circuit Protection	Integrated
Temperature Range	-40 to 55°C

Spectral Characteristics

CIE 1931 2 deg observer (x,y) ⁽¹⁾	(0.312, 0.336)
CIE 1976 2 deg observer (u',v') ⁽¹⁾	(0.195, 0.472)
Correlated Colour Temperature ⁽¹⁾	6500 K
Colour Rendering Index ⁽¹⁾	71
Colour Spatial Uniformity ⁽²⁾	0.0207

Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	140W
Charging Regulation	Integrated charge regulator

Power Supply

Battery Type	Gel SLA
Battery Capacity (Ah)	110Ah (2 x 55Ah batteries)
Nominal Voltage (V)	12
Operation without sunlight (autonomy nights)	5 nights (typical)

Physical Characteristics

Body Material (light head)	Extruded aluminium chassis with LEXAN® polycarbonate glass filled end caps - UV-stabilised
Lens Material (light head)	LEXAN® Polycarbonate - UV stabilised
Mounting (light head)	Adjustable along 78mm parallel channels
Height (light head) (mm/inches)	85 / 3 ³ / ₄
Width (light head) (mm/inches)	108 / 4 ¹ / ₄
Length (light head) (mm/inches)	300 / 11 ⁷ / ₈
Mass (light head) (kg/lbs)	1.5 / 3.3
Body Material (post)	Mild steel (hot-dipped galvanised)
Mounting (post)	4 x 22mm holes
Height (complete assembly) (mm/inches)	7160 / 281 ⁷ / ₈
Mass (complete assembly) (kg/lbs)	250 / 551
Product Life Expectancy	Up to 12 years ^

Certifications

CE	EN61000-6-3:1997, EN61000-6-1:1997
IALA	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO 9001:2008

Intellectual Property

SEALITE® is a registered trademark of Sealite Pty Ltd
3 year
• Dual arm assembly

Options AV

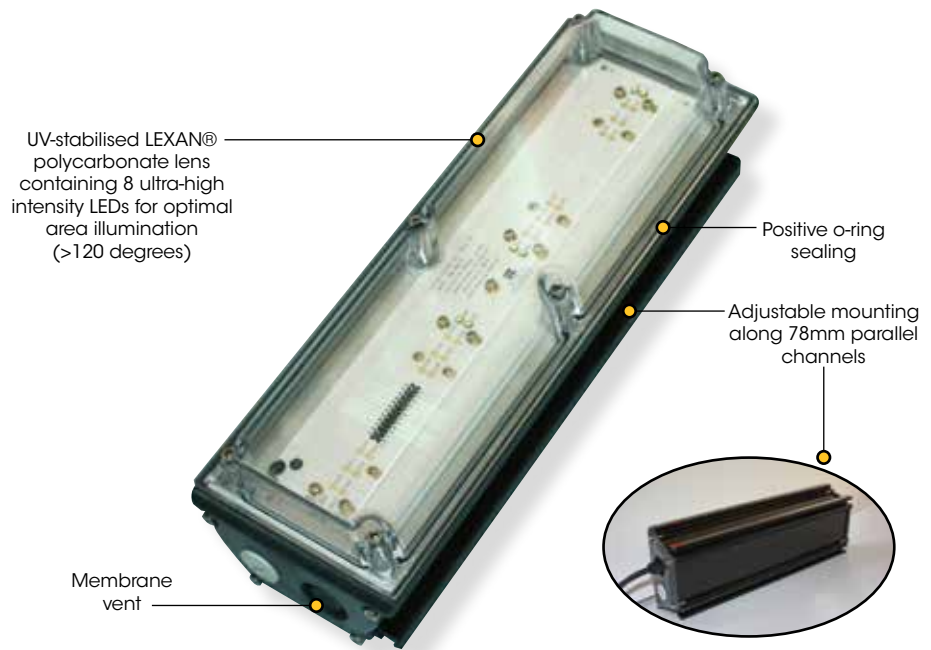
[^] Refer to the Sealite website under the warranty section

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

- (1) Value is computed from the weighted average of the spatial measurements
- (2) Value is the maximum deviation of the spatial 'u' and 'v' measurements from the weighted average

12V Outdoor Luminaire

SL-AL-01



The Sealite Advantage

- Uses state-of-the-art high performance power LEDs
- Toughened polycarbonate lens to withstand harsh environmental conditions & vandalism
- Waterproof light head, rated IP68
- 50,000 hour rated LEDs

Sealite's state-of-the-art outdoor LED luminaire provides users with the perfect solution for lighting remote locations such as shelters, car parks and maintenance areas.

Sealite has created a unique luminaire housing eight state-of-the-art, high-performance, power LEDs for optimal area illumination. Each LED bank is driven by high efficiency LED drivers maximising light output and LED life. The intensity is maintained at a constant level over various voltage shifts.

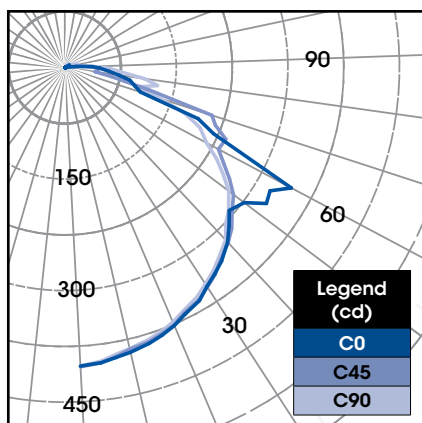
The luminaire body is constructed from extruded aluminium with injection-moulded, UV-stabilised, LEXAN® polycarbonate glass-filled end caps for superior strength and durability. The injection-moulded LEXAN® lens is fitted to the aluminium body with a marine grade o-ring ensuring superior sealing. The SL-AL-01 outdoor LED luminaire has an ingress protection rating of IP68 ensuring that internal electronics are completely sealed and protected from water intrusion and dust when installed in the toughest environmental situations.

The custom designed aluminium extrusion is interfaced with a thermal LED substrate to reduce the build up of internal temperatures. This prevents excess heat from LED operation and external temperatures combining to create unwanted stresses on electronic and mechanical components.

A membrane vent is used to equalise pressure in the light to that of atmospheric pressure. This permits improved protection of electrical components by reducing any pressure build-up on the sealing.

Triabunna, Tasmania, Australia

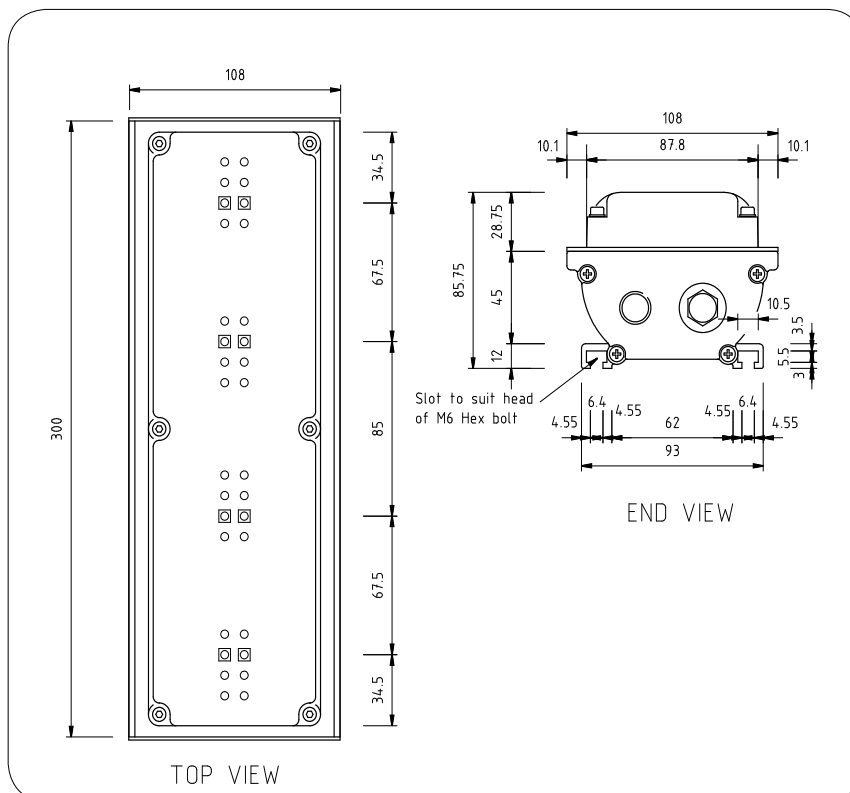




INTENSITY SUMMARY (cd)						
Gamma	C-Plane					Output Lumens
	C0	C22.5	C45	C67.5	C90	
0.0	409	409	409	409	409	
5.0	411	410	409	409	409	39
10.0	408	407	407	406	406	
15.0	402	401	403	402	402	114
20.0	396	395	395	393	392	
25.0	388	386	386	383	383	178
30.0	377	377	376	373	372	
35.0	362	363	361	359	356	225
40.0	343	342	344	338	339	
45.0	321	323	322	320	317	248
50.0	293	298	298	294	292	
55.0	327	309	267	263	257	250
60.0	345	316	234	227	216	
65.0	192	204	217	184	174	191
70.0	98	90	119	110	101	
75.0	73	64	41	124	108	82
80.0	47	44	47	61	59	
85.0	16	22	22	24	21	26
90.0	3	4	3	3	2	

ZONAL LUMENS AND PERCENTAGES			
Zone	Lumens	% Lamp	% Luminaire
0-30	331	N/A	24.3
0-40	556	N/A	40.9
0-60	1054	N/A	77.5
0-90	1352	N/A	99.4
40-90	796	N/A	58.5
60-90	298	N/A	21.9
90-180	8	N/A	0.6
0-180	1360	N/A	100.0

Light Output Ratio = N/A



SPECIFICATIONS * SL-AL-01

Light Characteristics

Light Source
LED Life Expectancy (hours)

8 ultra-high intensity white (warm daylight) LEDs
>50,000

Photometry

Total Luminous Flux (lm)
Luminous Efficacy (lm/W)

1360
69.7

Electrical Characteristics

Voltage (V)
Current (A)
Power (W)
Circuit Protection
Temperature Range

12
1.6
20
Integrated
-40 to 55°C

Spectral Characteristics

CIE 1931 2 deg observer (x,y) ⁽¹⁾
CIE 1976 2 deg observer (u',v') ⁽¹⁾
Correlated Colour Temperature⁽¹⁾
Colour Rendering Index⁽¹⁾
Colour Spatial Uniformity⁽²⁾

(0.312, 0.336)
(0.195, 0.472)
6500 K
71
0.0207

Physical Characteristics

Body Material

Extruded aluminium chassis with LEXAN® polycarbonate glass filled end caps - UV-stabilised
LEXAN® Polycarbonate - UV stabilised
Adjustable along 78mm parallel channels
85 / 3³/₄
108 / 4¹/₄
300 / 11⁷/₈
1.5 / 3.3
Up to 12 years ^

Lens Material

Mounting

Height (mm/inches)

Width (mm/inches)

Length (mm/inches)

Mass (kg/lbs)

Product Life Expectancy

Certifications

CE

IALA

Quality Assurance

Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

EN61000-6-3:1997, EN61000-6-1:1997

Signal colours compliant to IALA E-200-1

ISO 9001:2008

IP68

SEALITE® is a registered trademark of Sealite Pty Ltd
3 year

- Setable Timer Light Control
- External ON/OFF Switch
- Momentary Button



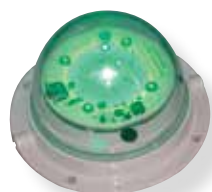
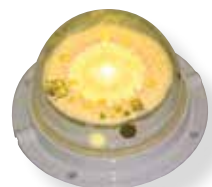
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(2) Value is the maximum deviation of the spatial 'u' and 'v' measurements from the weighted average

^ Refer to the Sealite website under the warranty section

12V Light Fixture

SL-09



Domed luminaire with
3watt surface mounted
ultra-high intensity
LED for optimal area
illumination
(>120 degrees)

Injection moulded
UV-stabilised LEXAN®
polycarbonate
lens and base

Provided with 1 metre
of cable for ease of
installation



The Sealite Advantage

- 12V
- Area Illumination
- Sign Lighting
- Available in multi-colours
- Range of mounting brackets to accommodate pole, ceiling or wall mounting

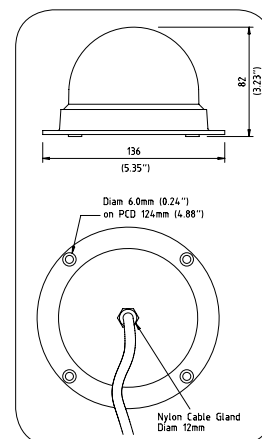
The SL-09 is a low-voltage area/compound light, designed to provide excellent ground or signage illumination.

The unit will provide an even 120 degree WHITE light spread from a 3 watt surface-mounted high-intensity LED.

The base of the light is made from injection moulded, UV-stabilised polycarbonate which is bonded to the domed polycarbonate lens.

The SL-09 can be supplied with convenient mounting brackets to provide pole, ceiling or wall mounting.

The lights are also available with 'plug & play' connectors for quick connection to battery and solar power packs.



SPECIFICATIONS * *

SL-09

Light Characteristics

Light Source
Available colours
Horizontal & Vertical Divergence (degrees)
LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)
Circuit Protection
Operating Voltage (V)
Temperature Range

Physical Characteristics

Body Material
Lens Material
Mounting
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

CE
IALA
Quality Assurance

Intellectual Property

Trademarks

Warranty *

Options Available

1x 3watt ultra-high intensity surface mounted LED
White, Red, Green, Yellow
120

>100,000

230
Polarity protected
12
-40 to 80°C

LEXAN® Polycarbonate – UV stabilised
LEXAN® Polycarbonate – UV stabilised
4 x 6mm mounting holes
82 / 3 1/4
136 / 5 1/3
0.6 / 1.3
Up to 12 years ^

EN61000-6-3:1997, EN61000-6-1:1997
Signal colours compliant to IALA E-200-1
ISO 9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
3 year

- Bracket assemblies
- Additional cable

^ Refer to the Sealite website under the warranty section

SL-09 Light Fixture

Fremantle Port, Western Australia

Case Study



PROJECT OVERVIEW

Location:	Western Australia
Date:	2011
Owners:	Fremantle Ports
Site:	Fremantle Port
Product:	SL-09
Application:	Leading lights

BENEFITS

- Sealite's ability to customise products to suit individual customer requirements
- The SL-09's wide light spread of 120deg makes it easier for vessels to locate the navigation aid
- Pilots can check their position allowing safe vessel navigation
- Safe and clear marking of the waterway
- Considerable savings in power consumption, installation and maintenance costs due to the use of solar power

Sealite's unique lighting solution leads the way in Fremantle Port

Sealite's product versatility provides a novel solution for the special leading lights required by Fremantle Ports.

Configurations of 5 x SL-09 LED light fixtures have been installed on day reflective shapes as leading lights into the main channel at Fremantle Port. To provide greater visibility from outside the centre of the leading entry into the channel, Fremantle Ports required a wider spread of light. This made Sealite's SL-09, with a light spread of 120deg, the perfect choice for guiding the pilots up the safe centre of the channel.

Sealite's SL-09 lights run independent of a microprocessor, allowing them to be controlled as the user requires via a light controller; 24 hours, dusk-till-dawn or preferred time duration.

Fremantle Port is Western Australia's largest and busiest general cargo port and is vitally important transport infrastructure. It contributes to the local and State economy by supporting investment and economic growth.

Area Lighting

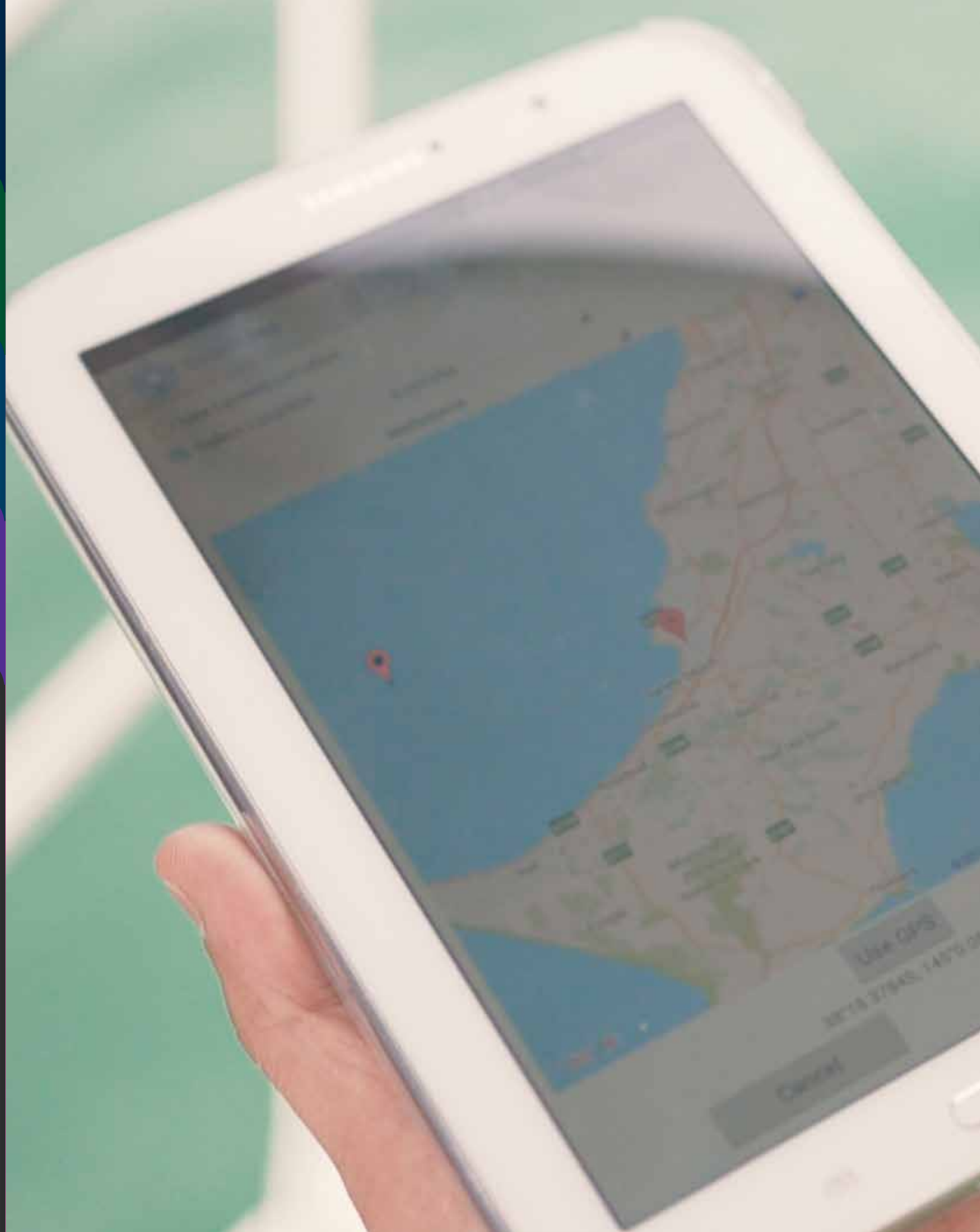
Monitoring &
Control Systems

Marine Buoys

Moorings Systems
& Accessories

Power Systems

Reference
Guides



Monitoring & Control Systems

SealitePro™	96
AIS Solutions	96
GSM Solutions	100
GPS Synchronisation	102

Sealite's range of Remote Monitoring and Control Systems provide users such as major Port Authorities and Coast Guards with the ability to effectively and efficiently monitor and control their AtoN installations from real-time data at an extremely low cost.

GPS platforms enable lights to flash in synchronisation, while GSM and Radio Control allows the user to remotely modify the settings of their navaid installations, such as flash setting, light colour and operational ON/OFF status.

Mariners and Ship Pilots benefit from the substantial increase in safety provided through the use of such reliable, state-of-the-art systems compatible with a range of Sealite lanterns.

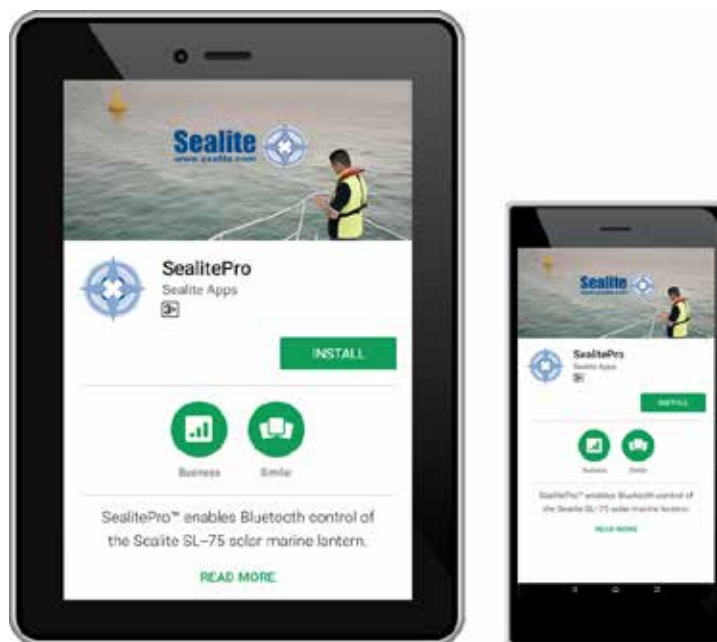




Bluetooth®

Bluetooth® Technology

Configuration & Control | SealitePro Application



The Sealite Advantage

- Easier and safer programming and maintenance
- Can be used up to 50m distance from lantern via smart phone or tablet
- Compatible with the SealitePro™ App
- Programming and maintenance becomes easier and safer than ever before

The SealitePro™ application is used to communicate with Sealite marine lanterns that have Bluetooth® technology fitted. Bluetooth® is a wireless technology for exchanging data over short distances (using short-wave length UHF radio waves) from fixed and mobile devices.

Programming & Maintenance becomes easier and safer than ever before

Set-up, configuration and maintenance checks can be performed from a distance of up to 50 meters via your phone or tablet.

This provides huge timesaving for maintenance workers, as well as reduced risk to personnel as maintenance and programming of the lantern can be performed at the touch of a button from the safety of the vessel without the need to climb a structure/ buoy.

The SealitePro™ App offers the following main functionality when communicating with the lantern:

- Lantern identification
- Lantern monitoring
- Security access PIN
- Flash code configuration
- Operating mode settings
- Lantern intensity adjustment
- Sync offset
- Hibernation mode
- Solar calculation
- Battery health check

Using the in-built Sealite Solar Calculator, you can verify a lantern's ability to operate in a set location using the device GPS coordinates or manually select a global location from anywhere in the world. The solar calculator will determine the average sunlight hours for the given location, power requirements based on the flash code and intensity settings and provide a result to the user on suitability.





The Sealite Advantage

- Long range flash synchronisation via GPS satellites
- No limitation on distance or objects between lanterns
- Each lantern operates independently (no operator intervention required)
- Internal GPS module with no external components required, maintaining IP68 waterproof rating of lantern
- Clear identification of AtoNs against confusing background lighting
- Ease of installation
- Lanterns set to the same flash pattern will come into synchronisation



For flash synchronisation of lanterns installed over longer ranges, Sealite has developed an advanced GPS system. Lanterns are fitted with an internally integrated GPS module which also enables the lights to maintain their high IP68 waterproof rating.

Sealite's GPS system provides users with the ability to mark a channel, port or river with independently operating lanterns that all flash in synchronisation. This presents a clear outline of the channel each time the lanterns flash and is particularly effective in overcoming background lighting, as opposed to indiscriminate flashing lights which may render the judgement of distance and navaid location difficult.

The Global Positioning System (GPS) receiver is housed within the Sealite lantern and no additional power supplies, aerials or control systems are required. This lantern option is microprocessor-based and has been designed to provide maximum reliability and performance of the lantern over a wide range of environmental conditions.

Using overhead satellites, multiple GPS lanterns set to the same flash pattern will synchronise anywhere in the world.

How does it work?

Synchronisation is achieved using an internal algorithm based on the highly accurate time base and time data received from the satellites. At power-up the microprocessor checks that the internal GPS module is programmed correctly and is able to provide valid time base and time data.

The light then checks for day/night. If it is night the internal microprocessor will use the GPS data to maintain flash synchronisation.

SeaFlare™ Technology

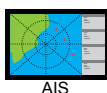
The inbuilt GPS receiver and advanced software of the Sealite synchronised lanterns allow for the adoption of SeaFlare™ channel marking – a unique system that cascades the synchronisation of channel lanterns in a uni or bi-directional flash pattern.

In Australia, the Port of Melbourne Corporation has adopted this technology from Sealite to clearly identify the channel leading into Station Pier – an area that regularly accommodates some of the world's largest passenger vessels.

The neighbouring Port of Geelong utilise this technology to safely guide Aframax Tankers among other large sized vessels into harbour.



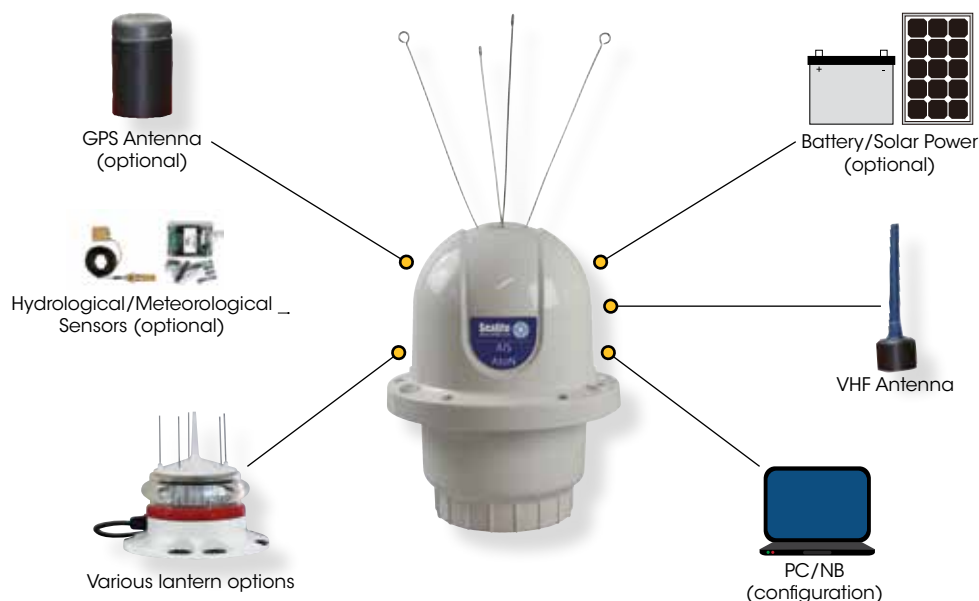
Port of Geelong GSM/GPS synchronised channel beacons, Australia



AIS

AIS Solutions

Automatic Identification System



The Sealite Advantage

- Complete AIS solutions display accurate positioning & operational information about the AtoN
- Type 1 & Type 3 models available
- Low power consumption, making the units ideal for solar & AtoN installations
- Accurate & real-time information
- Supports synthetic & virtual transmissions
- Supports messages 21, 6, 7, 8, 12, 13, 14 & 25 (dependent on hardware & software configuration)
- Supports meteorological & hydrological (message 8)
- Fully compliant with IALA, IEC & ITU standards
- BSH, CE, FCC & USCG approved
- Capable to repeat SART, 6, 8 messages (Type 3 only)
- Supports remote configuration control (Type 3 only)
- Supports chaining to extend transmission range (Type 3 only)
- Available option with many of the Sealite lantern range

Sealite's AIS solutions are available in Type 1 or Type 3 and operate on the international VHF Maritime Mobile Band, enabling Port Authorities and other users to remotely monitor the real-time status of their AtoN installations.

The Type 1 or Type 3 AIS solutions can be configured to a range of Sealite products, including ocean buoys, solar marine lanterns, and stand-alone models.

Mariners in the broadcasting region are provided with crucial Message 21 information (as defined by the International Telecommunications Union (ITU)) such as AtoN operational status and positioning – revolutionising the VTS system by expanding AtoN information availability to users.

In addition, the AIS enabled AtoN broadcasts AIS Message 6 received by the designated base station, allowing the operator to monitor the AtoN for solar and battery voltage, flash code setting and light status. Meteorological and hydrological data and a host of other parameters can be fitted.

Low Power Consumption

Sealite's AIS solutions have an incredibly low power consumption of less than 0.5 Ah/day making them suitable for a large range of solar installations. The compact AIS AtoN Transponder is available installed within Sealite's range of self-contained lantern assemblies - providing installation flexibility and operational reliability for a range of environmental conditions and demanding duty cycles.

Synthetic & Virtual AIS AtoNs

Sealite's AIS AtoNs are able to support real, synthetic and virtual transmissions. Versions of the self-contained AIS Transponder are available without the lantern integration to enable the benefits of AIS if a visual navaid is not required.

Type 1 & Type 3 AIS AtoNs

AIS AtoNs use either the FATDMA (Fixed Access Time Division Multiple Access) or RATDMA (Random Access Time Division Multiple Access).

Type 1 AIS AtoN uses the FATDMA access scheme and can only transmit AIS signals. This means the AtoN requires a nearby base station to reserve the slots (message spaces) used by the AIS enabled AtoN.

Type 3 AIS AtoN has the capability to transmit as well as receive and uses the RATDMA access scheme. This allows the AtoN to autonomously allocate slots for its own transmission by listening to AIS frequencies and determining which slots are available for use.

The Type 3 AIS AtoN is able to be installed at any location because, unlike Type 1 AIS, it does not require slots to be reserved and can therefore be used in areas with or without a base station. Sealite's Type 3 AIS is able to 'chain' several units together to extend the transmission range.

The Type 3 AIS AtoN can also support remote control functions including lantern flash character, ON/OFF activation and intensity setting.



Sealite's AIS AtoNs can be delivered pre-programmed or can be provided with software enabling the user to program the unit

Integrated Internal AIS

The SL-155 lanterns (5 & 10 degree models) are available with a class-leading integrated, low-powered Type 1 or Type 3 AIS. When fitted, the AIS is encapsulated within the body of the SL-155 to maintain the weatherproof integrity and come standard with GPS. All 3 models can also be ordered with an external Type 1 or Type 3 AIS transponder if required, along with various solar power options.



Programming

Sealite is able to deliver pre-programmed AIS AtoNs or can provide a software application to enable the user to program the unit via an RS232 interface.

AIS AtoN Applications

The use of AIS as an AtoN can provide benefits and services to both vessels and port authorities. Some of the descriptions below are taken from IALA Guideline No. 1062.

Services to AIS equipped vessels

- Provide identification of the AtoN in all weather conditions
- Complement existing signals from AtoN (e.g. Racon)
- Transmit accurate positions of floating AtoN
- Indicate if a floating AtoN is off position
- Mark or delineate tracks, routes, areas and limits (for example, areas to be avoided and TSS)
- Traffic Separation Schemes (TSS)
- Mark offshore structures (for example, wind turbines, wave and tidal energy devices, oil and gas platforms)
- Provide weather, tidal and sea state data
- Provide additional AtoN capability through use of virtual AIS AtoN where installation of physical AtoN is technically or economically difficult
- Indicate AtoN status
- Provide an accurate position for fixed AtoN which acts as reference targets for verifying radar

Benefits to AtoN Authority or Port Authorities

- Monitor the status of an AtoN
- Track AtoNs that are off position
- Assist in the identification of ships involved in collisions with AtoN through provision of exact AtoN position data
- Gather real-time (or near real-time) information on the 'state of health' of an AtoN
- Remotely control changes in AtoN parameters (if so equipped)
- Provide statistics on reliability of AtoN



Ocean buoys



Self-contained lanterns



Stand alone lanterns

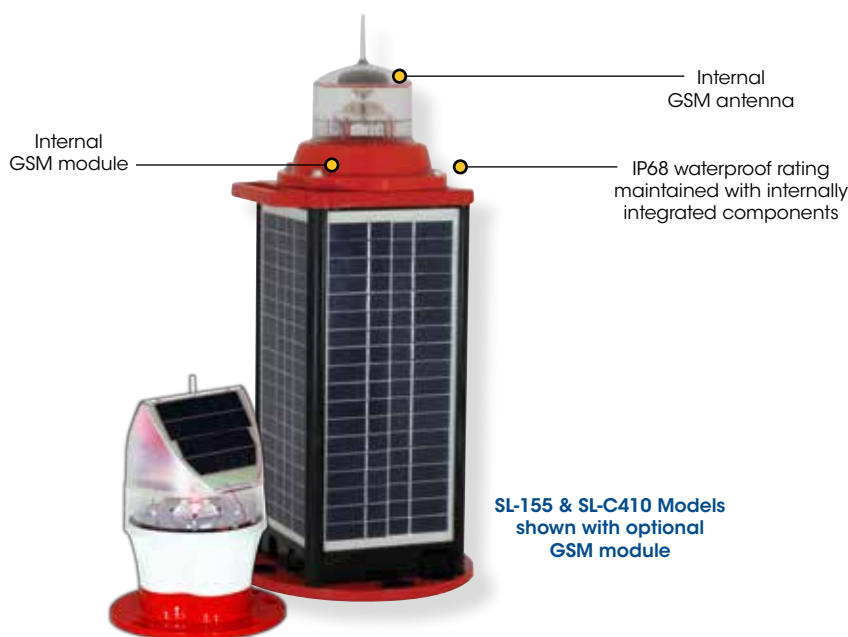


GSM Solutions

Monitoring & Control System



GSM module, SIM card & electronic hardware



SL-155 & SL-C410 Models
shown with optional
GSM module

The Sealite Advantage

- Monitor lantern status using any cell-phone or Sealite's secure website user-portal login
- Reports pre-programmed alarm conditions to designated cell-phone numbers and email addresses
- Remote control of lantern settings
- Lantern responds only to authorised users
- Internally integrated system available with a range of Sealite lanterns to maintain IP68 waterproof rating
- Trend analysis of historical data enables proactive maintenance scheduling
- Low cost monitoring



Sealite's cost effective GSM Monitoring & Control System provides an array of options for your lantern including remote control over flash code and intensity settings, and other features for GSM-enabled lanterns.

Data is able to be communicated from the lantern including lantern statistics, battery condition and GPS positioning via your cell-phone, email address or Sealite's secure web portal.

Maintenance personnel are able to send an SMS message to the designated Sealite GSM lantern cell-phone number and then receive an automatic SMS reply detailing the various pre-set operational conditions. In addition, various alarm conditions can also be activated such as tracking a drifting buoy via GPS that has moved outside a designated area (if mooring is broken etc) or alerting to a potential power disruption.

Sealite's innovative GSM Monitoring & Control System may also be setup to regularly report lantern conditions to a secure user-login portal area of the Sealite website. This provides details of the GSM lantern's operational status in an easy-to-read PC interface, such as historical graphed data, GPS positioning viewed via internet mapping systems and day-to-day operational information about each individual lantern over the period of its service life. Users can also have alarms and reports sent to designated email addresses.

Each lantern is fitted with its own SIM card which provides a designated cell-phone contact number for each individual lantern. Any network operator can be used providing they have GSM coverage.

Monitoring Conditions

- Battery voltage
- Solar module charging current
- Lantern current draw
- Lantern position - Latitude and Longitude (including 'off-station' facility)
- Day/night on status
- Current flash code setting
- Operation mode

Control Features

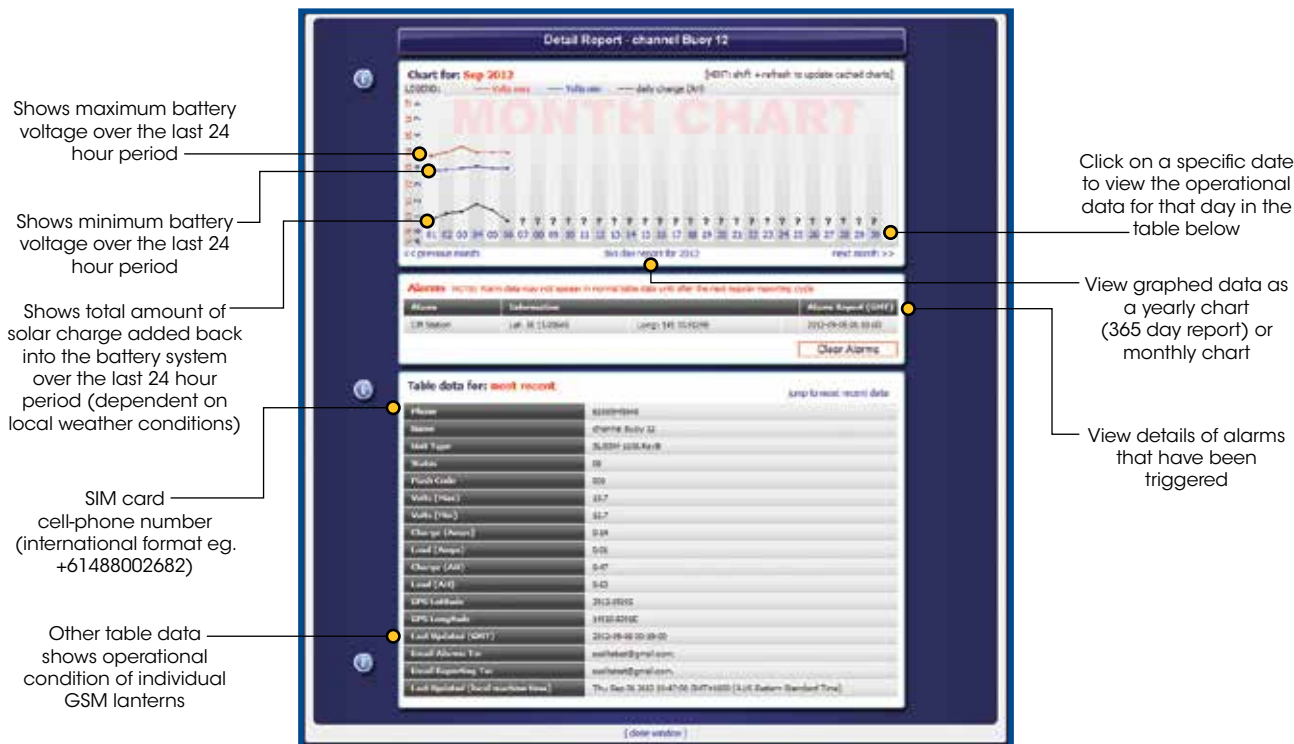
- Flash setting
- Intensity setting
- Operation mode

'Off-Station' Alarm Condition

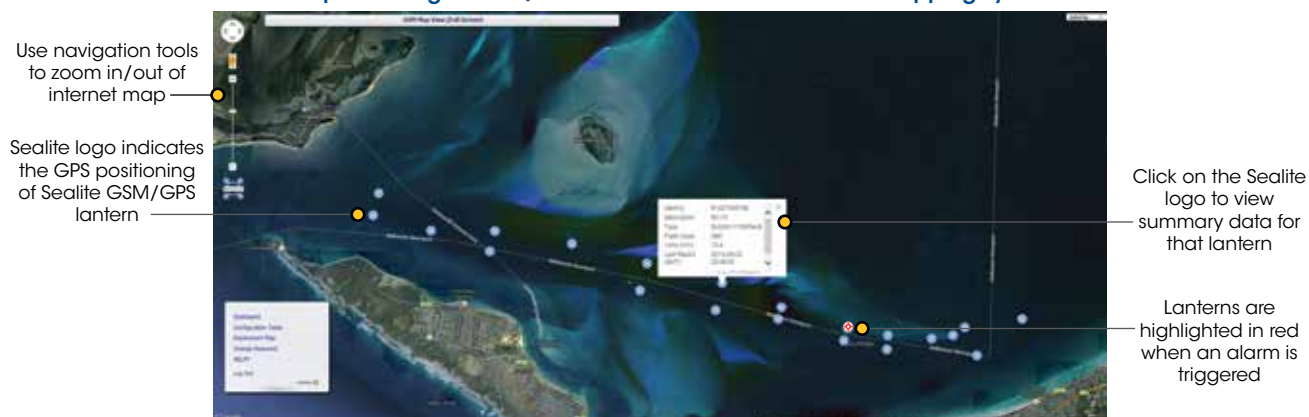
If the AtoN moves off-station, the operator can continue to track the location of the unit for safe recovery (providing the system remains in or returns to an area with GSM coverage).



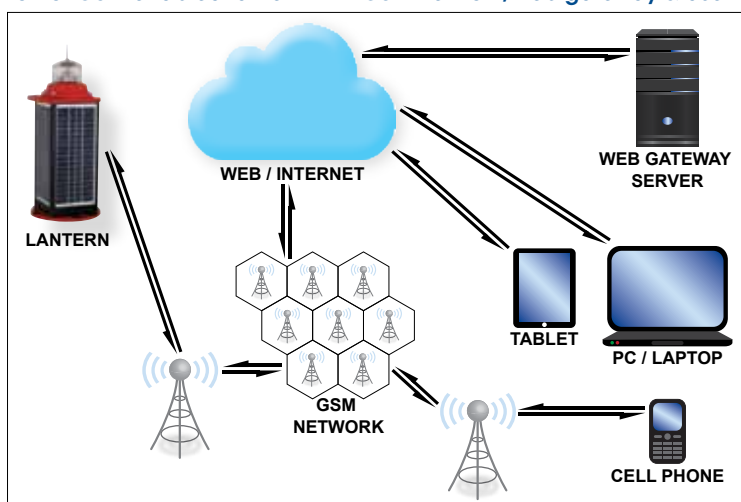
Monitor GSM light installations via Sealite's secure website user-login portal



GPS positioning of GSM/GPS lantern viewed via internet mapping system



Interaction of GSM enabled lantern with GSM network, web gateway & user devices





Marine Buoys

Spar Buoys:	108
Inland River Buoy:	112
Mooring Buoys:	114
Marker Buoys:	120
Navigation Buoys:	130
Ocean Buoys:	138
Barrier Floats:	152
Pipe Floats:	154



Sealite manufactures marine buoys in 3 global locations. Sealite marine buoys are manufactured 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 turnkey production of navigation buoys. From tooling development, raw material 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.



Spar Buoys

SL-B576
Model



Optional reflective
stripe

Signage on
10oz buoy wrap
(SL-B1060 Model)

Completely foam filled
with 2lb/cu ft USCG
accepted injected foam

Anchor point
recessed in base

SL-B1060 Model



Self righting

Heavy duty, one
piece, UV-stabilised,
polyethylene shell

Concrete
counterweight for
upright performance

The Sealite Advantage

- Heavy duty, polyethylene shell
- Available in various heights
- Recessed anchor point
- Completely foam filled — virtually unsinkable
- Concrete internal counterweight
- Low acquisition cost
- Suitable for sub zero temperatures
- Optional reflective band for unmatched night visibility
- Optional SL-15 or SL-60 solar lantern (SL-B1060 model)
- Custom signage available

The Sealite spar buoys are a high-quality, affordable buoys ideal for marking hazards, mooring fields and channels in lakes and ponds.

The buoys are available in various heights. They are rotationally-moulded in one piece using UV-stabilised polyethylene making them almost indestructible. The buoys are completely foam filled for added strength and buoyancy and are virtually unsinkable in the unlikely event of damage.

The anchor point is recessed giving the buoys a flat base so they are able to stand upright for easy and convenient storage.

An internal concrete counterweight gives the buoy a lower center of gravity, providing more stability so the buoy is able to stand more upright on station.

The USCG approved optional reflective band gives unmatched night time visibility. The SL-B1060 buoy can be fitted with an SL-15 or SL-60 solar lantern further increasing visibility to 1-3NM+.

The SL-1060 is available with customizable signage made from a vinyl 'buoy wrap' which is easily replaced if damaged.

Custom colours are available on request.

Available Configurations

Regulatory buoy: Orange/white

Hazard buoy: Orange

Special purpose marks: Yellow

Channel markers: Red, green or black

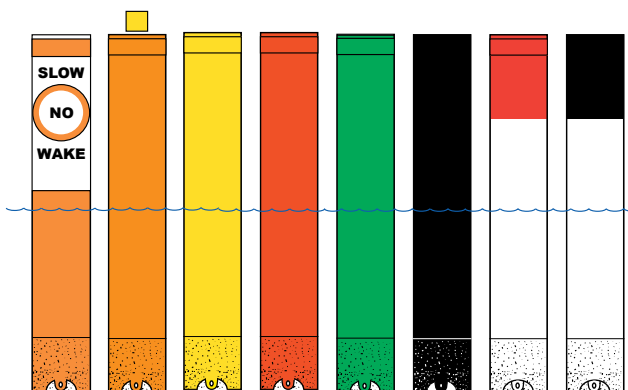
Navigation buoy: White with red top

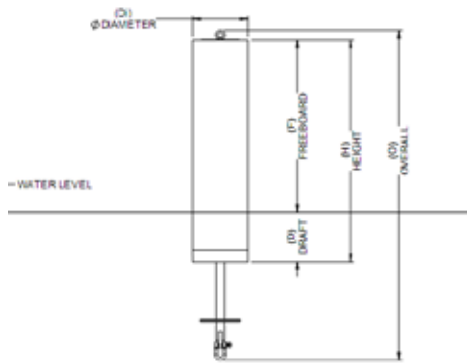
Navigation buoy: White with black top



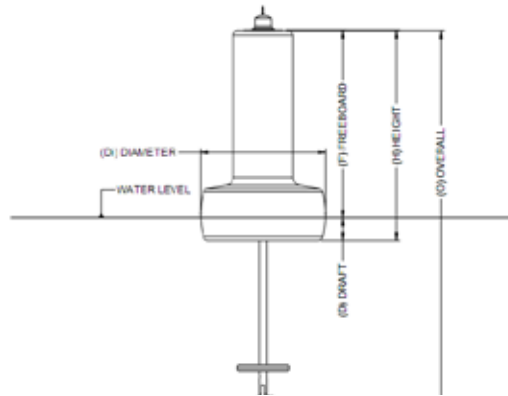
**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.





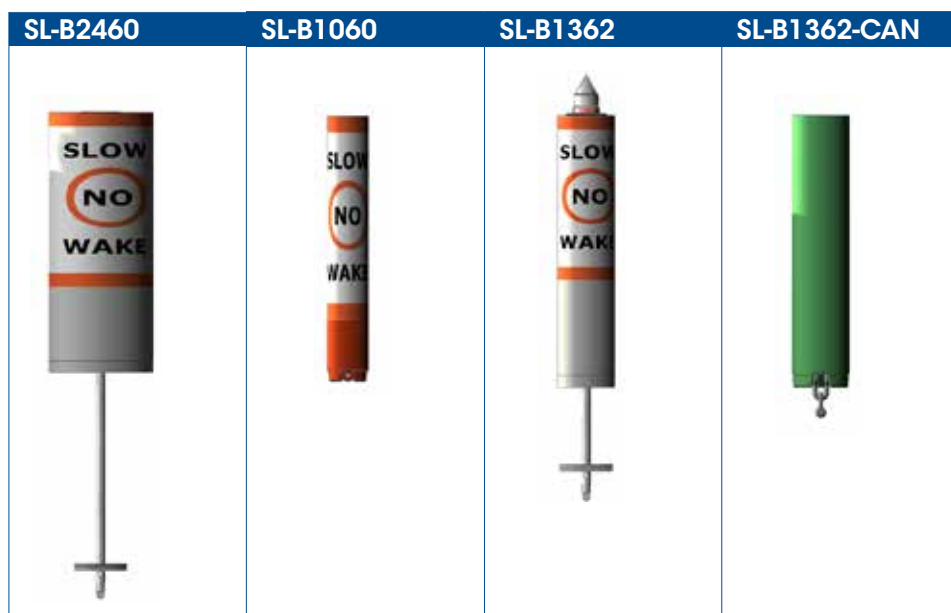
Typical view. See table below for exact dimensions.



SL-B2445	SL-B1251	SL-B1352	SL-B1452
			

SPECIFICATIONS * *	SL-B2445	SL-B1251	SL-B1352	SL-B1452
General Characteristics				
Available Colours	Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	995 / 39	967 / 38.1	1028 / 40.5	1008 / 39.7
(F) Nominal Freeboard (mm/inches)	995 / 39	967 / 38.1	1028 / 40.5	1008 / 39.7
(D) Nominal Draft (mm/inches)	1301 / 51.25	937 / 36.9	876 / 34.5	1290 / 50.8
Reserve Buoyancy (kgs/lbs)	290 / 639	70.3 / 155	88 / 194	100 / 220.3
Maximum Mooring Load (kgs/lbs)	23 / 52	3.9 / 8.6	9.75 / 21.5	9.3 / 20.5
Submergence (kg/cm, lb/inches)	2.92 / 16.31	0.73 / 4.08	0.86 / 4.79	0.99 / 5.55
Visual Area (m ² /ft ²)	.55 / 5.95	0.27 / 2.98	0.3 / 3.3	0.32 / 3.47
Physical Characteristics				
Material	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye
Wall Thickness (mm/inches)	5 / 02	5 / 02	5 / 02	5 / 02
Ballast (kg/lbs)	7.5 / 16.52	4.4 / 9.6	4.4 / 9.6	7.5 / 16.52
Filling	Closed-cell polyurethane foam	Closed-cell polyurethane foam	Closed-cell polyurethane foam	Closed-cell polyurethane foam
(H) Height (mm/inches)	1143 / 45	1295.4 / 51	1321 / 52	1321 / 52
(D) Diameter (mm/inches)	609 / 24	305 / 12	330 / 13	355.6 / 14
Mass (kg/lbs)	43 / 94.6	24 / 52.6	15 / 55.3	31 / 68.3
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^	Up to 12 years ^	Up to 12 years ^
Certifications				
IALA	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108
Intellectual Property				
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *				
Lantern Options	Sealite SL15, SL 60, SL70, SL75 lantern	Sealite SL15, SL 60, SL70, SL75 lantern	Sealite SL15, SL 60, SL70, SL75 lantern	Sealite SL15, SL 60, SL70, SL75 lantern
Options Available				
	- Custom signage - Vinyl 'buoy wrap' - Reflective band	- Custom signage - Vinyl 'buoy wrap' - Reflective band	- Custom signage - Vinyl 'buoy wrap' - Reflective band	- Custom signage - Vinyl 'buoy wrap' - Reflective band

Spar Buoys



SPECIFICATIONS * *	SL-B2460	SL-B1060	SL-B1362	SL-B1362-CAN
General Characteristics				
Available Colours	Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	1293 / 50.9	863 / 34	1026 / 40.4	1026 / 40.4
(F) Nominal Freeboard (mm/inches)	1293 / 50.9	863 / 34	1026 / 40.4	1026 / 40.4
(D) Nominal Draft (mm/inches)	1628 / 64.1	686 / 27	1237 / 48.7	548 / 21.6
Reserve Buoyancy (kgs/lbs)	376 / 830.1	33 / 15	87.5 / 193	87.5 / 193
Maximum Mooring Load (kgs/lbs)	110 / 243	12 / 5	9.6 / 21.2	9.5 / 20.9
Submergence (kg/cm, lb/inches)	2.92 / 16.31	0.507 / 2.8	0.86 / 4.79	0.86 / 4.79
Visual Area (m ² /ft ²)	0.55 / 5.95	0.2 / 2.2	0.3 / 3.22	0.3 / 3.22
Physical Characteristics				
Material	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye
Wall Thickness (mm/inches)	5 / 0.2	9 / 3/8	5 / 0.2	5 / 0.2
Ballast (kg/lbs)	7.5 / 16.52	22.6 / 50 internal counter-weight	7.5 / 16.52	28.3 / 62.3 internal counter-weight
Filling	Closed-cell polyurethane foam	Closed-cell polyurethane foam	Closed-cell polyurethane foam	Closed-cell polyurethane foam
(H) Height (mm/inches)	1524 / 60	1549 / 60	1575 / 62	1575 / 62
(Di) Diameter (mm/inches)	609 / 24	254 / 10	330 / 13	330 / 13
Mass (kg/lbs)	67 / 148	29 / 65	46.7 / 103	46.2 / 102.2
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^	Up to 12 years ^	Up to 12 years ^
Certifications				
IALA	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108
Intellectual Property				
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	1 year	1 year	1 year	1 year
Lantern Options	Sealite SL15, SL 60, SL70, SL75 lantern	Sealite SL-15 or SL-60 lantern	Sealite SL15, SL 60, SL70, SL75 lantern	Sealite SL15, SL 60, SL70, SL75 lantern
Options Available	• Custom signage • Vinyl 'buoy wrap' • Reflective band	• Custom signage • Vinyl 'buoy wrap' • Reflective band	• Custom signage • Vinyl 'buoy wrap' • Reflective band	• Custom signage • Vinyl 'buoy wrap' • Reflective band



* Specifications subject to change or variation without notice

* Subject to standard terms and conditions

^ Refer to the Sealite website under the warranty section



	SL-B1362-CONE	SL-B576	SL-B980	SL-B1428
				
SPECIFICATIONS • *	SL-B1362-CONE	SL-B576	SL-B980	SL-B1428
General Characteristics				
Available Colours	Red, Green, White, Yellow as per IALA Recommendations	Black, Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations	Black, Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	1092 / 43	914 / 36	863 / 42	1112 / 43.8
(F) Nominal Freeboard (mm/inches)	1092 / 43	914 / 36	863 / 42	1112 / 43.8
(D) Nominal Draft (mm/inches)	482 / 19	1016 / 40	965 / 38	1160 / 45.7
Reserve Buoyancy (kgs/lbs)	93.3 / 205.8	9 / 4	11/25	161 / 356.3
Maximum Mooring Load (kgs/lbs)	15.2 / 33.5	5 / 2	11/25	78.5 / 173.2
Submergence (kg/cm, lb/inches)	0.86 / 4.79	0.127 / 0.7	0.41 / 2.30	3.97 / 22.2
Visual Area (m²/ft²)	0.24 / 2.6	0.11 / 1.2	0.24 / 2.6	0.32 / 3.47
Physical Characteristics				
Material	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye	Rotationally-moulded UV-stabilised virgin polyethylene, 316-grade mooring eye
Wall Thickness (mm/inches)	5/02	7 / ¼	7 / ¼	5/02
Ballast (kg/lbs)	28.3 / 62.3 internal counter-weight	6.8 / 15 internal counter-weight	22.6 / 55 internal counter-weight	24 / 53
Filling	Closed-cell polyurethane foam	Closed-cell polyurethane foam	Closed-cell polyurethane foam	Closed-cell polyurethane foam
(H) Height (mm/inches)	1575 / 62	1930 / 76	1397 / 55	2272.9 / 89.5
(Di) Diameter (mm/inches)	330 / 13	127 / 5	228 / 9	711 / 28
Mass (kg/lbs)	41 / 91	10.4 / 23	29 / 78	54 / 119
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^	Up to 12 years ^	Up to 12 years ^
Certifications				
IALA	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108	Surface colours compliant to IALA E-108
Intellectual Property				
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	1 year	1 year	1 year	1 year
Lantern Options	Sealite SL15 lantern	Sealite SL-15 or SL-60 lantern	Sealite SL-15 or SL-60 lantern	Sealite SL15, SL 60, SL70, SL75 lantern
Options Available	- Custom signage - Vinyl 'buoy wrap' - Reflective band	- Custom signage - Vinyl 'buoy wrap' - Reflective band	- Custom signage - Vinyl 'buoy wrap' - Reflective band	- Custom signage - Vinyl 'buoy wrap' - Reflective band

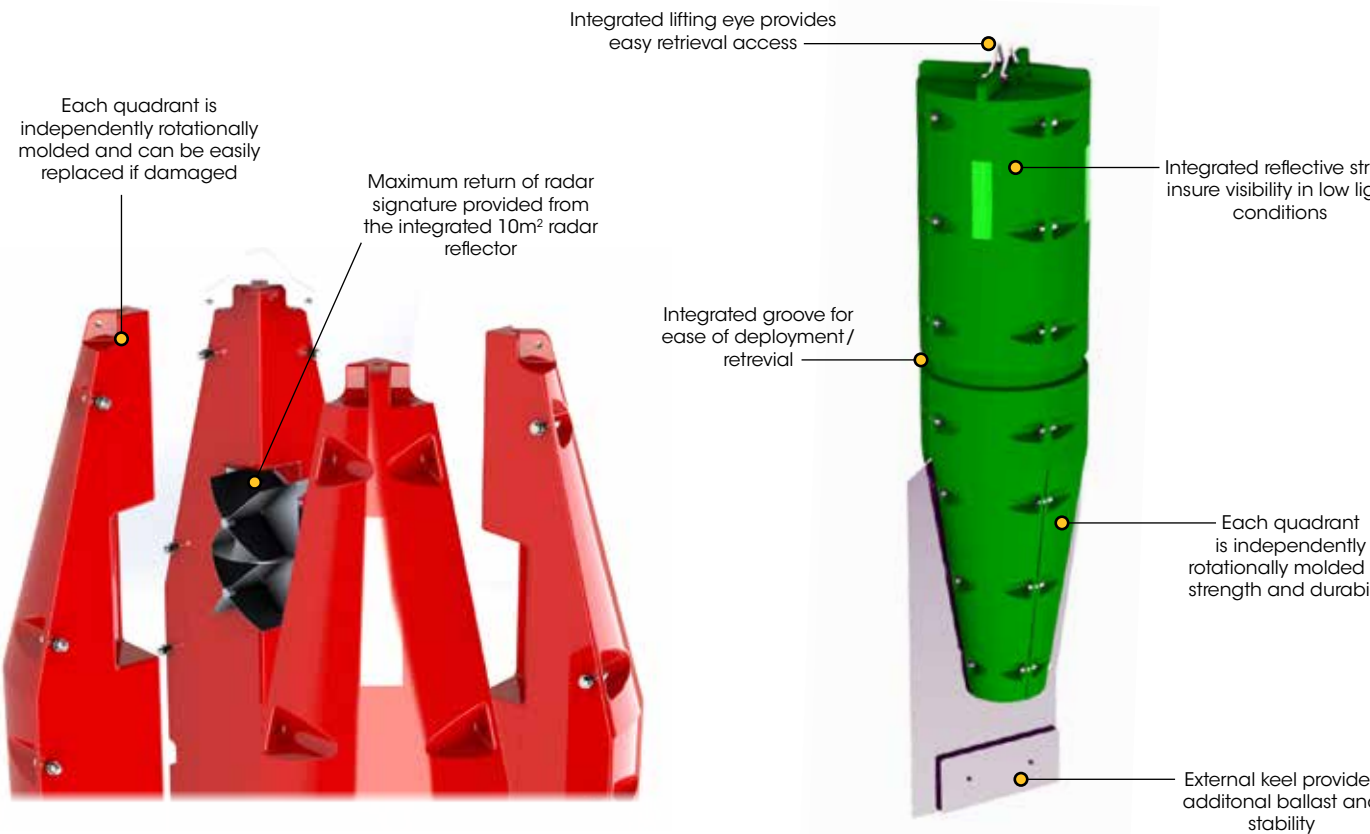


• Specifications subject to change or variation without notice
 * Subject to standard terms and conditions
 ^ Refer to the Sealite website under the warranty section



Inland River Buoy (USCG 4th Class design)

SL-B4R Series



The Sealite Advantage

- Patented four quadrant design
- Heavy duty, polyethylene 4-piece shell
- Suitable for sub zero temperatures & ice floes
- Easy-to-replace quadrants allow for quick, on-board buoy maintenance
- Multiple mooring hardware attachment points allow buoy to stand upright in varied river conditions and floes
- Optional mold-in graphics



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

The Inland River Buoy (4th Class design) features a patented, four quadrant, sectional design with separate, rotationally molded pieces.

In the event of a quadrant being damaged or punctured, a replacement quadrant can easily be affixed, providing economical repair of the buoy rather than full replacement.

Each of the four quadrants are rotationally-moulded using UV-stabilized polyethylene, making it virtually indestructible and unsinkable. The exterior is made from impact resistant polyethylene - thicker and stronger than most single piece buoy alternatives. Its light weight robust design allows for easy deployment and installation.

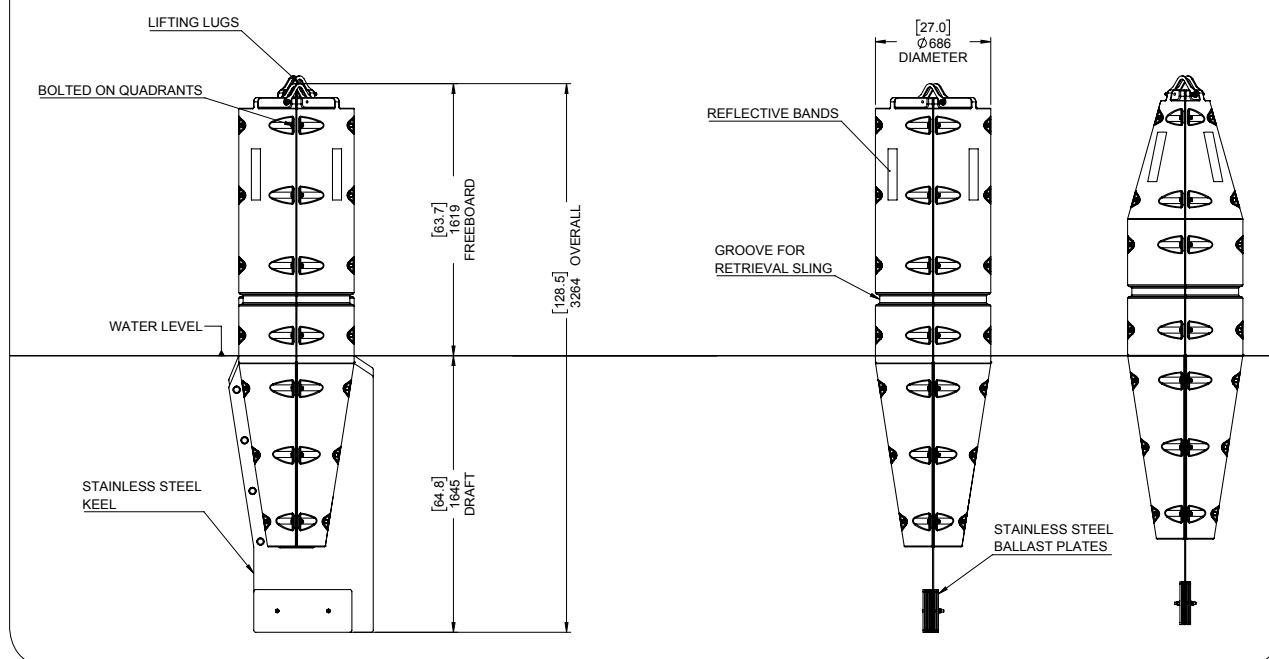
The quadrants affix to each other and are designed with an internal cavity that holds a radar reflector capable of a 10m² radar cross section. Also integrated into the design is a carbon steel keel that provides an adjustable ballast providing optimal focal height in a variety of environments.

Multiple external anchor points allow the buoys' mooring hardware to be positioned to suite the specific installation environment and water flow; the buoy's vertical integrity can be married to water flow speed and direction for optimal viewing by all vessels and captains.

Sealite's Inland River Buoy is an ideal aid to navigation on high traffic rivers and waterways, or where seasonal weather hazards, such as ice, floods and droughts, occur. Government and local authorities who install, maintain, or replace aids to navigation, can economically keep inland waterways, rivers, or lakes marked and operational for important river shipments and revenue with Sealite's new Inland River Buoy.



SL-B4R-B-G SL-B4R-B-R



SPECIFICATIONS * *

SL-B4R Series

General Characteristics

Available Colours
Focal Plane Height (mm/inches)
Nominal Freeboard (inches)
Visual Area (m²/ft²)

Red, Green, White, Yellow as per IALA Recommendations
1225 / 48
1779 / 70
1.22 / 13⁵/₁₆

Physical Characteristics

Material
Wall Thickness (mm/inches)
Filling
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)

Rotationally-moulded UV-stabilised virgin polyethylene
8 / 0.3
Closed-cell polyurethane foam (float section)
3264 / 128¹/₂
686 / 27
270 / 595¹/₄

Product Life Expectancy

Up to 12 years

Certifications

IALA
Quality Assurance

Surface colours compliant to IALA E-108
ISO9001:2008

Intellectual Property

Trademarks

Warranty *

Lantern Options

Options Available

SEALITE® is a registered trademark of Sealite Pty Ltd
5 year

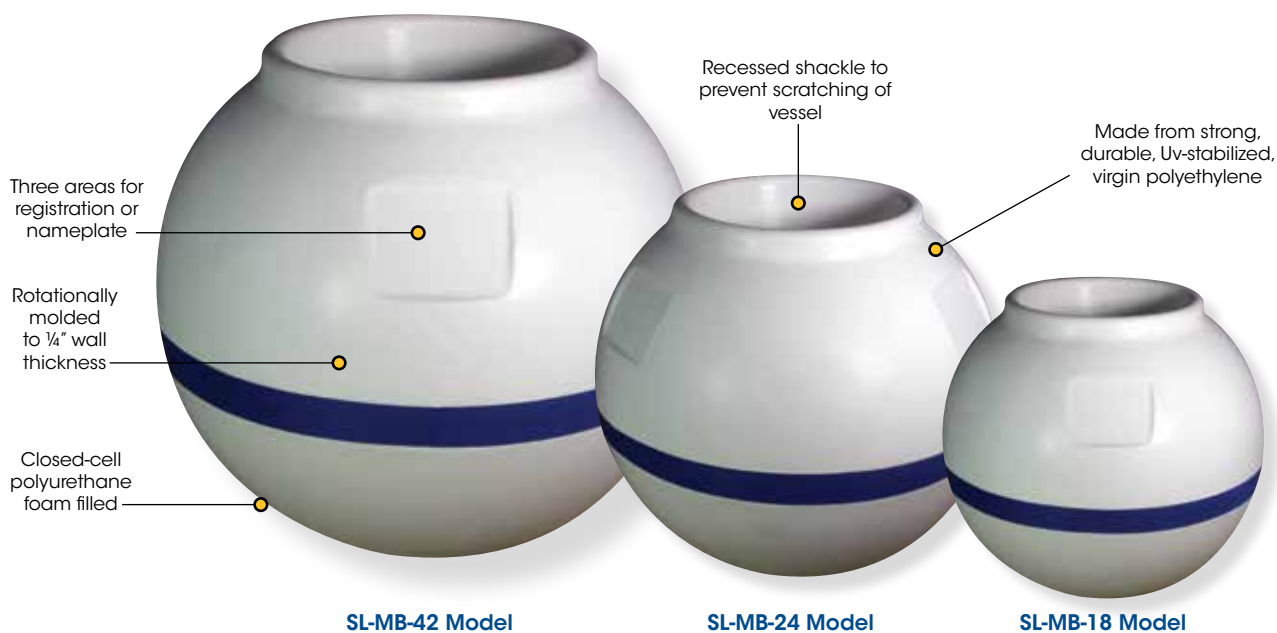
• Custom Signage

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



Mooring Buoys

SL-MB-18, SL-MB-24 & SL-MB-42



SL-MB-42 Model

SL-MB-24 Model

SL-MB-18 Model

The Sealite Advantage

- Recessed shackle prevents scratching of vessel
- No painting ever
- Strong, polyethylene construction
- Clear identification with optional graphics
- SL-MB-18: 18" diameter
- SL-MB-24: 24" diameter
- SL-MB-42: 42" diameter

The Sealite range of Mooring Buoys are designed to offer customers long life and are suitable for a range of locations. They have a recessed top section which allows the connecting shackle to be protected from scratching the vessel.

The mooring buoys are available in 18" (457mm), 24" (610mm) and 42" (1070mm) diameter. The mooring buoys are rotationally-molded from UV-stabilized virgin polyethylene and are foam filled with closed-cell polyurethane to prevent water ingress in the unlikely event of damage to the outer layer.

The buoys have a molded centre pipe with 2.6 inches (66mm) ID that will accept mooring chain of up to 5/8 inch (16mm) in diameter. The mooring tube is molded into the buoy in a tubular section that runs down the center of the buoy.

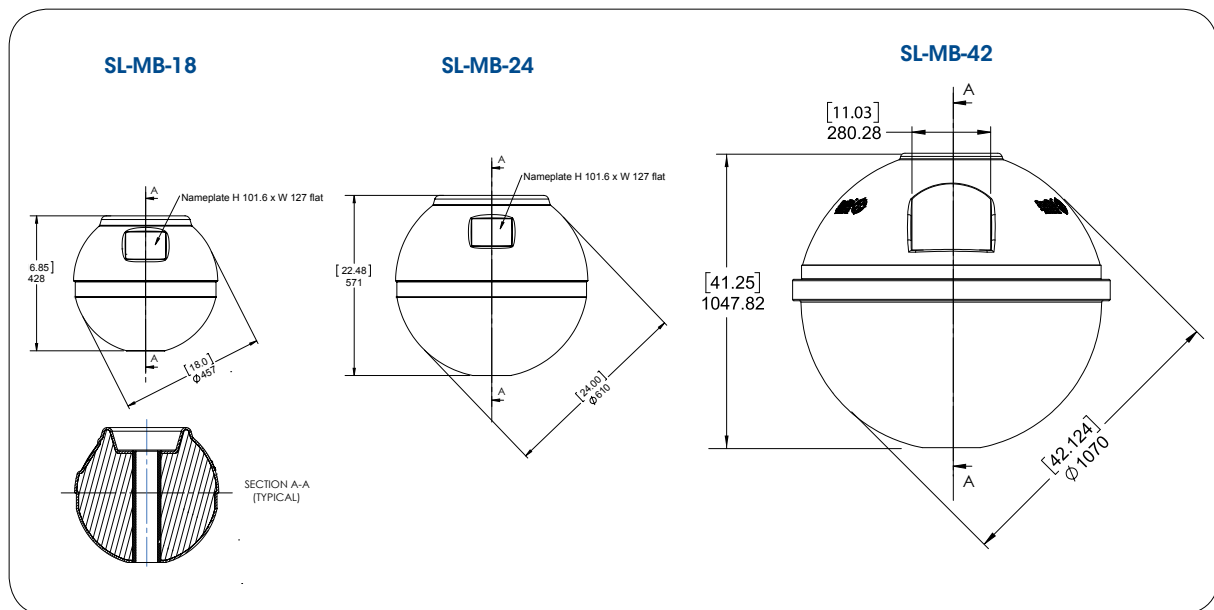
Sealite's Mooring Buoys are available in a range of colors for clear visibility, with an optional reflective band and name plates.



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.





SPECIFICATIONS • *	SL-MB-18	SL-MB-24	SL-MB-42
General Characteristics			
Available Colors	Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations	Red, Green, White, Yellow as per IALA Recommendations
Total Float Volume (US gallon/liters)	12 1/4 / 43.6	28 7/8 / 109.5	169 1/3 / 641
Reserve Buoyancy (lbs/kgs)	36 / 16.5	101 / 46	614 / 278.5
Note: 50% submergence in salt water			
Draft, Maximum (inches/mm)	13 7/8 / 353	18 1/2 / 471	33 1/4 / 845
Freeboard, Minimum (inches/mm)	3 / 75	4 / 100	8 / 204
Submergence (lb/inches, kg/cm)	9 / 1.6	16 / 2.9	49 / 22
Will accommodate chain size up to (inches/mm)	3/8 / 9.5	5/8 / 16	5/8 / 16
Physical Characteristics			
Material	Rotationally-moulded UV-stabilized virgin polyethylene	Rotationally-moulded UV-stabilized virgin polyethylene	Rotationally-moulded UV-stabilized virgin polyethylene
Wall Thickness (inches/mm)	1/4 / 7	1/4 / 7	1/4 / 7
Filling	Closed-cell polyurethane foam	Closed-cell polyurethane foam	Closed-cell polyurethane foam
Height (inches/mm)	16 7/8 / 428	22 1/2 / 571	41 1/4 / 1048
Width (inches/mm)	17 5/8 / 446	23 3/4 / 601	44 1/2 / 1130
Mass (lbs/kg)	13 / 5.9	23 / 10.4	106 / 48
Product Life Expectancy	Up to 12 years	Up to 12 years	Up to 12 years
Certifications			
Quality Assurance	ISO9001:2008	ISO9001:2008	ISO9001:2008
Intellectual Property			
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty •	1 year	1 year	1 year
Options Available	- Graphics - Reflective band - Name plates	- Graphics - Reflective band - Name plates	- Graphics - Reflective band - Name plates

Mooring Buoys

SL-MB 650, SL-MB 1000

SL-MB 1000

The SL-MB 1000 has a 1000mm diameter offering increased visibility & buoyancy in deeper waters

Closed-cell
polyurethane
foam filled

SL-MB 650

Made from strong,
durable, UV-stabilised,
virgin polyethylene

Rotationally-moulded
to 7mm wall
thickness

Large mooring tube

Chain not included
- range of mooring
equipment available

The Sealite Advantage

- High visibility colours
- No painting ever
- Strong, polyethylene construction
- Replaceable mooring tube
- Clear identification with optional graphics
- SL-MB 650: 70kg reserve buoyancy
- SL-MB 1000: 145kg reserve buoyancy

The Sealite range of Mooring Buoys are designed to offer customers long life and are suitable for most locations.

The buoys are available in 650mm and 1000mm diameter. The mooring buoys are rotationally-moulded from UV-stabilised virgin polyethylene to a 7mm wall thickness, and are foam filled with closed-cell polyurethane to prevent water ingress in the unlikely event of damage to the outer layer.

The large mooring tube with 82.5mm ID will accept mooring chain of up to 20mm in diameter. The mooring tube is not moulded into the buoy but slides into a tubular section that runs down the centre of the buoy enabling the tube to be replaced at any stage during the product's service life.

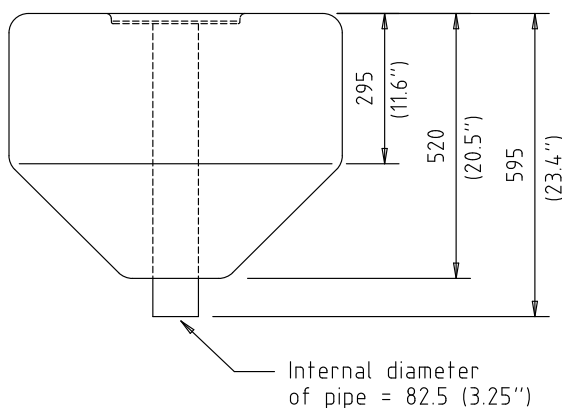
Sealite's SL-MB Mooring Buoys are capable of supporting substantial loads, and are available in a range of colours for clear visibility.



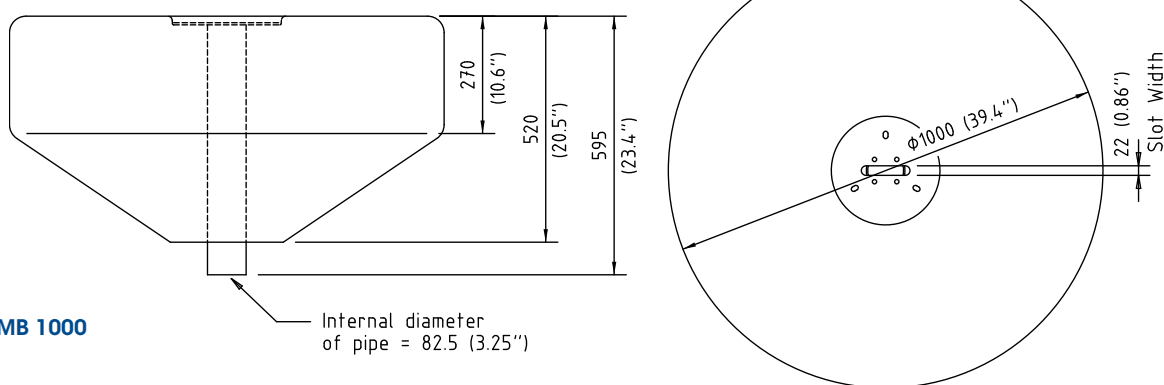
Optional
Mould-in Graphics
Available



SL-MB 650



SL-MB 1000



Maximum chain size: 20.5 mm chain



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

SPECIFICATIONS * *

General Characteristics

Available Colours

Total Float Volume (ltrs/US gallon)
Reserve Buoyancy (kgs/lbs)
Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Submergence (kg/cm, lb/inches)

Physical Characteristics

Material

Wall Thickness (mm/inches)
Filling
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Certifications

IALA

Quality Assurance

Intellectual Property

Trademarks

Warranty *

Options Available

SL-MB 650

Red, Green, White, Yellow as per IALA Recommendations

136 / 36
70 / 154
450 / 17³/₄
145 / 5³/₄
3.4 / 19.1

Rotationally-moulded
UV-stabilised virgin polyethylene
7 / 1/4
Closed-cell polyurethane foam
595 / 23³/₈
650 / 25²/₃
21 / 46
Up to 12 years ^

Surface colours compliant to IALA
E-108
ISO9001:2008

SEALITE® is a registered
trademark of Sealite Pty Ltd
1 year
Custom signage

SL-MB 1000

Red, Green, White, Yellow as per IALA Recommendations

290 / 76.6
145 / 320
450 / 17³/₄
145 / 5³/₄
8.1 / 45.4

Rotationally-moulded
UV-stabilised virgin polyethylene
7 / 1/4
Closed-cell polyurethane foam
595 / 23³/₈
1000 / 39³/₈
35 / 77
Up to 12 years ^

Surface colours compliant to IALA
E-108
ISO9001:2008

SEALITE® is a registered
trademark of Sealite Pty Ltd
1 year
Custom signage



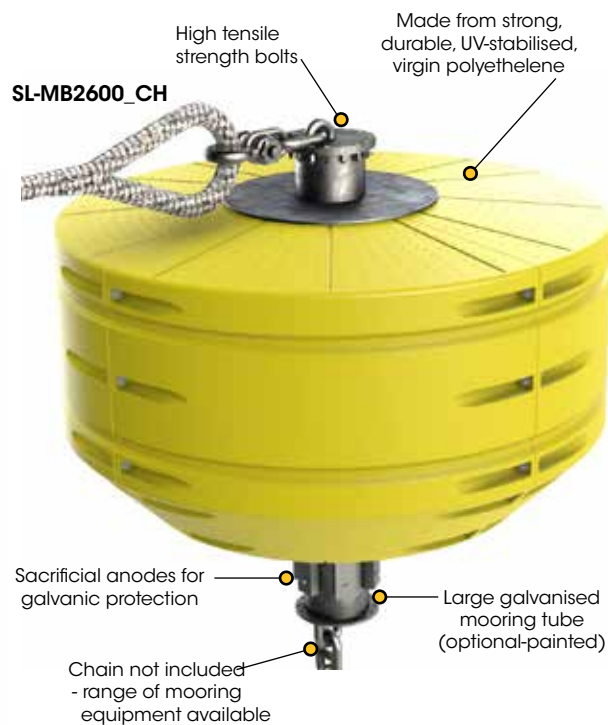
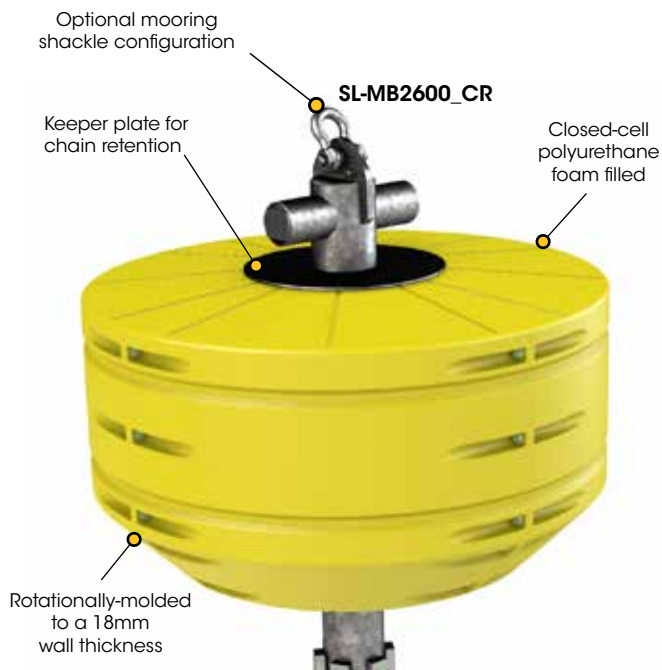
• Specifications subject to change or variation without notice
* Subject to standard terms and conditions
^ Refer to the Sealite website under the warranty section

**Sealite have a range of mooring chains & accessories
- ask your representative today how we can supply your complete mooring solution**

Mooring Buoys

SL-MB2600-CR & SL-MB2600-CH

The SL-MB2600 range has a 2600mm diameter offering increased visibility & buoyancy in deeper waters



The Sealite Advantage

- High visibility colours
- Strong, polyethylene construction
- Replaceable mooring tube
- Clear identification with optional graphics

The Sealite range of SL-MB2600 Mooring Buoys are designed to offer customers long life and are suitable for most locations.

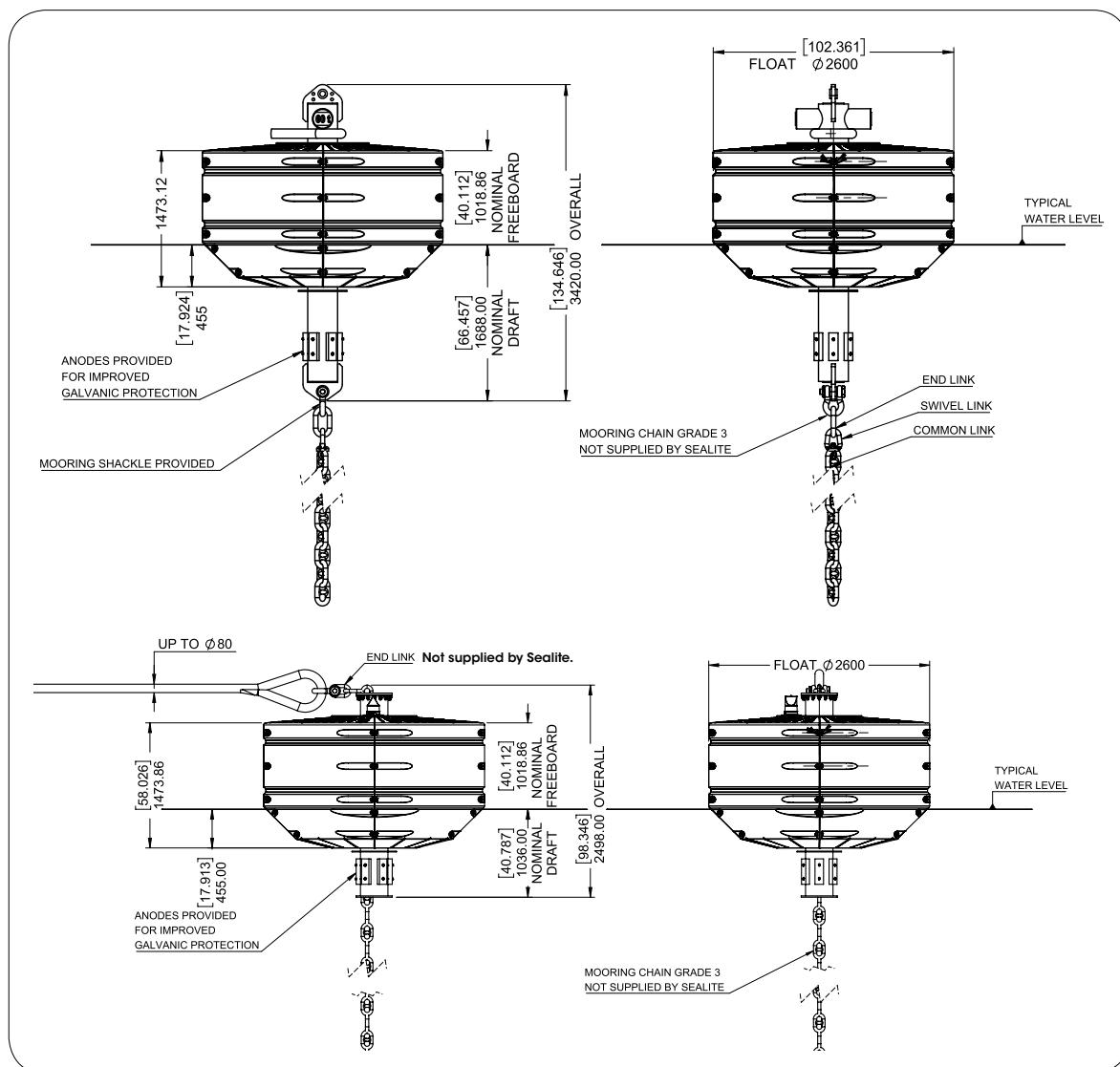
The SL-MB2600 range is available in 2600mm diameter. The mooring buoys are rotationally-moulded from UV-stabilised virgin polyethylene to a 18mm wall thickness, and are foam filled with closed-cell polyurethane to prevent water ingress in the unlikely event of damage to the outer layer.

The mooring tube is not moulded into the buoy but slides into a tubular section that runs down the centre of the buoy enabling the tube to be replaced at any stage during the product's service life.

Sealite's Mooring Buoys are capable of supporting substantial loads, and are available in a range of colours for clear visibility.

The large galvanised mooring tube will accept large links mooring chain.





Environmentally Friendly & Recyclable

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

SPECIFICATIONS *

General Characteristics

Available Colours

Total Float Volume (ltrs/US gallon)
Reserve Buoyancy (kgs/lbs)
Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Submergence (kg/cm, lb/inches)
Maximum Mooring Load (kgs/lbs)

Physical Characteristics

Material

Wall Thickness (mm/inches)
Filling
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)

Certifications

IALA

Quality Assurance

Intellectual Property

Trademarks

Warranty *

SL-MB2600-CR

Red, Green, White, Yellow as per IALA Recommendations

6710 / 1772
5489 / 12101
2600 / 102¹/₃
630 / 24⁴/₅
53 / 296
60000 / 132277

Rotationally-moulded
UV-stabilised virgin polyethylene
High tensile strength steel mooring post
18 / 3/4
Closed-cell polyurethane foam
3420 / 134¹⁵/₃₂
2600 / 102³/₈
1470 / 3241

Surface colours compliant to IALA E-108
ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
1 year

SL-MB2600-CH

Red, Green, White, Yellow as per IALA Recommendations

6710 / 1772
5489 / 12101
2000 / 78³/₄
51 / 2
53 / 296
60000 / 132277

Rotationally-moulded
UV-stabilised virgin polyethylene
High tensile strength steel mooring post
18 / 3/4
Closed-cell polyurethane foam
2498 / 98¹/₃
2600 / 102³/₈
1470 / 3241

Surface colours compliant to IALA E-108
ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
1 year

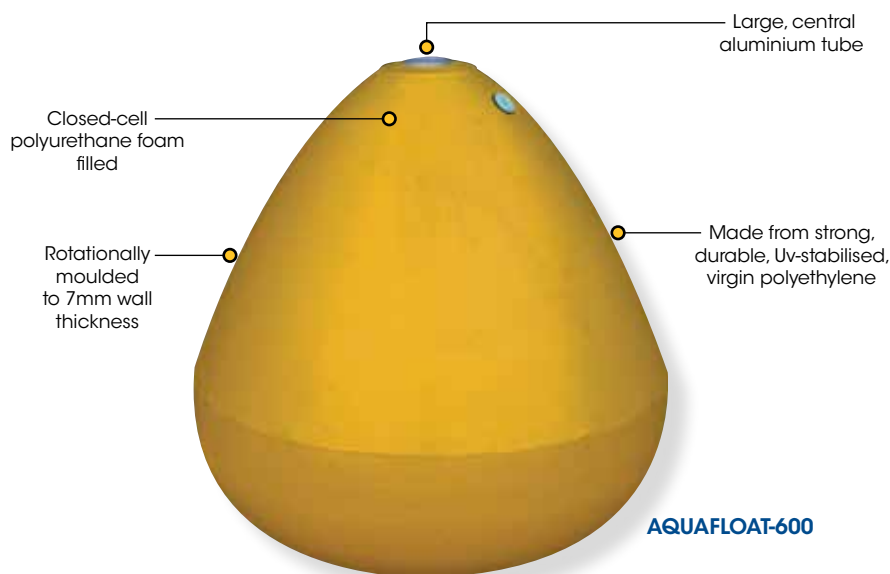


* Specifications subject to change or variation without notice
* Subject to standard terms and conditions

400mm & 600mm dia. Marker Buoys

SL-AQF Series

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution



AQUAFLOAT-600

The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Excellent buoyancy
- No painting
- Eco friendly
- AQUAFLOAT-400: 12.7kg reserve buoyancy
- AQUAFLOAT-600: 40kg reserve buoyancy

Sealite's SL-AQF 600 is a rotationally-moulded marker buoy designed to give customers flexibility in their floating aid requirements.

A large central tube suits a 55mm OD pipe mount, or may be used to aid installations or provide multiple rope anchorage points.

The SL-AQF 600 is polyurethane foam filled to prevent water ingress in the unlikely event of damage, and is offered in all high-visibility IALA colours.

SL-AQF 400 Marker Buoy

Another model in Sealite's Aquafloat range is the SL-AQF 400, rotationally-moulded 400mm diameter marker buoy float. Designed for a range of installations including mooring, dive sites and to mark underwater work, the AQUAFLOAT-400 is available with various fittings to suit many applications.



SL-AQF 400



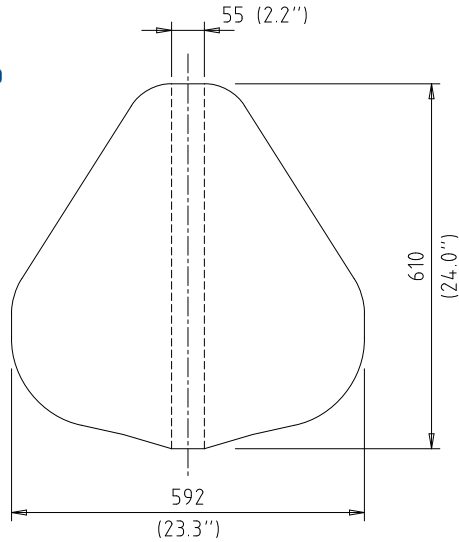
**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

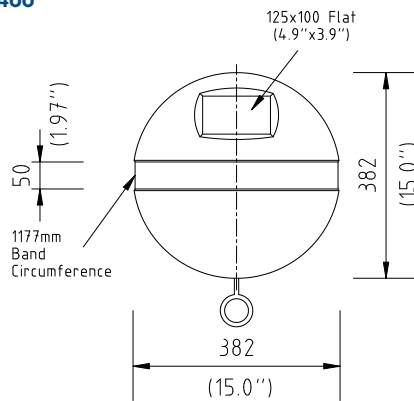


SL-AQF 600 with SL-15 lantern, Maldives

AQUAFLOAT-600



AQUAFLOAT-400



SPECIFICATIONS • *

AQUAFLOAT-600

AQUAFLOAT-400

General Characteristics

Available Colours

Total Float Volume (litres/US gallon)
Total Reserve Buoyancy (kgs/lbs)
Operational Buoyancy (kgs/lbs)
Maximum Mooring Load (kgs/lbs)
Draft, Maximum (mm/inches)
Submergence (kg/cm, lb/inches)

Physical Characteristics

Material

Wall Thickness (mm/inches)

Filling

Height (mm/inches)

Width (mm/inches)

Mass (kg/lbs)

Product Life Expectancy

Certifications

IALA

Quality Assurance

Intellectual Property

Trademarks

Warranty *

Options Available

Red, Green, White, Yellow as per IALA Recommendations

92 / 24

80 / 176

40 / 88

35 / 77

260 / 10¹/₄

2.8 / 15.7

Rotationally-moulded
UV-stabilised virgin polyethylene

7 / ¹/₄

Closed-cell polyurethane foam

610 / 24

592 / 23¹/₃

15 / 33

Up to 12 years ^

Surface colours compliant to IALA
E-108

ISO9001:2008

SEALITE® is a registered trademark
of Sealite Pty Ltd

1 year

• Custom signage

Red, Green, White, Yellow as per IALA Recommendations

29 / 7.7

24 / 53

12.7 / 28

12.7 / 28

360 / 14

1.1 / 6.2

Rotationally-moulded
UV-stabilised virgin polyethylene

7 / ¹/₄

Closed-cell polyurethane foam

382 / 15

382 / 15

4.5 / 10

Up to 12 years ^

Surface colours compliant to IALA
E-108

ISO9001:2008

SEALITE® is a registered trademark
of Sealite Pty Ltd

1 year

• Mooring Eye
• Reflective tape



• Specifications subject to change or variation without notice

* Subject to standard terms and conditions

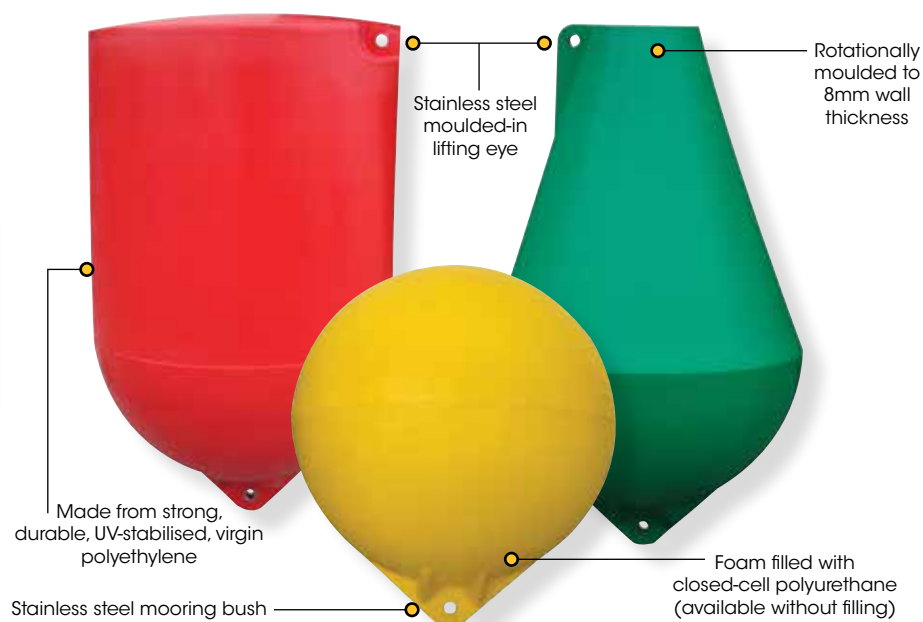
^ Refer to the Sealite website under the warranty section



800mm dia. Marker Buoys

SL-AQF 800 Series

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution



The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Range of mooring equipment & chain available
- Available in three configurations to suit every installation
- Excellent buoyancy & stability
- Mould-in graphics to suit customer requirements



Optional
Mould-in Graphics
Available

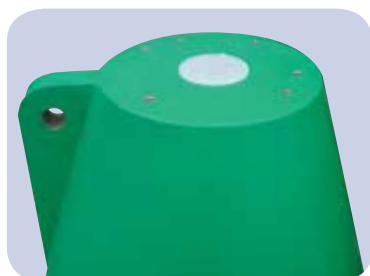
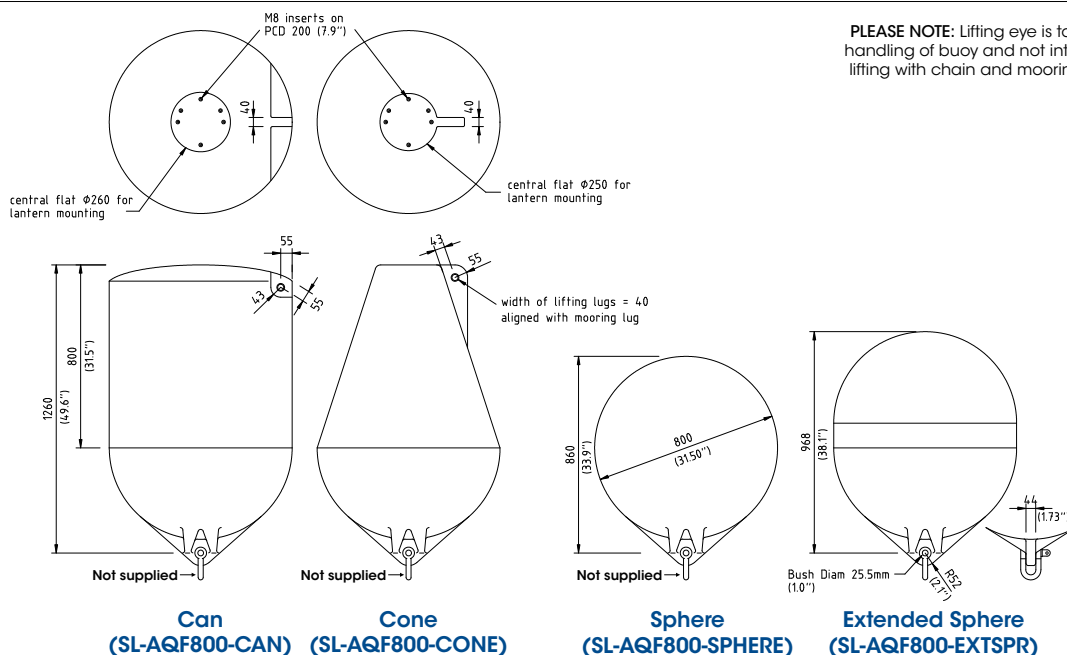
The Sealite SL-AQF 800 is a rotationally-moulded marker buoy series designed as a single piece, low-cost aid to marine navigation. With a large 800mm diameter, these buoys provide clear visibility and can be fitted with a range of marine lanterns.

The SL-AQF 800 series of buoys are available in various configurations to suit IALA requirements, and are rotationally-moulded in high-visibility, UV-stabilised polyethylene.

Moulded inserts on the top section of the float allow for convenient lantern attachment, while the buoys are foam filled with closed-cell polyurethane to prevent water ingress in the unlikely event of damage.

Moulded-in stainless steel lifting eyes in the SL-AQF800-CAN and SL-AQF800-CONE buoys enable ease of maintenance and servicing.





Moulded-in stainless steel lifting eyes in the SL-AQF800-CAN and SL-AQF800-CONE buoys enable ease of maintenance and servicing



SPECIFICATIONS * *

General Characteristics

Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Total Float Volume (lts/US gallon)	800 / 31 1/2 (SL-AQF800-CAN & SL-AQF800-CONE) 400 / 15 3/4 (SL-AQF800-SPHERE & SL-AQF800-EXTSPR)
Total Reserve Buoyancy (kgs/lbs)	494 / 1089 (SL-AQF800-CAN) 280 / 617 (SL-AQF800-CONE) 231 / 470 (SL-AQF800-SPHERE) 286 / 630 (SL-AQF800-EXTSPR)
Operational Buoyancy (kgs/lbs)	108 / 238 (SL-AQF800-CAN, SL-AQF800-CONE & SL-AQF800-SPHERE) 164 / 362 (SL-AQF800-EXTSPR)
Maximum Mooring Load (kgs/lbs)	108 / 238 (SL-AQF800-CAN, SL-AQF800-CONE & SL-AQF800-SPHERE) 164 / 362 (SL-AQF800-EXTSPR)
Draft, Maximum (mm/inches)	510 / 20 (SL-AQF800-CAN, SL-AQF800-CONE & SL-AQF800-SPHERE) 620 / 24 3/8 (SL-AQF800-EXTSPR)
Freeboard, Minimum (mm/inches)	800 / 31 1/2 (SL-AQF800-CAN & SL-AQF800-CONE) 400 / 15 3/4 (SL-AQF800-SPHERE & SL-AQF800-EXTSPR)

Physical Characteristics

Material	Rotationally-moulded UV-stabilised virgin polyethylene
Wall Thickness (mm/inches)	8 / 1/3
Ballast (kg/lbs)	20 / 44
Filling	Closed-cell polyurethane foam
Height (mm/inches)	From 860 / 33 7/8
Width (mm/inches)	800 / 31 1/2
Mass (kg/lbs)	58 / 128 (SL-AQF800-CAN), 48 / 106 (SL-AQF800-CONE), 45 / 99 (SL-AQF800-SPHERE), 46 / 101 (SL-AQF800-EXTSPR)

Product Life Expectancy

Certifications

IALA	Surface colours compliant to IALA E-108
Quality Assurance	ISO9001:2008

Intellectual Property

Trademarks

Warranty *

Lantern Options
Options Available

AQUAFLOAT-800 Series

Red, Green, White, Yellow as per IALA Recommendations	800 / 31 1/2 (SL-AQF800-CAN & SL-AQF800-CONE) 400 / 15 3/4 (SL-AQF800-SPHERE & SL-AQF800-EXTSPR)
494 / 1089 (SL-AQF800-CAN)	280 / 617 (SL-AQF800-CONE) 231 / 470 (SL-AQF800-SPHERE) 286 / 630 (SL-AQF800-EXTSPR)
108 / 238 (SL-AQF800-CAN, SL-AQF800-CONE & SL-AQF800-SPHERE)	164 / 362 (SL-AQF800-EXTSPR)
108 / 238 (SL-AQF800-CAN, SL-AQF800-CONE & SL-AQF800-SPHERE)	164 / 362 (SL-AQF800-EXTSPR)
510 / 20 (SL-AQF800-CAN, SL-AQF800-CONE & SL-AQF800-SPHERE)	620 / 24 3/8 (SL-AQF800-EXTSPR)
800 / 31 1/2 (SL-AQF800-CAN & SL-AQF800-CONE)	400 / 15 3/4 (SL-AQF800-SPHERE & SL-AQF800-EXTSPR)
Rotationally-moulded UV-stabilised virgin polyethylene	8 / 1/3
20 / 44	Closed-cell polyurethane foam
From 860 / 33 7/8	800 / 31 1/2
58 / 128 (SL-AQF800-CAN), 48 / 106 (SL-AQF800-CONE), 45 / 99 (SL-AQF800-SPHERE), 46 / 101 (SL-AQF800-EXTSPR)	Up to 12 years ^

Surface colours compliant to IALA E-108
ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd

1 year

Sealite SL-15, SL-60, SL-70 or SL-75 lantern

• Custom signage



• Specifications subject to change or variation without notice

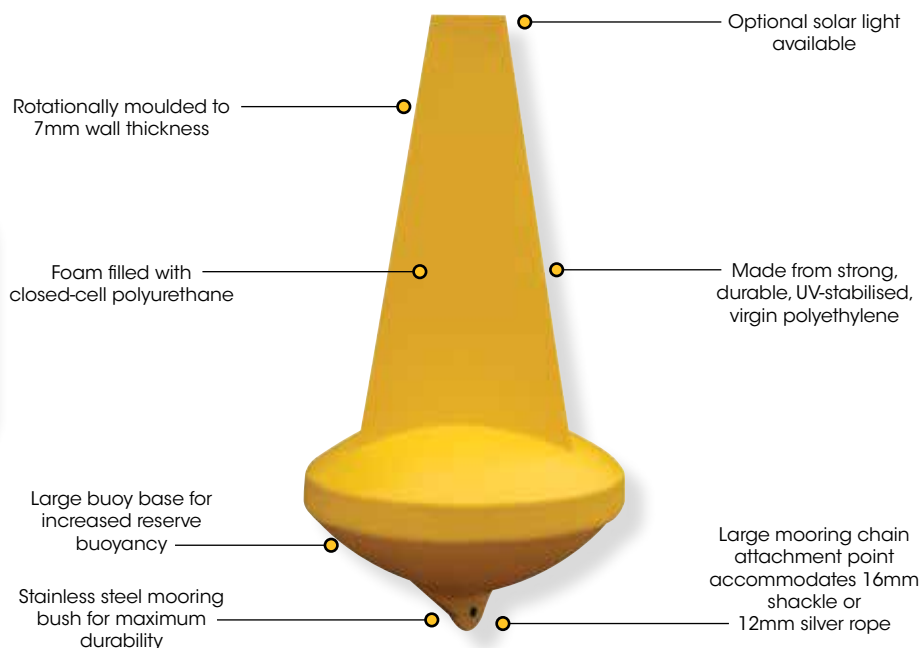
* Subject to standard terms and conditions

^ Refer to the Sealite website under the warranty section

600mm dia. Marker Buoy

SL-B600

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution



The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Range of mooring equipment & chain available
- 16mm shackle or 12mm silver rope attachment point
- Excellent buoyancy & stability
- Mould-in graphics to suit customer requirements

Optional
Mould-in Graphics
Available

The SL-B600 is a short-range buoy ready for immediate installation. Typical applications include day and night channel, speed zone and restricted area marking.

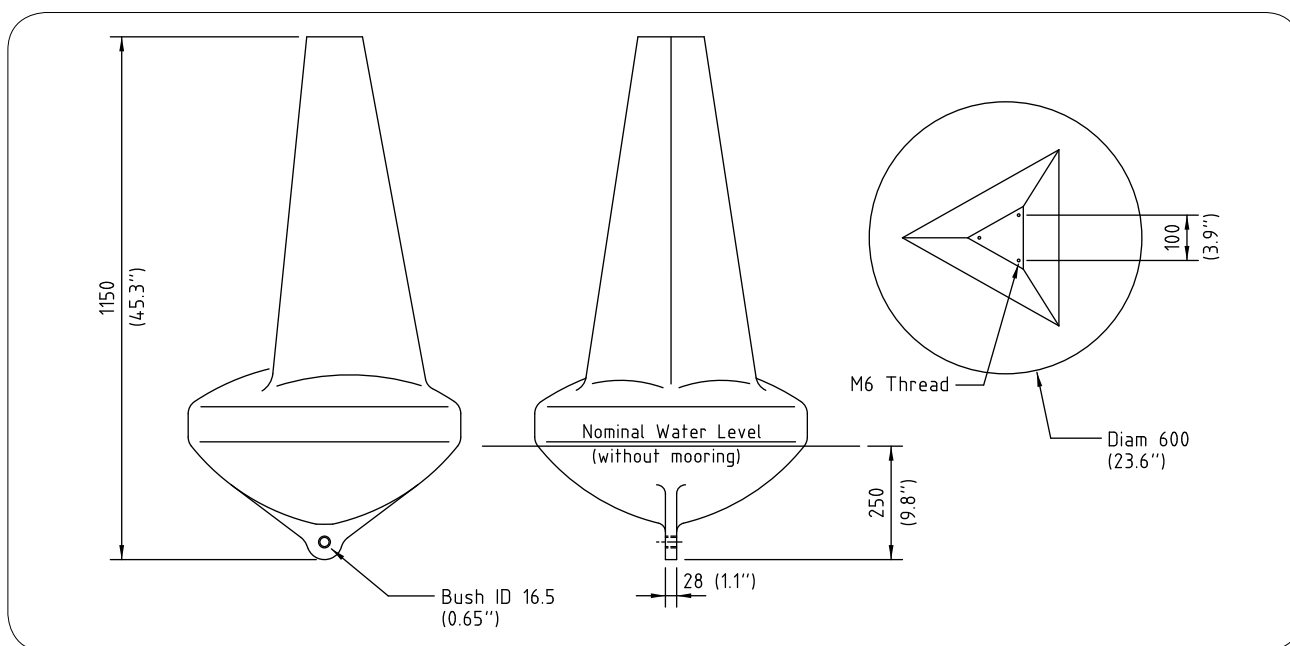
The SL-B600 is extremely long lasting and is moulded from strong, durable, UV-stabilised polyethylene. The large buoy base enables an even greater mooring load, with reserve buoyancy of 26kg (57lbs).

The stainless steel mooring bush is moulded directly into the buoy during manufacture for superior durability and strength. A large mooring chain attachment point accommodates a 16mm shackle or 12mm silver rope.

The complete assembly is only 18.5kg (41lbs) and is available in standard high visibility Yellow, Green, Red and White.

Custom mould-in graphics are also available on request.





Range of mould-in graphics such as "5 Knots" available



Environmentally Friendly & Recyclable

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

SPECIFICATIONS* *

SL-B600

General Characteristics

Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	960 / 37 ³ / ₄
Total Float Volume (ltrs/US gallon)	90 / 24
Nominal Freeboard (mm/inches)	160 / 6 ¹ / ₈
Nominal Draft (mm/inches)	250 / 9 ⁷ / ₈
Total Reserve Buoyancy (kgs/lbs)	74 / 163
Operational Buoyancy (kgs/lbs)	26 / 57
Maximum Mooring Load (kgs/lbs)	26 / 57
Draft, Maximum (mm/inches)	335 / 13 ¹ / ₈
Freeboard, Minimum (mm/inches)	70 / 2 ³ / ₄
Submergence (kg/cm, lb/inches)	2.8 / 15.8

Physical Characteristics

Material	Rotationally-moulded UV-stabilised virgin polyethylene
Wall Thickness (mm/inches)	7 / 1/4
Ballast (kg/lbs)	6 / 13 internal concrete
Filling	Closed-cell polyurethane foam
Height (mm/inches)	1150 / 45 ¹ / ₈
Width (mm/inches)	600 / 23 ⁵ / ₈
Mass (kg/lbs)	18.5 / 41
Product Life Expectancy	Up to 12 years ^

Certifications

IALA	Surface colours compliant to IALA E-108
Quality Assurance	ISO9001:2008

Intellectual Property

Trademarks

Warranty *

Lantern Options Options Available

SEALITE® is a registered trademark of Sealite Pty Ltd
1 year

Sealite SL-15, SL-60 or SL-70 lantern

- Custom signage
- Integrated light mount top section (SL-B601)

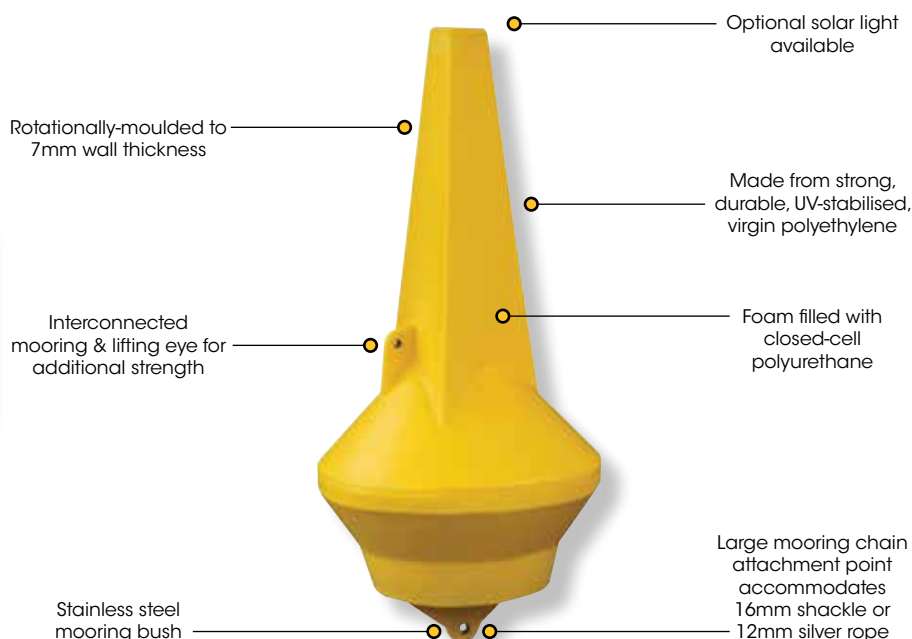


- Specifications subject to change or variation without notice
- * Subject to standard terms and conditions
- ^ Refer to the Sealite website under the warranty section

700mm dia. Marker Buoy

SL-B700

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution



The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Range of mooring equipment & chain available
- Excellent buoyancy & stability
- Mould-in graphics to suit customer requirements



Regulatory Style Available

The SL-B700 is a short-range buoy ready for immediate installation. Typical applications include day and night channel, speed zone, restricted area marking and aquaculture.

The SL-B700 is extremely long-lasting, and is moulded in strong, durable, UV-stabilised polyethylene. A large mooring chain attachment point accommodates a 16mm shackle or 12mm silver rope.

The SL-B700 incorporates an interconnected mooring and lifting eye for additional strength and flexibility in installation. The top section has 3 threaded studs, moulded into the buoy to enable easy mounting of either the SL-15, SL-60 or SL-70 1-3NM+ solar lights.

The SL-B700 can be economically shipped around the globe, with approximately 105pcs and 210pcs being packed in 20ft and 40ft shipping containers respectively.



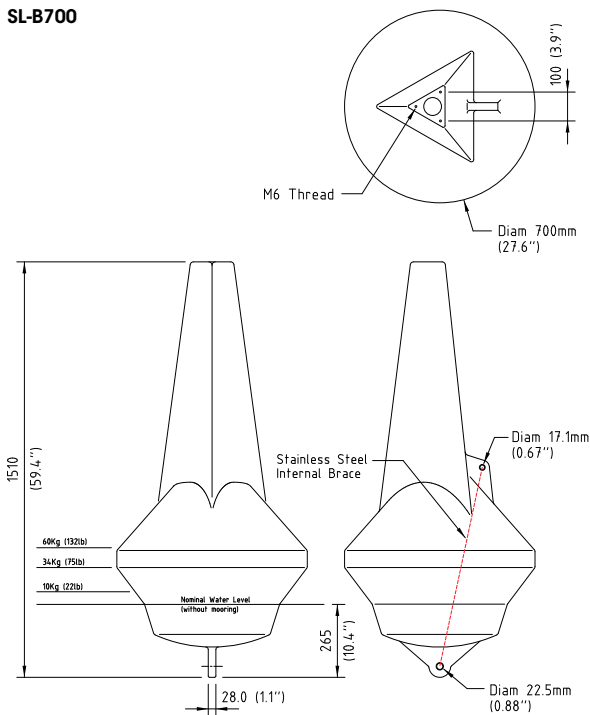
Environmentally Friendly & Recyclable

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

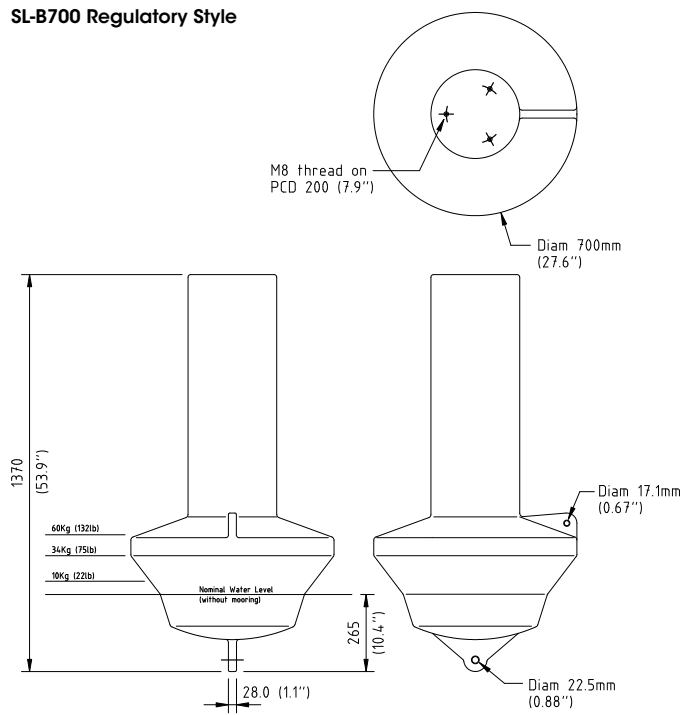


SL-B700 Regulatory Style Buoys, Emirates Palace Hotel, Abu Dhabi

SL-B700



SL-B700 Regulatory Style



Optional
Mould-in Graphics
Available

SPECIFICATIONS • *

General Characteristics

Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	1305 / 51 ³ / ₈
Total Float Volume (lts/US gallon)	170 / 45
Nominal Freeboard (mm/inches)	408 / 16
Nominal Draft (mm/inches)	223 / 8 ³ / ₄
Total Reserve Buoyancy (kgs/lbs)	132 / 291
Operational Buoyancy (kgs/lbs)	60 / 132
Maximum Mooring Load (kgs/lbs)	60 / 132
Draft, Maximum (mm/inches)	470 / 18 ¹ / ₂
Freeboard, Minimum (mm/inches)	160 / 6 ¹ / ₄
Safe Working Load, 1 pt (kg/lbs)	135 / 298
Submergence (kg/cm, lb/inches)	3.8 / 21.6

Physical Characteristics

Material	Rotationally-moulded UV-stabilised virgin polyethylene.
Wall Thickness (mm/inches)	7 / 1/4
Ballast (kg/lbs)	20 / 44 internal concrete
Filling	Closed-cell polyurethane foam
Height (mm/inches)	1510 / 59 ³ / ₈
Width (mm/inches)	700 / 27 ¹ / ₂
Mass (kg/lbs)	38 / 84
Product Life Expectancy	Up to 12 years ^

Certifications

Quality Assurance

Intellectual Property

IALA

Trademarks

Warranty *

Lantern Options

Options Available

SL-B700

Red, Green, White, Yellow as per IALA Recommendations
1305 / 51 ³ / ₈
170 / 45
408 / 16
223 / 8 ³ / ₄
132 / 291
60 / 132
60 / 132
470 / 18 ¹ / ₂
160 / 6 ¹ / ₄
135 / 298
3.8 / 21.6

Rotationally-moulded UV-stabilised virgin polyethylene.
7 / 1/4
20 / 44 internal concrete
Closed-cell polyurethane foam
1510 / 59 ³ / ₈
700 / 27 ¹ / ₂
38 / 84
Up to 12 years ^

ISO9001:2008

Surface colours compliant to IALA E-108

SEALITE® is a registered trademark of Sealite Pty Ltd

1 year

Sealite SL-15, SL-60 or SL-70 lantern

- Custom signage
- Regulatory Style



• Specifications subject to change or variation without notice

* Subject to standard terms and conditions

^ Refer to the Sealite website under the warranty section



750mm dia. Marker Buoy

suited to fast water — SL-B750

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution

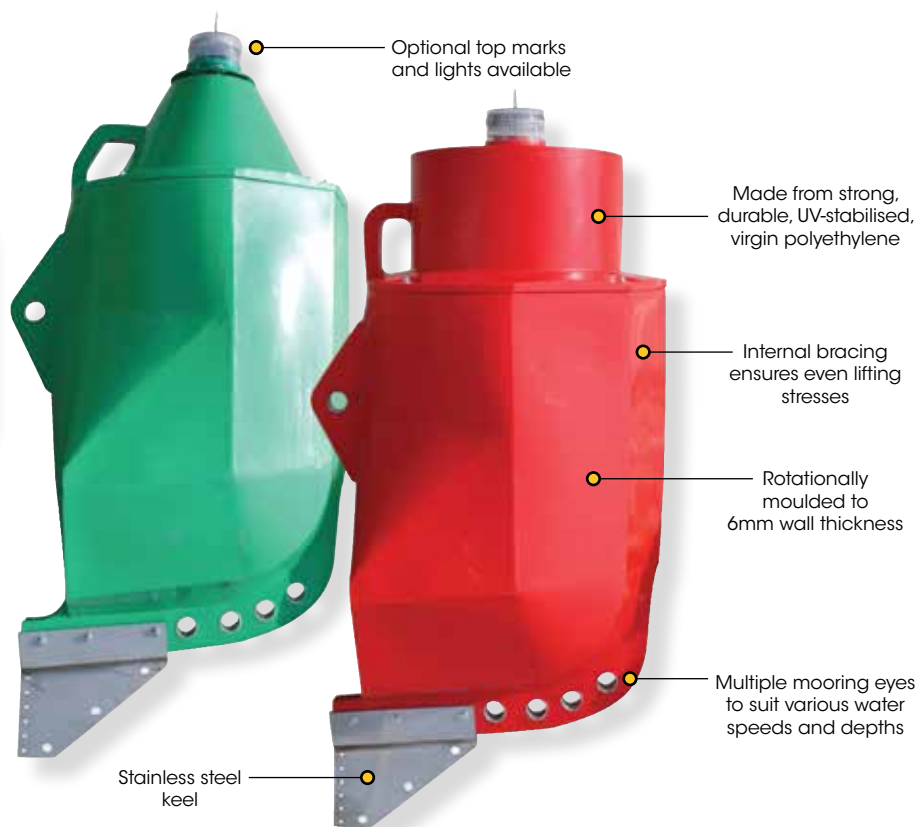
The Sealite Advantage

- Single piece float
- Complete unit - ready for immediate installation
- Unique design suitable for fast water currents
- High visibility red, green, white or yellow as per IALA recommendations
- 316-grade moulded-in tie bar provides outstanding lifting strength
- Excellent buoyancy & stability
- Suitable for up to 6 knots



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.



The Sealite SL-B750 is a large 750mm dia. marker buoy designed for a variety of applications and is particularly suited to fast water currents up to 6 knots.

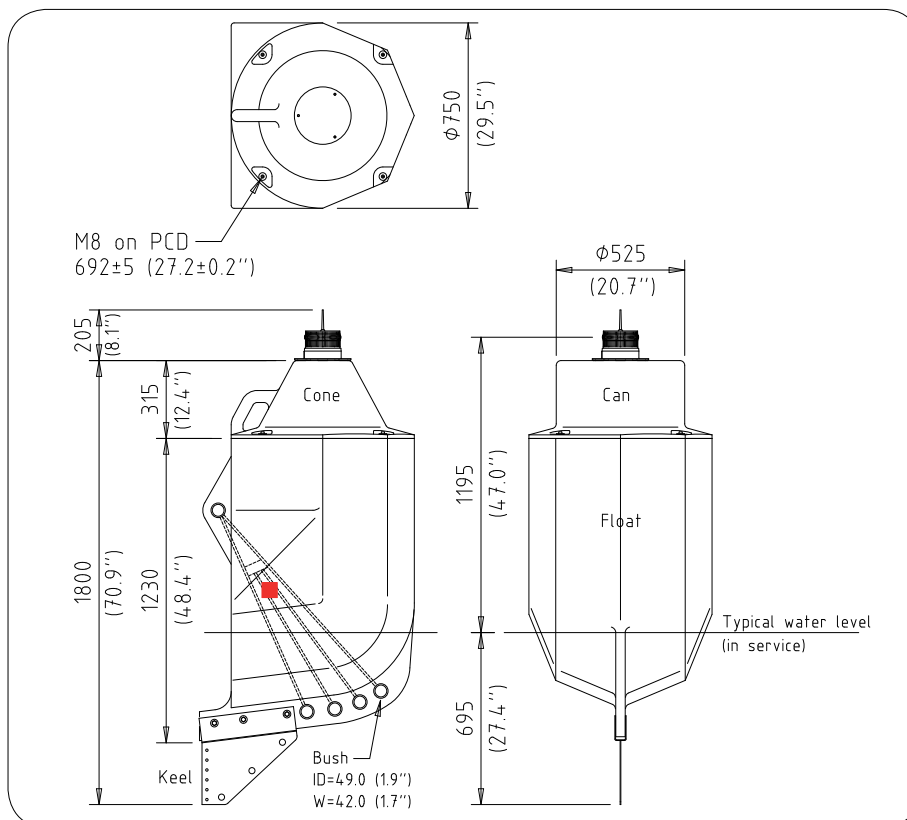
The unique, one piece float section has an internally integrated bow and keel which ensures the buoy remains stable during fast currents.

The SL-B750 is rotationally-moulded from UV-stabilised, virgin polyethylene in a range of IALA recommended configurations and colours to ensure clear visibility, and may be fitted with a Sealite LED lantern for safe night navigation.

The SL-B750 has multiple mooring eyes and counterweight mooring points to facilitate correct operation over varying water depths and speeds up to 6 knots.



Stainless steel keel ensures buoy remains stable in faster water currents



SPECIFICATIONS*

SL-B750

General Characteristics

Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	1195 / 147
Total Float Volume (litres/US gallon)	412 / 109
Total Reserve Buoyancy (kgs/lbs)	360 / 794
Operational Buoyancy (kgs/lbs)	24 / 53
Maximum Mooring Load (kgs/lbs)	24 / 53
Draft, Maximum (mm/inches)	695 / 27 1/2
Freeboard, Minimum (mm/inches)	790 / 31 1/8
Safe Working Load, 1pt (kg/lbs)	1000 / 2205

Physical Characteristics

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

Certifications

IALA	Surface colours compliant to IALA E-108
Quality Assurance	ISO9001:2008

Intellectual Property

Trademarks

Warranty*

Lantern Options Options Available

Red, Green, White, Yellow as per IALA Recommendations
1195 / 147
412 / 109
360 / 794
24 / 53
24 / 53
695 / 27 1/2
790 / 31 1/8
1000 / 2205

Rotationally-moulded UV-stabilised virgin polyethylene
6 / 1/4
20 / 44
Closed-cell polyurethane foam (float section)
2005 / 78 7/8
750 / 29 1/2
64 / 141
Up to 12 years ^

Surface colours compliant to IALA E-108
ISO9001:2008

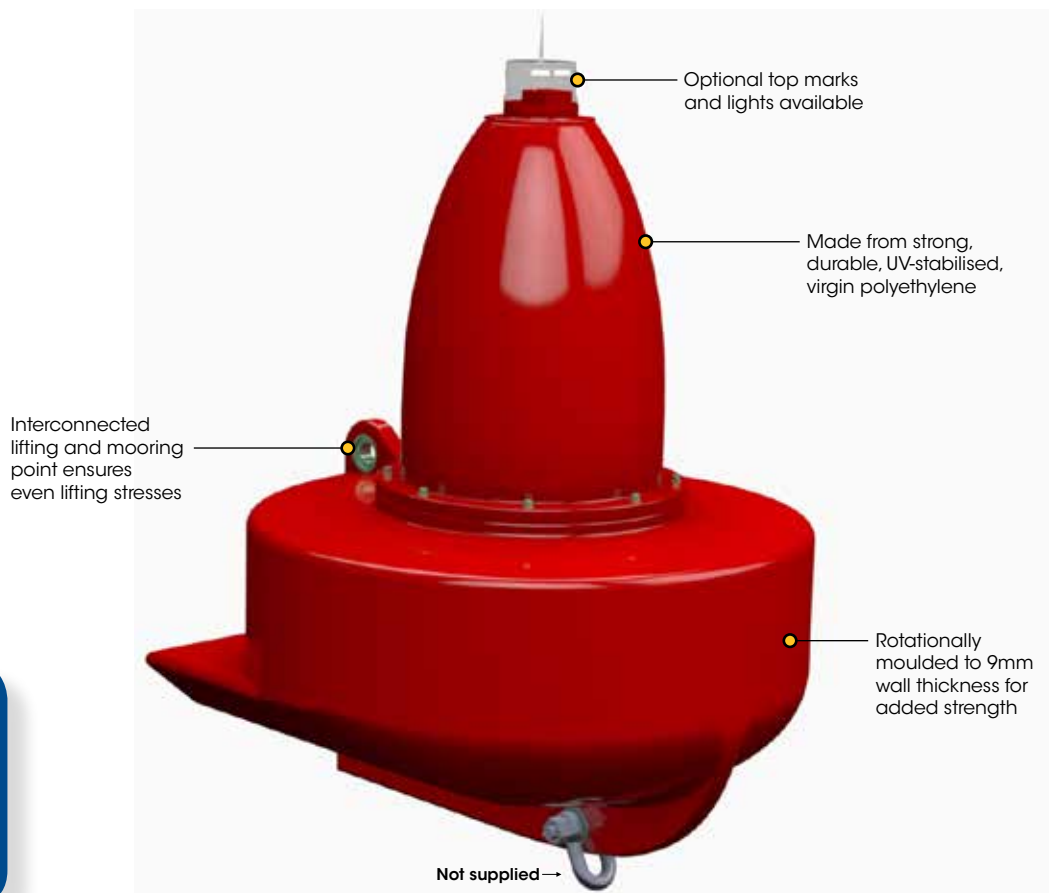
SEALITE® is a registered trademark of Sealite Pty Ltd
1 year
Sealite SL-15, SL-60 or SL-70 lantern
• Custom signage



- * Specifications subject to change or variation without notice
- * Subject to standard terms and conditions
- ^ Refer to the Sealite website under the warranty section

1200mm dia. Navigation Buoy

SL-B1200-FW - suited to fast water



Sealite have a range of mooring chains & accessories

Ask your representative today how we can supply your complete mooring solution

The Sealite Advantage

- Single piece float with a 316-grade stainless steel tie-bar integrated to provide outstanding strength
- Unique boat hull design suitable for fast flowing water currents up to 8 knots
- 1200mm diameter shape for excellent visibility and stability
- Complete unit - ready for immediate installation
- High visibility red, green, white or yellow as per IALA recommendations
- Rotationally moulded to 9mm wall thickness for added strength
- Excellent buoyancy



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

The Sealite SL-B1200-FW is a large 1200mm dia. navigation buoy designed for rivers, ports and harbours and estuaries with fast flowing water current of up to 8 knots

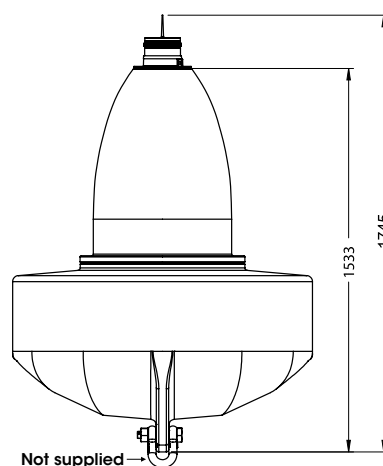
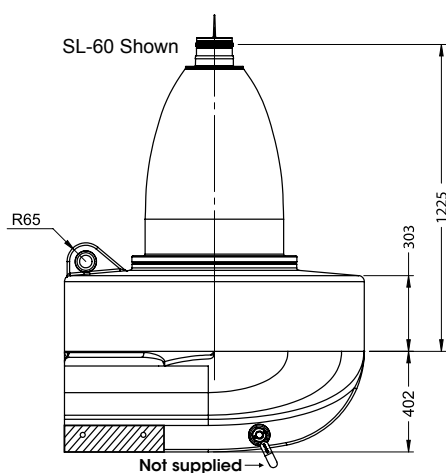
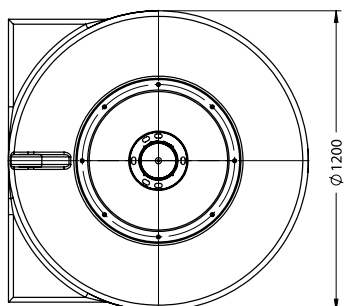
Designed using a traditional navigation buoy shape above the water line and incorporating the shape of a boat hull on the bottom, the SL-B1200-FW remains extremely stable and buoyant in fast and rough conditions. Its unique design incorporating an integrated bow and keel, allows the SL-B1200-FW to create lift as the water flows underneath it, enabling the buoy to rise and sit higher on the surface of the water creating more stability and allowing it to support a heavier payload.

The single piece float section has a integrated 316-stainless steel tie -bar to provide exceptional strength and safe working load for lifting (one lifting eye) of 2300kgs.

The 1200mm buoy is rotationally moulded from UV-stabilised, virgin polyethylene to 9mm wall thickness to provide additional strength.

The fast water buoy comes in a range of IALA recommended configurations and colours for excellent visibility and is developed to support a variety of marine lanterns.





SPECIFICATIONS * *

SL-B1200-FW

General Characteristics

Available Colours
Focal Plane Height (mm/inches)
Total Float Volume (ltrs/US gallon)
Total Reserve Buoyancy (kgs/lbs)
Operational Buoyancy (kgs/lbs)
Maximum Mooring Load (kgs/lbs)
Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Safe Working Load, 1pt (kg/lbs)

Red, Green, White, Yellow as per IALA Recommendations
1225 / 48
615 / 162.5
473 / 1043
78 / 172
78 / 172
402 / 15⁵³/₆₄
300/ 11.8
2300/ 5070

Physical Characteristics

Material
Wall Thickness (mm/inches)
Ballast (kg/lbs)
Filling
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Rotationally-moulded UV-stabilised virgin polyethylene
9 / ³/₈
55 / 121.3 (Internal)
Closed-cell polyurethane foam (float section)
1745 / 68
1200 / 47¹/₄
142 / 313
Up to 12 years ^

Certifications

IALA
Quality Assurance

Surface colours compliant to IALA E-108
ISO9001:2008

Intellectual Property

Trademarks

Warranty *

Lantern Options
Options Available

SEALITE® is a registered trademark of Sealite Pty Ltd
5 year
Sealite SL-15, SL-60, SL-70, SL-75 lantern
• Custom signage

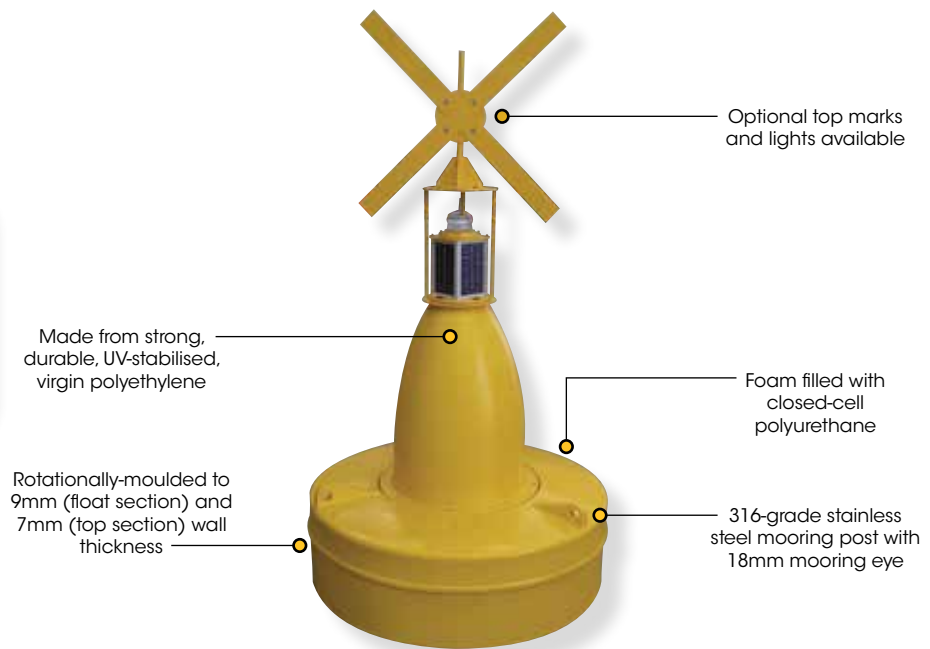
• Specifications subject to change or variation without notice
* Subject to standard terms and conditions
^ Refer to the Sealite website under the warranty section



1250mm dia. Navigation Buoy

SL-B1250

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution



The Sealite Advantage

- Single piece float
- Complete unit - ready for immediate installation
- High visibility red, green, white or yellow as per IALA recommendations
- 316-grade stainless steel eye bolt for strong mooring chain attachment point
- Excellent buoyancy & stability

Optional
Mould-in Graphics
Available



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

The SL-B1250, 1250mm dia. Navigation Buoy, has proven its superior performance in many parts of Australia and around the world for long-range river and sea navigation.

The base is moulded in one-piece, strong, coloured, durable polyethylene – filled with closed-cell polyurethane and UV-stabilised for resistance to sunlight.

The strong, lightweight polyethylene buoy top is moulded in standard IALA high visibility colours and shapes to suit a range of installation requirements.

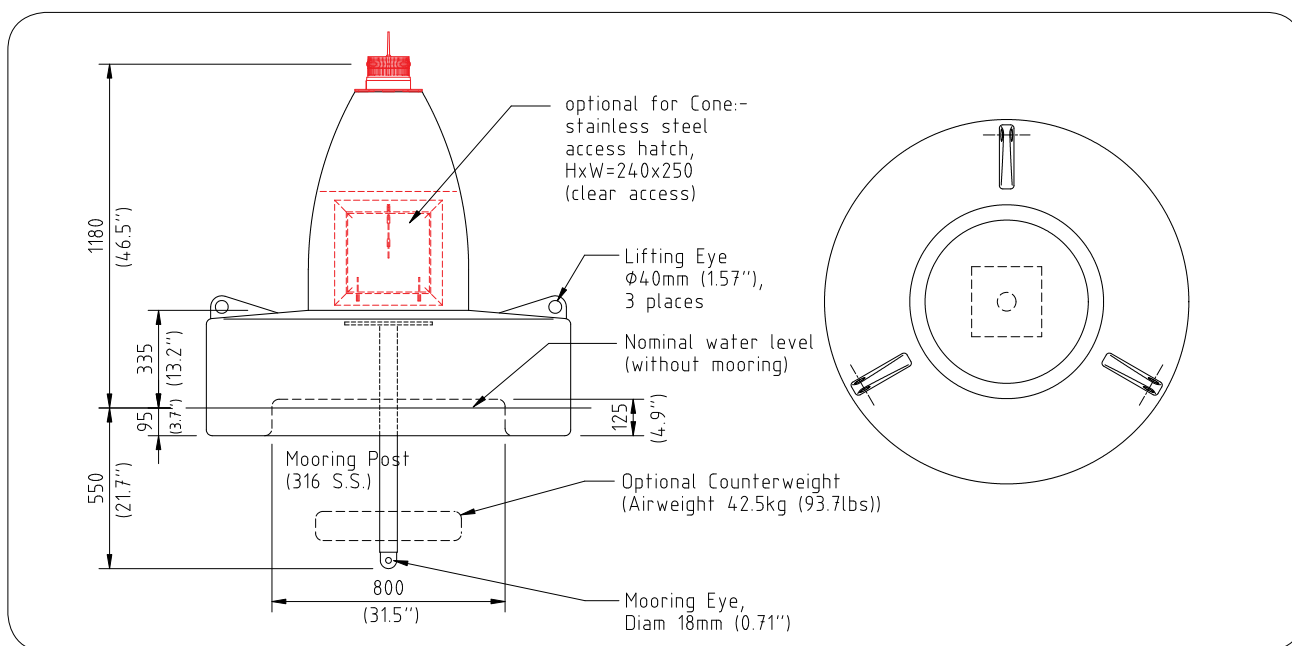
For superior night visibility, the SL-B1250 navigation buoy may be fitted with a range of Sealite solar LED marine lanterns up to 5NM+.

Brass inserts provide a secure mounting for top, tower and signs. A 316-grade stainless steel eyebolt passes through the base providing a strong mooring chain attachment point.

In addition, all hardware and fittings are 316-grade stainless steel.



Kingdom of Bahrain



Manila, Philippines installation



SPECIFICATIONS* * SL-B1250

General Characteristics

Available Colours
Focal Plane Height (mm/inches)
Total Float Volume (ltrs/US gallon)
Nominal Freeboard (mm/inches)
Nominal Draft (mm/inches)
Total Reserve Buoyancy (kgs/lbs)
Operational Buoyancy (kgs/lbs)
Maximum Mooring Load (kgs/lbs)
Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Submergence (kg/cm, lb/inches)
Visual Area (m²/ft²)

Red, Green, White, Yellow as per IALA Recommendations
1180 / 46¹/₂
610 / 161
335 / 13¹/₈
550 / 21²/₃
558 / 1230
155 / 342
155 / 342
675 / 26²/₃
210 / 8¹/₃
12.5 / 70
0.8 / 8.6

Physical Characteristics

Material

Wall Thickness (mm/inches)
Ballast (kg/lbs)
Filling
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

Rotationally-moulded UV-stabilised virgin polyethylene,
316-grade stainless steel mooring pole
9 / 3³/₈ (float section). 7 / 1¹/₄ (top section)
30 / 66 external counter-weight (optional)
Closed-cell polyurethane foam (float section)
1180 / 46¹/₂
1250 / 49¹/₄
70 / 154
Up to 12 years ^

Certifications

IALA
Quality Assurance

Intellectual Property

Trademarks

Warranty *

Lantern Options
Options Available

Surface colours compliant to IALA E-108
ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
1 year
Sealite SL-15, SL-60, SL-70, SL-75 or SL-C310 lantern
• Custom signage
• Sealite IALA recommended top marks
• External ballast
• Radar reflector
• Access hatch
• Solar power supplies

^ Refer to the Sealite website under the warranty section



Available in a range of IALA colours and configurations, optional mould-in graphics and with a wide range of IALA recommended top marks

1400mm dia. Navigation Buoy

TRIDENT-1400

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution

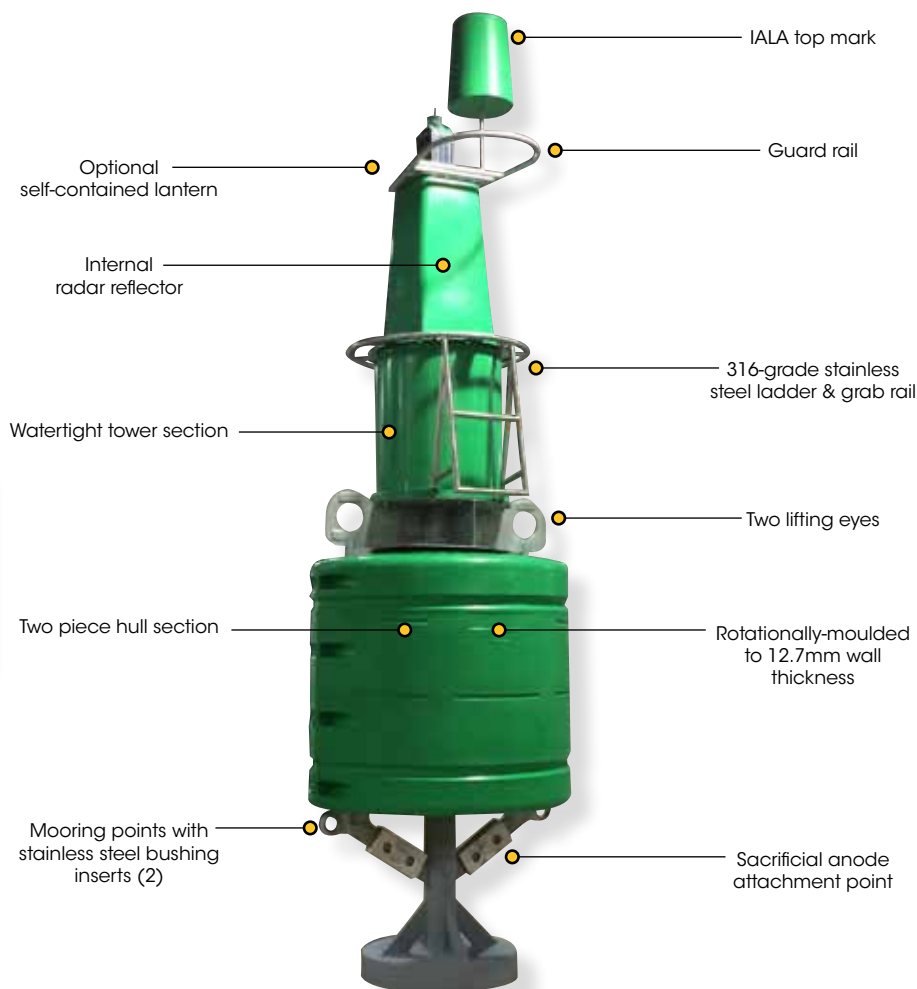
The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- 1.4mtr diameter
- Robust construction of 2 piece hull section
- Lightweight
- Excellent buoyancy & stability
- Easy to deploy & service
- Free-standing mooring post with ballast for easy storage & shipping
- Float & mooring assembly stand upright in a high cube container
- No painting
- Cost effective & environmentally friendly



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.



The TRIDENT-1400 is a rotationally-moulded navigation buoy with a float diameter of 1.4 meters and lantern focal height of at least 2.7 meters.

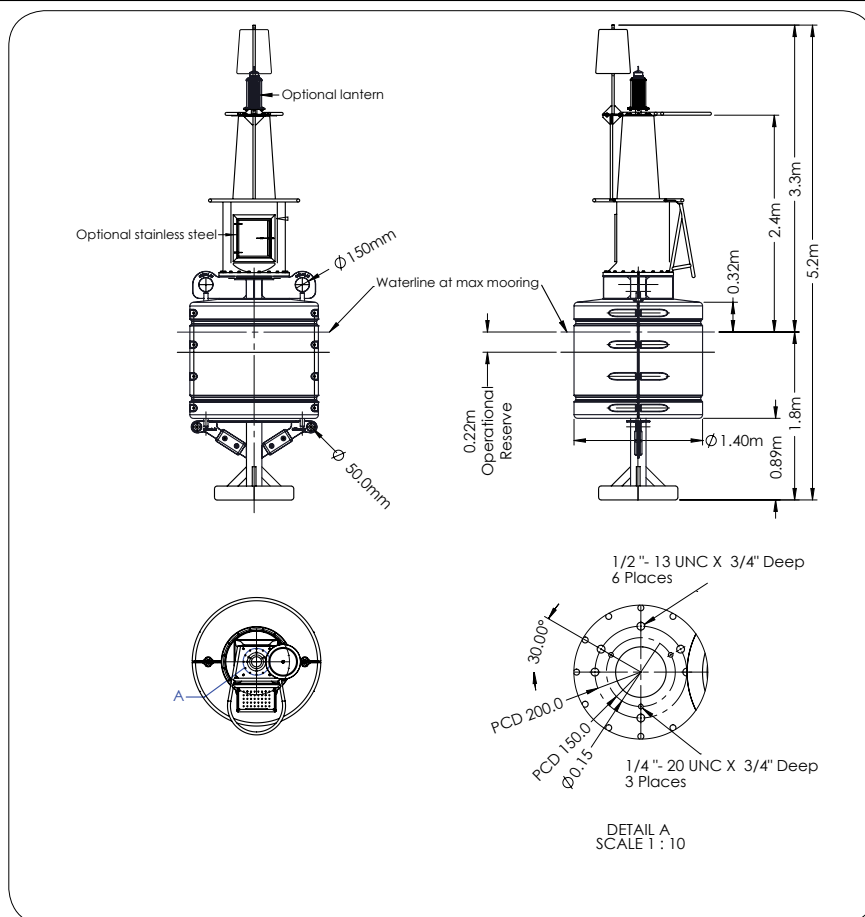
The float section of the TRIDENT-1400 is built from two (2) rotationally-moulded sections, which fasten together to form an incredibly robust 1.4 meter wide float section. Each hull section is moulded from UV-stabilized, virgin polyethylene, and has a 13mm wall thickness. Each section is filled with closed-cell polyurethane, which prevents the ingress of moisture in the unlikely event of damage.

The poly-tower design provides a huge visual area for navaid recognition, and consists of a sealed, rotationally-moulded tower section. The tower incorporates an internal radar reflector and lantern attachment points.

A galvanised steel mooring post runs through the centre of the assembly, to which the tower section is fastened. An integrated ladder runs vertically up the tower to the top of the platform and two large lifting eyes aid in buoy mooring and periodic servicing.

The TRIDENT-1400 can be supplied in all IALA colours.





SPECIFICATIONS * *

TRIDENT-1400

General Characteristics

Available Colours
Focal Plane Height (mm/inches)
Total Float Volume (ltrs/US gallon)
Nominal Freeboard (mm/inches)
Nominal Draft (mm/inches)
Total Reserve Buoyancy (kgs/lbs)
Operational Buoyancy (kgs/lbs)
Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Safe Working Load, lift (kgs/lbs)
Safe Mooring Load, (kgs/lbs)
Submergence (kg/cm, lb/inches)
Visual Area (m²/ft²)
Water Area (m²/ft²)

Mooring Details

Minimum recommended anchor size (kg/lbs)
Recommended mooring mass (kg/lbs)

Physical Characteristics

Material

Wall Thickness (mm/inches)
Ballast (kg/lbs)
Filling
Overall Height (mm/inches)
Width (mm/inches)
Mass with Ballast(kg/lbs)
Radar Reflector
Product Life Expectancy

Certifications

Quality Assurance

Intellectual Property

Trademarks

Warranty *

Lantern Options

Options Available

Red, Green, White, Yellow as per IALA Recommendations
2700 / 106¼ (nominal)
1888 / 498
540 / 21¼
1580 / 62¼
1028 / 2266
570 / 1256
1800 / 707/8
320 / 125/8
4000 / 8818 (per eye)
2400 / 5290 (per mooring point)
15 / 84
2.4 / 25.8 (nominal)
1.3 / 14.0

Wet weight: 1300 / 2866

Minimum: 250 / 551
Maximum: 600 / 1323

Rotationally-moulded UV-stabilized virgin polyethylene float section, tower assembly and top marks.
316-grade stainless steel fixtures.

13 / ½
490 / 1080 (external steel)
Closed-cell polyurethane foam (float section)
5200 / 204¾
1400 / 551/8
907 / 2000 (depending on payload)
Echomax EM230
>20 years ^

ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
5 years

Sealite SL-75, SL-C310, SL-C410, SL-C415, SL-C420, SL-125 Series or SL-155 Series

- Custom signage
- Monitoring Systems (AIS, GSM)
- Solar power supplies



* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
^ Refer to the Sealite website under the warranty section



1500mm dia. Navigation Buoy

SL-B1500

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution



The Sealite Advantage

- Single piece float
- Complete unit - ready for immediate installation
- High visibility red, green, white or yellow as per IALA recommendations
- 316-grade moulded-in tie bar provides outstanding lifting strength and corrosion protection
- Excellent buoyancy & stability
- Replaceable mooring bush inserts

Optional
Mould-in Graphics
Available



Environmentally
Friendly &
Recyclable

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

Sealite's SL-B1500 is an extremely robust, high visibility 1500mm dia. navigation buoy perfect for a variety of installations including inland waterways, harbour and coastal nav aids.

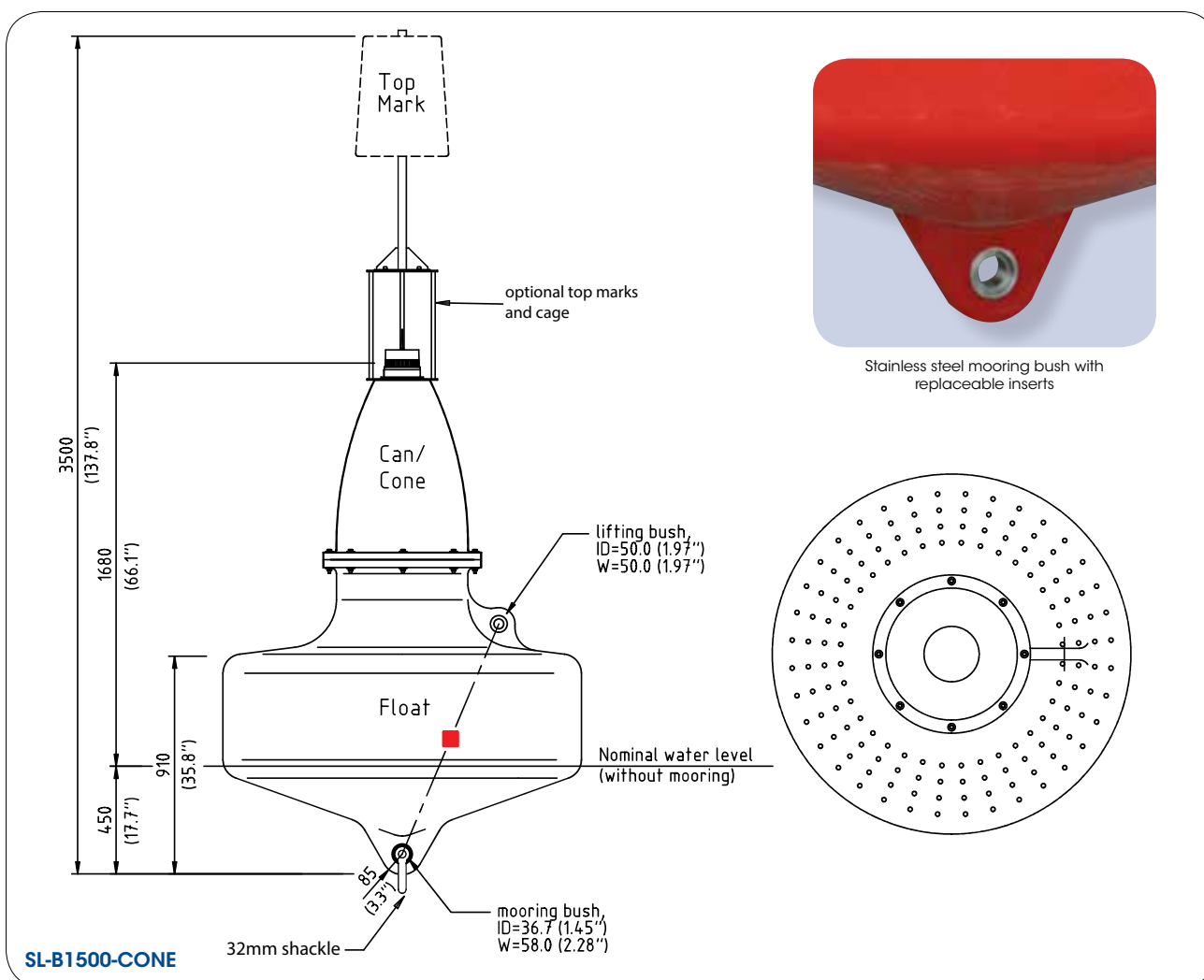
The SL-B1500 has a one-piece, rotationally-moulded float section which incorporates an internal stainless steel brace that is linked between the lifting and mooring eyes. This brace ensures even stresses across the buoy during lifting, creating an incredibly robust AtoN with a service life of up to 20 years.

The top section of the buoy is also rotationally-moulded from UV-stabilised, virgin polyethylene, and can be fitted with top marks and lantern to suit any IALA recommended buoy configuration required. The buoy has direct lantern attachment points for a variety of Sealite solar lights.

Polyethylene buoys require minimal maintenance; they never have to be painted, and the polyethylene inhibits marine growth therefore increasing the interval between servicing. The lightweight but strong polyethylene also means routine maintenance may be performed onsite.

The SL-B1500 is environmentally-friendly and recyclable.





SPECIFICATIONS * SL-B1500

General Characteristics

Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	1680 / 66 ¹ / ₈
Total Float Volume (ltrs/US gallon)	1120 / 296
Nominal Freeboard (mm/inches)	460 / 18 ³ / ₈
Nominal Draft (mm/inches)	450 / 17 ³ / ₄
Total Reserve Buoyancy (kgs/lbs)	933 / 2056
Operational Buoyancy (kgs/lbs)	280 / 617
Maximum Mooring Load (kgs/lbs)	280 / 617
Draft, Maximum (mm/inches)	605 / 23 ³ / ₄
Freeboard, Minimum (mm/inches)	300 / 11 ³ / ₄
Safe Working Load, 1pt (kgs/lbs)	2300 / 5070
Submergence (kg/cm, lb/inches)	18.2 / 101.9

Physical Characteristics

Material

Wall Thickness (mm/inches)	Rotationally-moulded UV-stabilised virgin polyethylene, internal 316-grade stainless steel bracing
Ballast (kg/lbs)	12 / 1 ¹ / ₂ (float section), 7 / 1 ¹ / ₄ (top section)
Filling	70 / 154
Height (mm/inches)	Closed-cell polyurethane foam (float section)
Width (mm/inches)	3500 / 137 ³ / ₄
Mass (kg/lbs)	1500 / 59 ¹ / ₈
Product Life Expectancy	220 / 485

Certifications

IALA	Surface colours compliant to IALA E-108
Quality Assurance	ISO9001:2008

Intellectual Property

Trademarks

Warranty *

Lantern Options

Options Available

Rotationally-moulded UV-stabilised virgin polyethylene, internal 316-grade stainless steel bracing
Closed-cell polyurethane foam (float section)
SEALITE® is a registered trademark of Sealite Pty Ltd
5 years
Sealite SL-15, SL-60, SL-70, SL-75, SL-C310, SL-C410, SL-C415 or SL-C420 lantern
• Custom signage
• Sealite IALA recommended top marks
• Radar reflector
• Access hatch
• Solar power supplies

* Specifications subject to change or variation without notice
 * Subject to standard terms and conditions
 ^ Refer to the Sealite website under the warranty section



1750mm dia. Ocean Buoy

POSEIDON-1750



POSEIDON-1750
Wreck Marking Buoy

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution

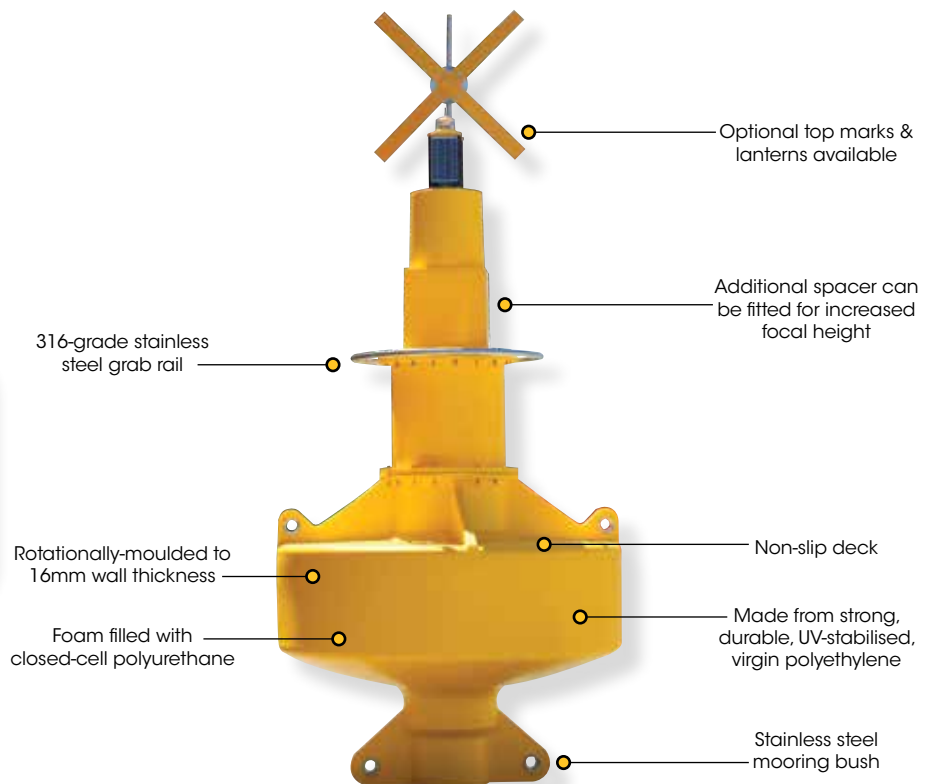
The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Individual colouration of each section to suit IALA colour/configuration recommendations
- Excellent buoyancy & stability
- Easy to deploy & service
- No painting, ever
- Cost effective & environmentally friendly
- Replaceable mooring bush inserts



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.



The Sealite POSEIDON-1750 Buoy is manufactured from UV-stabilised, virgin polyethylene and has been specifically designed to withstand the harsh marine environment, and operate reliably with minimal maintenance.

Ports worldwide are realising the advantages of polyethylene buoys over traditional steel models. The colour pigment is added to the polyethylene during the moulding process, which means that the buoy never requires painting.

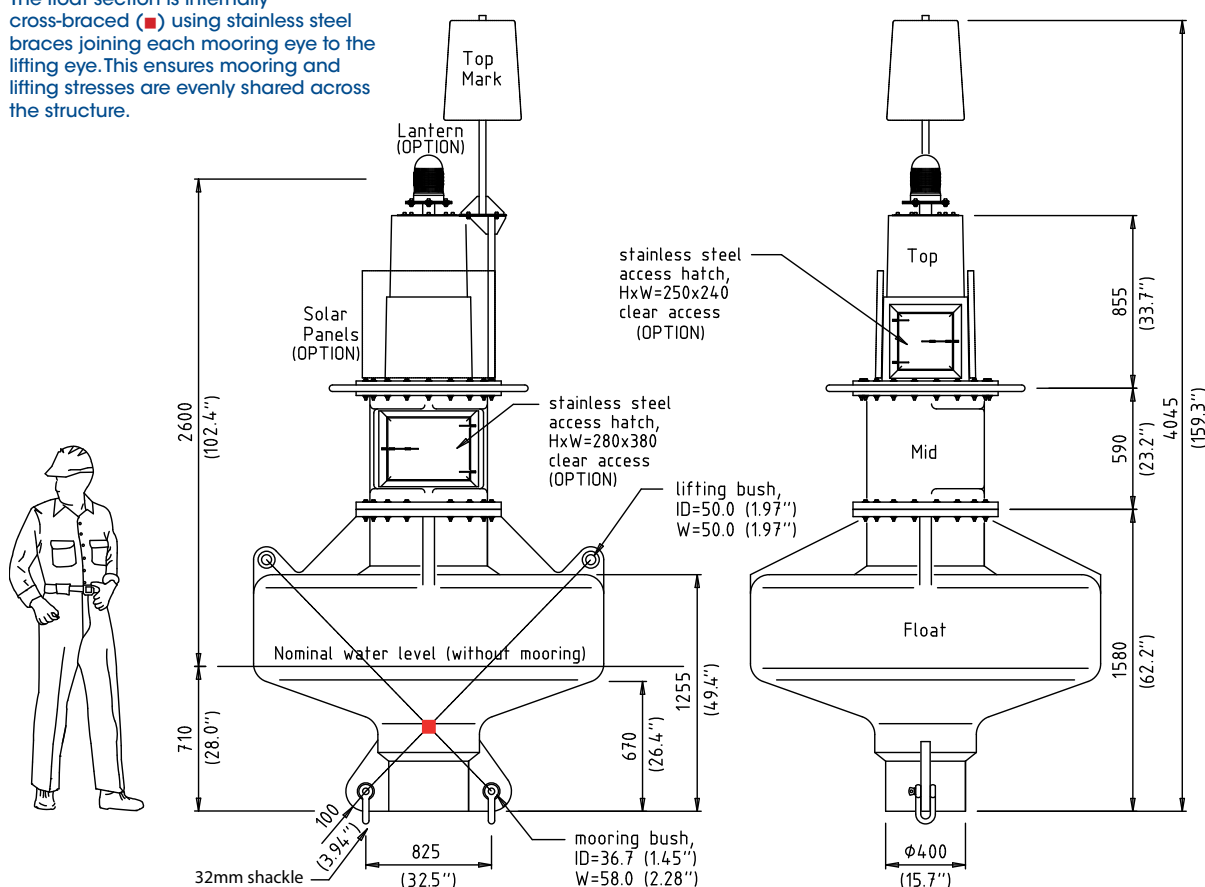
The polyethylene material also inhibits marine growth, so the buoy requires cleaning less often than steel types.

Significant advantages of the polyethylene buoy allow the interval between servicing to be far greater and users continually report major cost savings.

The POSEIDON-1750 is constructed from 3 parts ensuring ease of deployment and servicing. The float section incorporates two large lifting and mooring points, interconnected by 316-grade stainless steel tie-bars to provide greater strength. The mid-section may be supplied with a large secondary battery enclosure, whilst the top section is designed to carry the buoy's primary payload.



The float section is internally cross-braced (■) using stainless steel braces joining each mooring eye to the lifting eye. This ensures mooring and lifting stresses are evenly shared across the structure.



SPECIFICATIONS • POSEIDON-1750

General Characteristics

Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	2600 / 101.8 (standard), 3090 / 121 ⁵ / ₈ (with spacer)
Total Float Volume (litres/US gallon)	1815 / 480
Nominal Freeboard (mm/inches)	545 / 21.5
Nominal Draft (mm/inches)	710 / 28
Total Reserve Buoyancy (kgs/lbs)	1387 / 3058
Operational Buoyancy (kgs/lbs)	600 / 1323
Maximum Mooring Load (kgs/lbs)	600 / 1323
Draft, Maximum (mm/inches)	955 / 37.6
Freeboard, Minimum (mm/inches)	300 / 11.8
Safe Working Load, 1pt (kgs/lbs)	2300 / 5070
Safe Working Load, 2pt (kgs/lbs)	3250 / 7165
Submergence (kg/cm, lb/inches)	24.5 / 137
Visual Area (m ² /ft ²)	1.9 / 20.4

Physical Characteristics

Material

Wall Thickness (mm/inches)	16 / ⁵ / ₈ (float section)
Ballast (kg/lbs)	150 / 330 internal concrete
Filling	Closed-cell polyurethane foam (float section)
Height (mm/inches)	4045 / 159
Width (mm/inches)	1750 / 68 ⁷ / ₈
Mass (kg/lbs)	428 / 944
Radar Reflector	Echomax 230 Midi (RSC 10m ² per RORC/ORC)
Product Life Expectancy	>20 years [^]

Certifications

IALA
Quality Assurance

Intellectual Property

Trademarks

Warranty •

Lantern Options Options Available

Rotationally-moulded UV-stabilised virgin polyethylene, internal 316-grade stainless steel bracing, 316-grade stainless steel fittings, slip resistance platform

16 / ⁵/₈ (float section)
150 / 330 internal concrete
Closed-cell polyurethane foam (float section)
4045 / 159
1750 / 68⁷/₈
428 / 944
Echomax 230 Midi (RSC 10m² per RORC/ORC)
>20 years [^]

Surface colours compliant to IALA E-108
ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
5 years

Sealite SL-75, SL-C310, SL-C410, SL-C415, SL-C420, SL-125 Series or SL-155 Series

- Custom signage
- Monitoring Systems (AIS, GSM)
- Solar power supplies



- Specifications subject to change or variation without notice
- Subject to standard terms and conditions
- [^] Refer to the Sealite website under the warranty section

2200mm dia. Ocean Buoy

NAUTILUS-2200



AIS enabled NAUTILUS-2200

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution

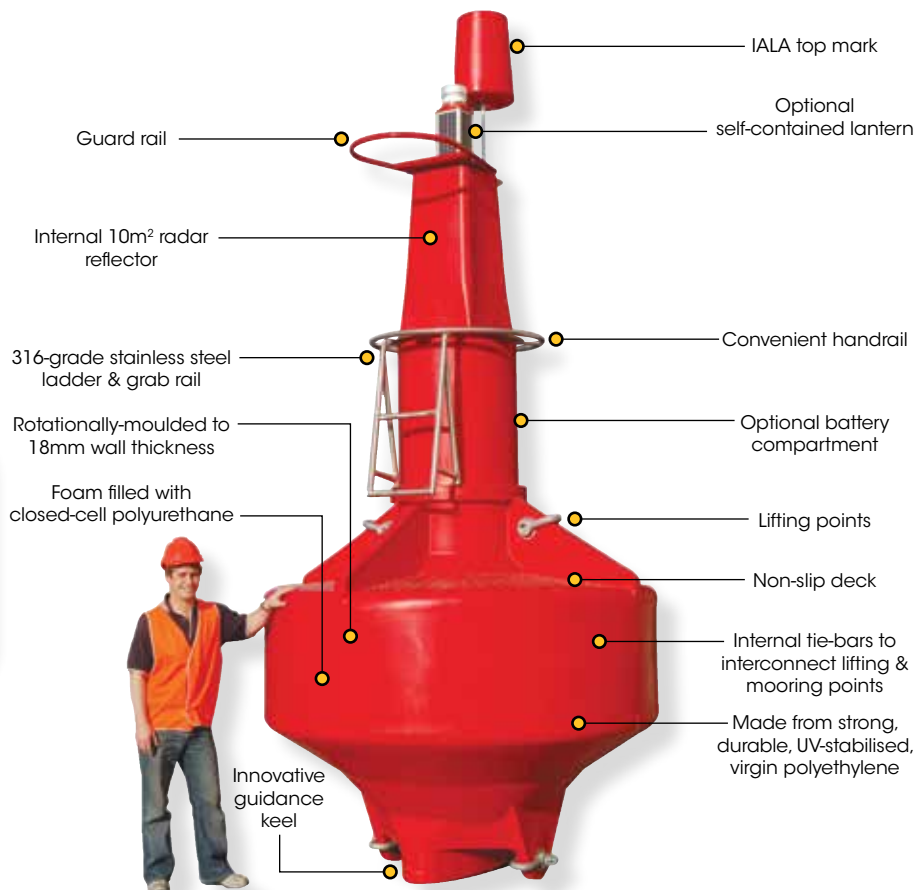
The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Robust construction, 2-part modular design
- Lightweight
- Large battery & payload section
- Excellent buoyancy & stability
- Easy to deploy & service
- No painting, ever
- Cost effective & environmentally friendly
- Replaceable mooring bush inserts
- 316-grade internal steelwork minimises corrosion



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.



The NAUTILUS-2200 is a robust, rotationally-moulded polyethylene ocean buoy designed for offshore, port and coastal applications.

The buoy is rotationally-moulded by Sealite from UV-stabilised, virgin polyethylene, and has a 2.2mtr float diameter and 3.2mtr lantern focal height. Lantern focal height may be increased up to 4mtrs.

Built in a 2-part modular design, the buoy can be setup in any IALA recommended assembly, and consists of a high-visibility float section with non-slip tread, and a tower section to support considerable payload.

The twin lifting and mooring eyes are interconnected by stainless steel tie bars through the hull structure – offering enormous strength and superior longevity of the navaid.

Five (5) buoys can be shipped in a 40ft container economically to almost any destination.

The Sealite NAUTILUS-2200 is one of the largest buoys available to incorporate a one-piece, rotationally-moulded hull section, and represents exceptional value for port operators around the world.



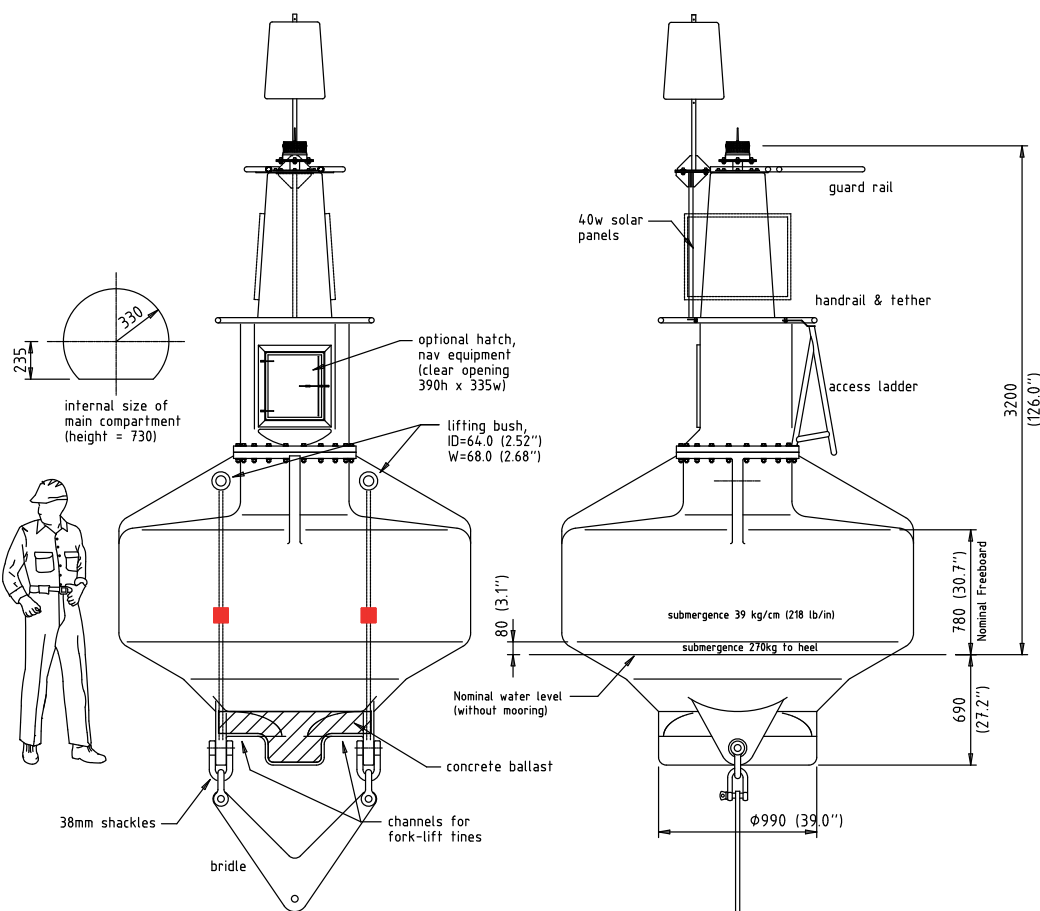
The tower and battery compartment allows for incorporation of additional batteries to drive ancillary equipment and increase the working autonomy of the navaid in lower sunlight conditions.



Convenient forklift access points to safely manoeuvre the buoy assembly.



Ultrasonic testing ensures consistency of wall thickness in key areas such as mooring points.



NAUTILUS-2200 Buoys mark the scuttled ex-HMAS Canberra, Port Phillip Bay, Melbourne, Australia



SPECIFICATIONS *

General Characteristics

Available Colours
Focal Plane Height (mm/inches)
Total Float Volume (ltrs/US gallon)
Nominal Freeboard (mm/inches)
Nominal Draft (mm/inches)
Total Reserve Buoyancy (kgs/lbs)
Operational Buoyancy (kgs/lbs)
Maximum Mooring Load (kgs/lbs)
Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Submergence (kg/cm, lb/inches)
Visual Area (m²/ft²)

Physical Characteristics

Material

Wall Thickness (mm/inches)
Ballast (kg/lbs)
Filling
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Radar Reflector
Product Life Expectancy

Handling/Lifting

Safe Working Load, 1pt (kg/lbs)
Safe Mooring Load, 1pt (kg/lbs)
Safe Working Load, 2pt (kg/lbs)
Safe Mooring Load, 2pt (kg/lbs)

Certifications

Quality Assurance

Intellectual Property

IALA

Trademarks

Warranty *

Lantern Options

Options Available

NAUTILUS-2200

Red, Green, White, Yellow as per IALA Recommendations

3200 / 126
4370 / 1154
780 / 30³/₄
690 / 27¹/₈
3670 / 8090
1050 / 2315
1025 / 2260
960 / 37³/₄
510 / 20¹/₈
39 / 218
3 / 32.3

Rotationally-moulded UV-stabilised virgin polyethylene, internal 316-grade stainless steel bracing, 316-grade stainless steel grab rail and ladder

18 / 3³/₄ (float section)
350 / 772 internal concrete
Closed-cell polyurethane foam (float section)
4120 / 162¹/₄
2200 / 86²/₃
830 / 1830

Echomax 230 Midi (RSC 10m² per RORC/ORC)
>20 years ^

1950 / 4300
1025 / 2260
4950 / 10912
4000 / 8818

ISO9001:2008

Surface colours compliant to IALA E-108

SEALITE® is a registered trademark of Sealite Pty Ltd

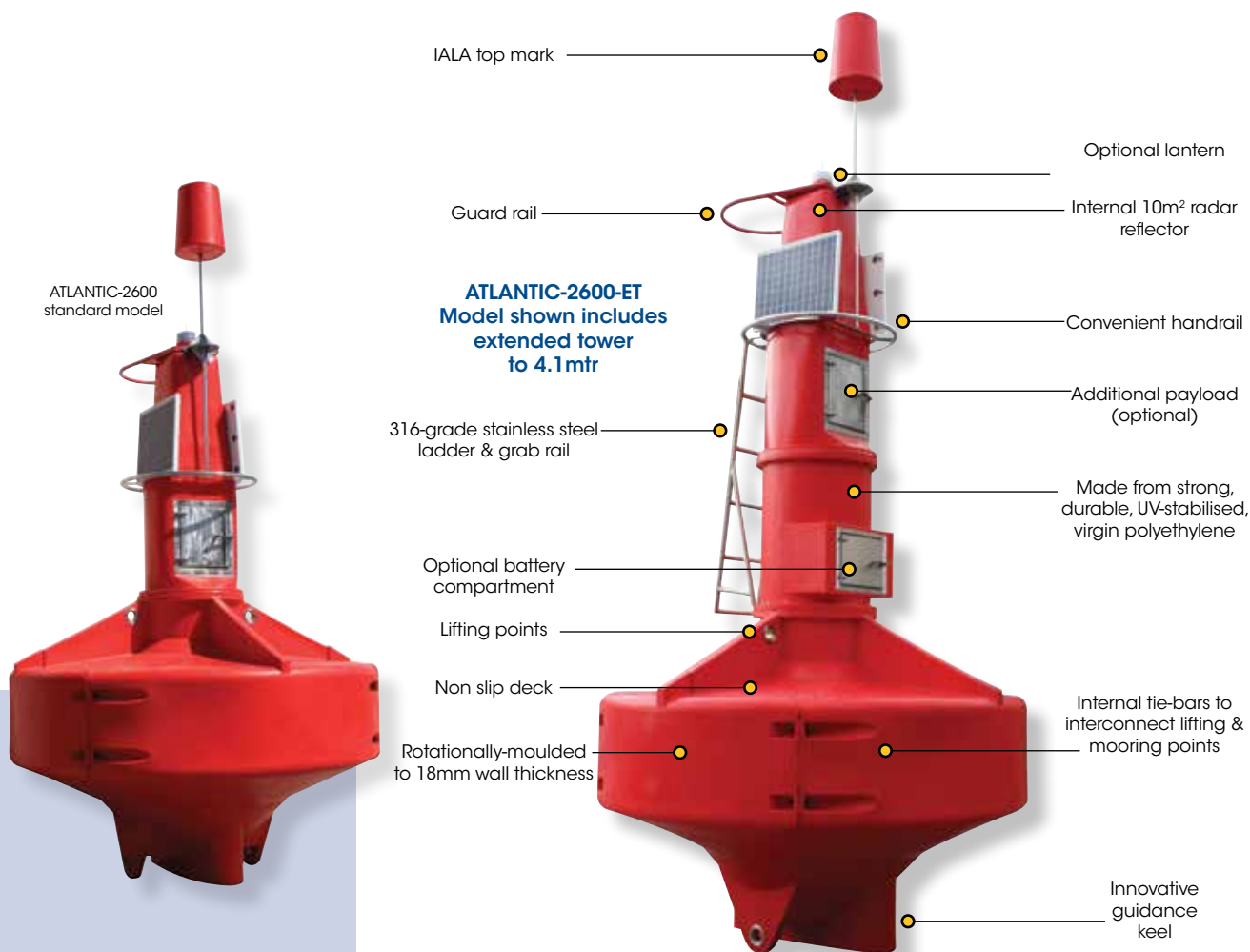
5 years

Sealite SL-75, SL-C310, SL-C410, SL-C415, SL-C420, SL-125 Series or SL-155 Series

- Custom signage
- Day marks
- Rotationally-moulded side-panelling
- Monitoring Systems (AIS, GSM)
- Solar panel supplies

2600mm dia. Ocean Buoy

ATLANTIC-2600



The Sealite Advantage

- Able to be transported globally in a standard shipping container
- High visibility red, green, white or yellow as per IALA recommendations
- Internal redundant buoyancy system
- 316-grade stainless steel, moulded-in tie bars provide outstanding lifting strength and corrosion resistance
- Excellent buoyancy & stability
- Easy to deploy & service
- No painting, ever
- Lower cost & environmentally friendly

The ATLANTIC-2600 is a 2.6mtr diameter navigation buoy designed for offshore port and coastal applications.

The buoy is rotationally-moulded by Sealite from UV-stabilised virgin polyethylene, and has a 2.6mtr float diameter and 4.1mtr lantern focal height.

The ATLANTIC-2600 is built in a 5-part modular design and can be setup in any IALA recommended assembly.

Twin lifting and mooring eyes are interconnected by stainless steel tie bars through the hull structure – offering enormous strength and superior longevity of the navaid.

The ATLANTIC buoy is the only buoy in its class to offer a large 2.6mtr diameter float section without the incorporation of a central mooring post. This provides enormous user benefits, including;

- Faster, easier to assemble – the ATLANTIC-2600 buoy is delivered almost ready to deploy
- Lightweight – up to 60% lighter than competitor models
- Single, rotationally-moulded main float section
- All stainless steel fittings

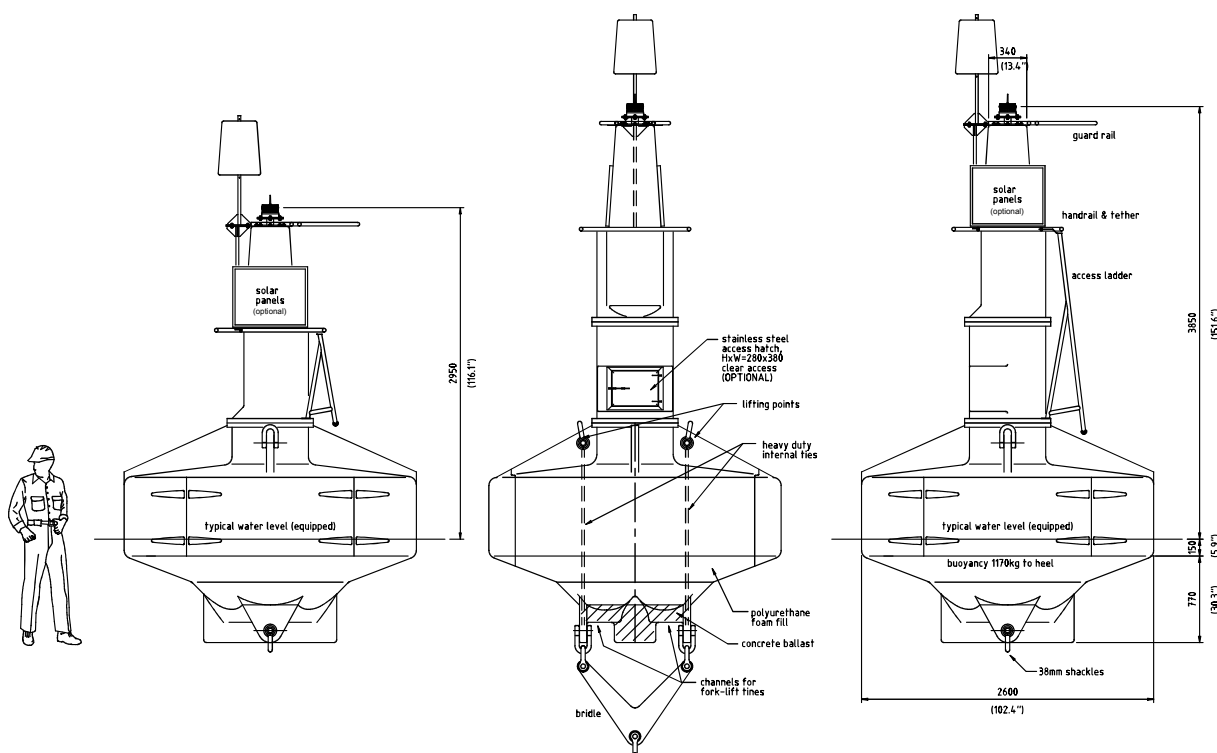


The hull section of the ATLANTIC-2600 has detachable side panels that are designed to be removed during transport, allowing the buoy to be conveniently transported in a shipping container. This provides the benefits of an extraordinarily large float section, without the need for a heavy, steel mooring-post.



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.



ATLANTIC-2600
Standard Model

ATLANTIC-2600-ET
Model includes extended tower



SPECIFICATIONS* *

ATLANTIC-2600

General Characteristics

Available Colours
Focal Plane Height (mm/inches)

Total Float Volume (ltrs/US gallon)
Nominal Freeboard (mm/inches)
Nominal Draft (mm/inches)
Total Reserve Buoyancy (kgs/lbs)
Operational Buoyancy (kgs/lbs)
Maximum Mooring Load (kgs/lbs)

Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Submergence (kg/cm, lb/inches)
Visual Area (m²/ft²)

Physical Characteristics

Material

Wall Thickness (mm/inches)
Ballast (kg/lbs)
Filling
Height (mm/inches)

Width (mm/inches)
Mass (kg/lbs)
Radar Reflector
Product Life Expectancy

Handling/Lifting

Safe Working Load, 1pt (kg/lbs)
Safe Mooring Load, 1pt (kg/lbs)
Safe Working Load, 2pt (kg/lbs)
Safe Mooring Load, 2pt (kg/lbs)

Certifications

IALA
Quality Assurance
Intellectual Property

Trademarks

Warranty *

Lantern Options
Options Available

Red, Green, White, Yellow as per IALA Recommendations
ATLANTIC-2600 (standard model): 2950 / 116¹/₈
ATLANTIC-2600-ET (extended tower model): 3850 / 151⁵/₈
5610 / 1482
780 / 30³/₄
690 / 27¹/₄
4800 / 10580
1475 / 3252
1475 / 3252
Must lift with 2 points when mooring load is above 1050 / 2315
990 / 39
480 / 18.9
54.7 / 306
4.0 / 13.1

Rotationally-moulded UV-stabilised virgin polyethylene,
316-grade internal tie bars, lifting & mooring eyes
18 / ³/₄ (float section)
400 / 882 internal concrete
Closed-cell polyurethane foam (float section)
ATLANTIC-2600 Standard Model: 4120 / 162¹/₄
ATLANTIC-2600-ET: 5020 / 197⁵/₈
2600 / 102³/₈
1050 / 2315
Echomax
>20 years ^

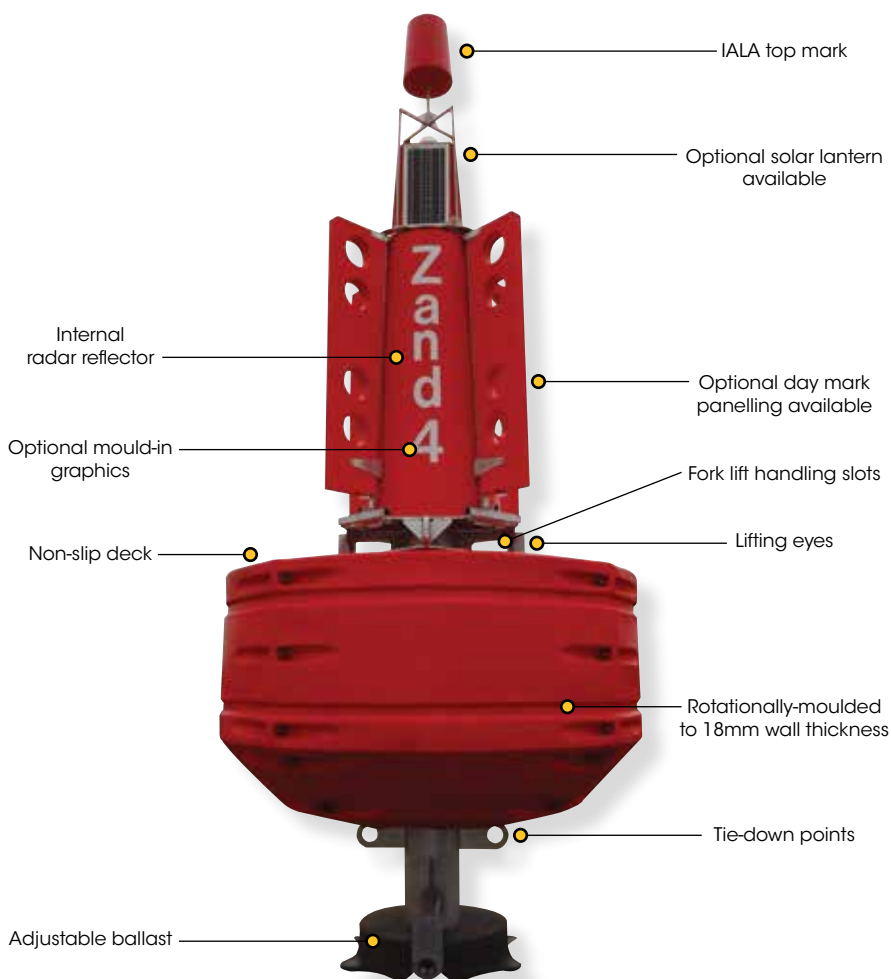
Surface colours compliant to IALA E-108
ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
5 years
Sealite SL-75, SL-C310, SL-C410, SL-C415, SL-C420, SL-125 Series or SL-155 Series
• Custom signage
• Day marks
• Monitoring Systems (AIS, GSM)
• Solar panel supplies

• Specifications subject to change or variation without notice
* Subject to standard terms and conditions
^ Refer to the Sealite website under the warranty section

2600mm dia. Ocean Buoy

TRIDENT-2600



The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Robust construction of 4 quadrant hull sections
- Lightweight
- Excellent buoyancy & stability
- Easy to deploy & service
- No painting, ever
- Cost effective & environmentally friendly
- Convenient forklift access points to safely manoeuvre the buoy assembly
- Stands flat on service vessel deck



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

The TRIDENT-2600 is one of the largest rotationally-moulded buoys available, with a float diameter of 2.6 meters and lantern focal height of up to 5 meters.

The float section of the TRIDENT-2600 is built from four (4) rotationally-moulded quadrants, which fasten together to form an incredibly robust 2.6 meter wide float section standing 1.5 meters tall. Each quadrant is moulded from UV-stabilised, virgin polyethylene, and has an 18mm wall thickness. In addition, each section may be filled with closed-cell polyurethane, which prevents the ingress of moisture in the unlikely event of damage.

The enhanced poly-tower design provides a huge visual area for navaid recognition, and consists of a sealed, rotationally-moulded tower section. The tower incorporates an internal radar reflector and solar mount facility.

Rotationally moulded daymarks are fitted to the outside of the tower to create a large daymark shape for Lateral Marks. Replaceable daymarks give the operator flexibility in stocking spares.

A steel mooring post runs through the centre of the assembly, to which the tower section is fastened. An integrated ladder with harness attachment points runs vertically up the tower to the top of the platform and two large lifting eyes aid in buoy mooring and periodic servicing.

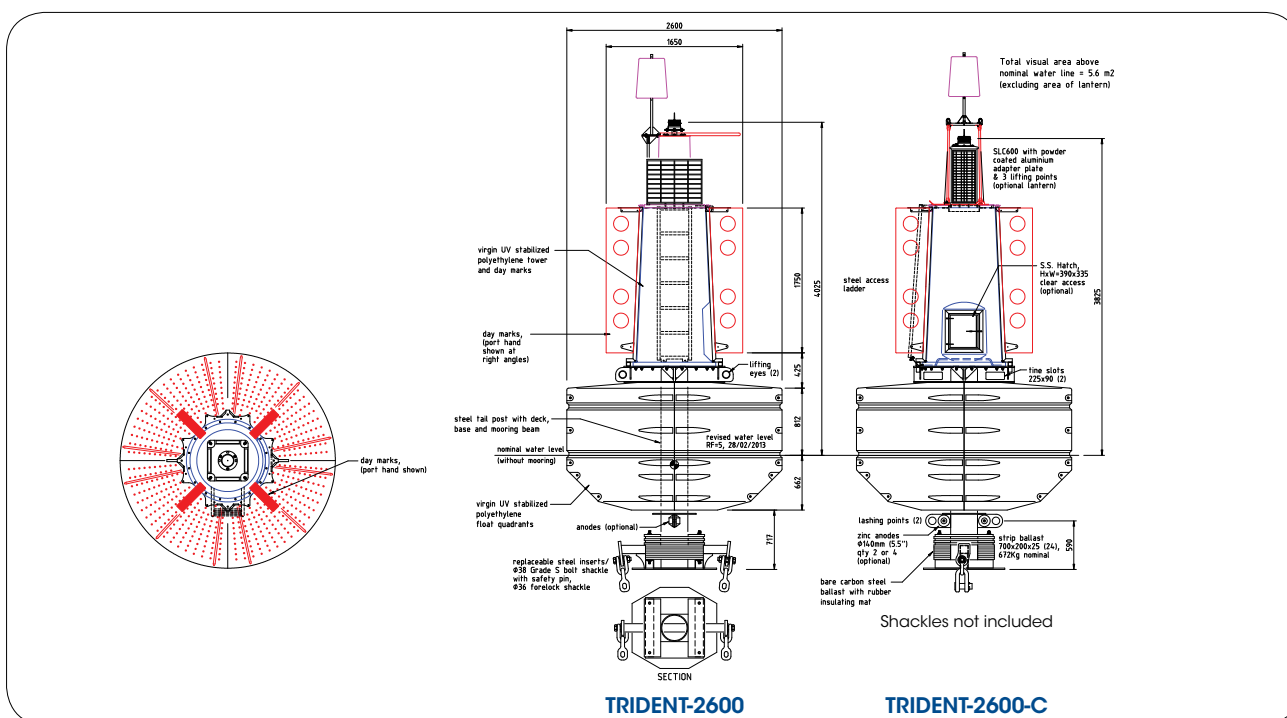
The unique design of the mooring post and flat base means the buoy can be stored upright in service yards and transported via truck and service vessels for increased handling safety.

No part of the structure requires painting at any stage of the product's life span.

A large counterweight offers exceptional stability in a variety of exposed regions.

The TRIDENT-2600 can be supplied in all IALA colours.





SPECIFICATIONS • *	TRIDENT-2600	TRIDENT-2600-C
	Standard Model	Compact Model
General Characteristics Available Colours Focal Plane Height (mm/inches) Total Float Volume (litres/US gallon) Nominal Freeboard (mm/inches) Nominal Draft (mm/inches) Total Reserve Buoyancy (kgs/lbs) Operational Buoyancy (kgs/lbs) Maximum Mooring Load (kgs/lbs) Draft, Maximum (mm/inches) Freeboard, Minimum (mm/inches) Safe Working Load, 1pt (kgs/lbs) Safe Working Load, 2pt (kgs/lbs) Submergence (kg/cm, lb/inches) Visual Area (m ² /ft ²) Water Area (m ² /ft ²) Physical Characteristics Material Wall Thickness (mm/inches) Ballast (kg/lbs) Filling Height (mm/inches) Width (mm/inches) Mass (kg/lbs) Radar Reflector Product Life Expectancy Certifications IALA Quality Assurance Intellectual Property Trademarks Warranty * Lantern Options Options Available	Red, Green, White, Yellow as per IALA Recommendations 4025 / 158½ 6710 / 1772 865 / 34 1325 / 52⅓ 4538 / 10004 2000 / 4409 2000 / 4409 1690 / 66½ 500 / 19⅝ 5500 / 12125 (one lifting point) 11000 / 24250 (two lifting points) 54.7 / 306 4.7 / 50.6 (without daymark) 6.0 / 64.5 (with daymark) 1.7 / 18.3 Rotationally-moulded UV-stabilised virgin polyethylene float section, tower assembly, top marks and panelling. 316-grade stainless steel fixtures. 18 / ¾ 672 / 1482 external steel Closed-cell polyurethane foam (float section) 6240 / 245⅝ 2600 / 102⅝ 2340 / 5159 (depending on payload) Echomax EM230 >20 years ^ Surface colours compliant to IALA E-108 ISO9001:2008 SEALITE® is a registered trademark of Sealite Pty Ltd 5 years Sealite SL-C310, SL-C410, SL-C415, SL-C420, SL-C500, SL-C600, SL-125 Series or SL-155 Series • Custom signage • Day marks • Monitoring Systems (AIS, GSM) • Name Plate • Aluminium Tower Assembly • Galvanised or stainless steel mooring post • Tail tube mooring post	Red, Green, White, Yellow as per IALA Recommendations 3825 / 150½ 6710 / 1772 865 / 34 1325 / 52⅓ 4538 / 10004 2000 / 4409 2000 / 4409 1690 / 66½ 500 / 19⅝ 5500 / 12125 (one lifting point) 11000 / 24250 (two lifting points) 54.7 / 306 4.3 / 46.3 (without daymark) 5.6 / 60.2 (with daymark) 1.7 / 18.3 Rotationally-moulded UV-stabilised virgin polyethylene float section, tower assembly, top marks and panelling. 316-grade stainless steel fixtures. 18 / ¾ 672 / 1482 external steel Closed-cell polyurethane foam (float section) 6240 / 245⅝ 2600 / 102⅝ 2340 / 5159 (depending on payload) Echomax EM230 >20 years ^ Surface colours compliant to IALA E-108 ISO9001:2008 SEALITE® is a registered trademark of Sealite Pty Ltd 5 years Sealite SL-C310, SL-C410, SL-C415, SL-C420, SL-C500, SL-C600, SL-125 Series or SL-155 Series • Custom signage • Day marks • Monitoring Systems (AIS, GSM) • Name Plate • Aluminium Tower Assembly • Galvanised or stainless steel mooring post • Tail tube mooring post

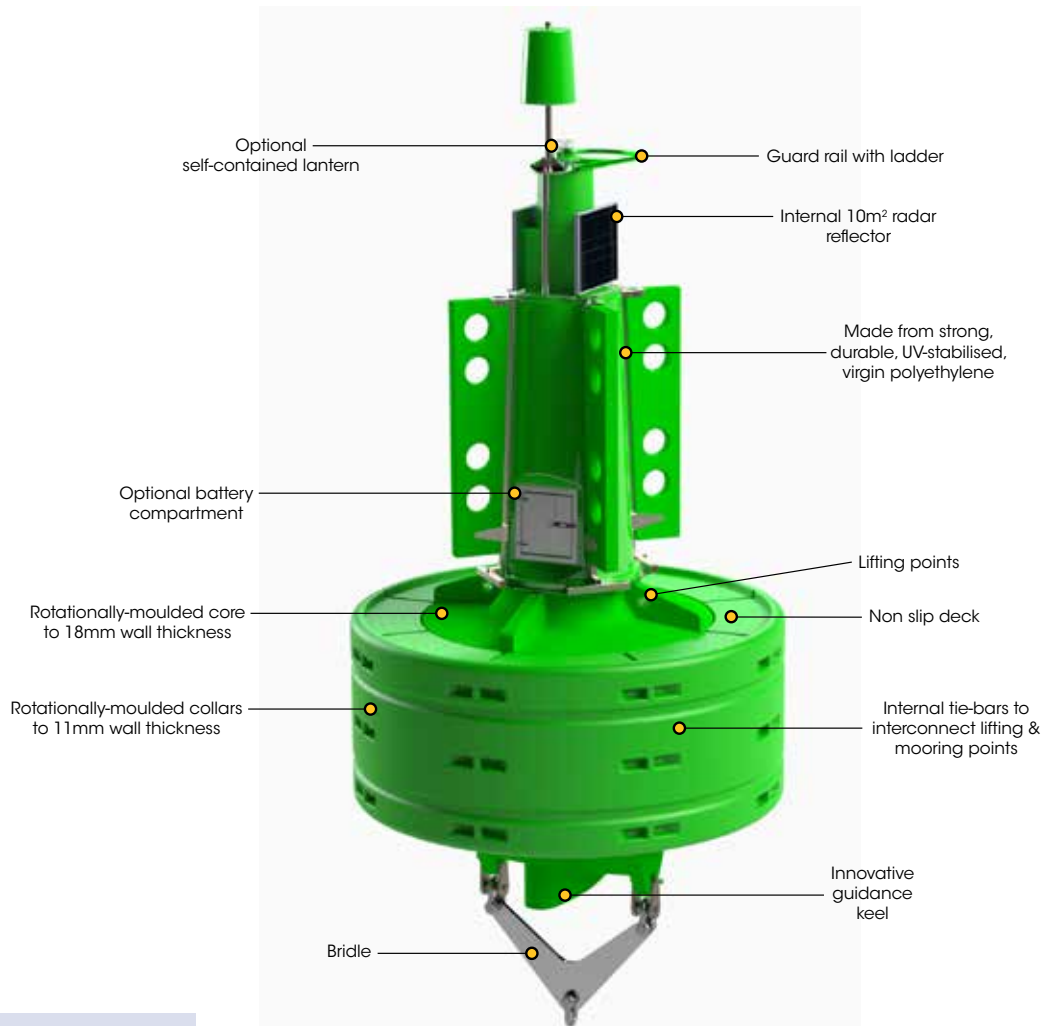
Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution



* Specifications subject to change or variation without notice
 ^ Refer to the Sealite website under the warranty section

3000mm dia. Ocean Buoy

ATLANTIC-3000



The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- All polyethylene design
- Lower assembly costs than traditional steel/plastic hybrid buoys
- Lightweight
- 316-grade stainless steel, moulded-in tie bars provide outstanding lifting strength
- Easier shipping, assembly, and on-station servicing
- Easy to deploy and service
- No painting, ever
- Cost effective & environmentally friendly

The ATLANTIC-3000 is a 3m diameter navigation buoy designed for offshore port and coastal applications.

This innovative product is manufactured almost entirely from polyethylene, offering significant advantages over steel or hybrid designs.

All Plastic Design

The ATLANTIC-3000 is the only buoy in its class to offer a large 3m diameter float section without the incorporation of a central mooring post.

The float section of the ATLANTIC-3000 is built from a large central chamber with a ring of float collars*.

This design offers several benefits including;

- Faster, safer and easier to assemble
- Lightweight – up to 60% lighter than competitor models
- Replaceable exterior sections in the event of impact damage
- Multiple buoyancy chambers to provide a higher level of redundancy
- Ability to interchange colours to provide striped combinations such as IALA safe water or wreck marks.

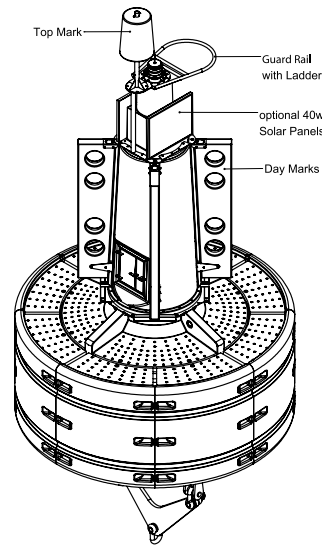
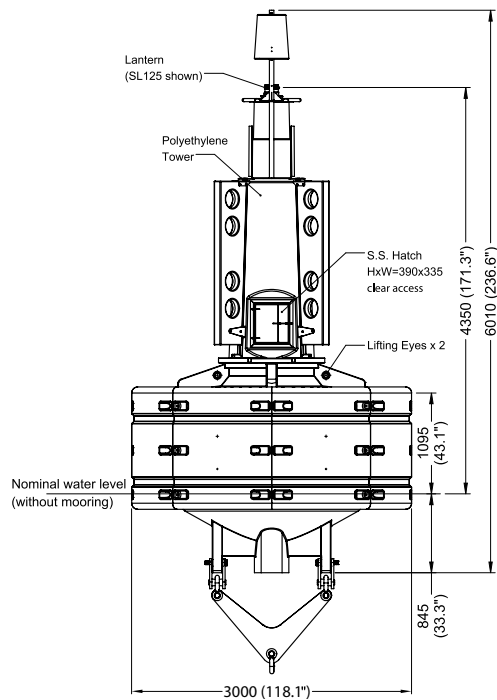
10TN Safe Working Load

Large, integrated lifting and mooring eyes offer a safe working load of up to 10T (2-eye lift) which is comparable to traditional steel designs. This is achieved by an innovative strengthened internal bracing design that connects these lifting and mooring points*.

Easier to assemble, deploy and service

When compared to other 3m navigation buoys, the ATLANTIC is easier to assemble, deploy and service. The buoy can be easily manoeuvred around site by convenient forklift access points, is lightweight and can sit flat on the deck of a vessel.

The ATLANTIC-3000 can be supplied in all IALA colours, and can carry a significant payload including power supplies, met hydro and telemetry equipment.



SPECIFICATIONS * *

ATLANTIC-3000

General Characteristics

Available Colours
Focal Plane Height (mm/inches)
Total Float Volume (litres/US gallon)
Nominal Freeboard (mm/inches)
Nominal Draft (mm/inches)
Total Buoyancy (kgs/lbs)
Reserve Buoyancy (kgs/lbs)
Maximum Mooring Load (kgs/lbs)
Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Safe Working Load, 1pt (kgs/lbs)
Safe Working Load, 2pt (kgs/lbs)
Submergence (kg/cm, lb/inches)
Visual Area (m²/ft²)

Red, Green, White, Yellow as per IALA Recommendations
4350 / 171³/₁₀
9587 / 2532
1095 / 43¹/₁₀
845 / 33³/₁₀
8000 / 17636
2650 / 5842
2650 / 5842
1240 / 48³/₅
700 / 27⁴/₅
5000 / 11023
10000 / 22046
63 / 352³/₅
5.9 / 63¹/₂
7.2 / 77⁷/₁₀ (with day marks)
1.3 / 14

Water Area (m²/ft²)

Physical Characteristics

Material

Wall Thickness (mm/inches)

Ballast (kg/lbs)
Filling
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Radar Reflector
Product Life Expectancy

Rotationally-moulded UV-stabilised virgin polyethylene,
316-grade internal tie bars, lifting & mooring eyes
18 / 0.70 (core)
11 / 0.43 (collars)
500 / 1102 internal concrete
Closed-cell polyurethane foam (float section)
ATLANTIC-3000 Standard Model: 6010 / 236.6
3000 / 118¹/₁₀
1825 / 4024
Echomax
>20 years

Certifications

IALA
Quality Assurance

Intellectual Property

Trademarks

Warranty *

Lantern Options
Options Available

Surface colours compliant to IALA E-108
ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
5 years

Sealite SL-C310, SL-C410, SL-C415, SL-C420, SL-125 Series or SL-155 Series

- Mould-in graphics
- Day marks
- Monitoring Systems (AIS, GSM)

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



3000mm dia. Ocean Buoy

TRIDENT-3000: Hexagonal Aluminium Tower

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution

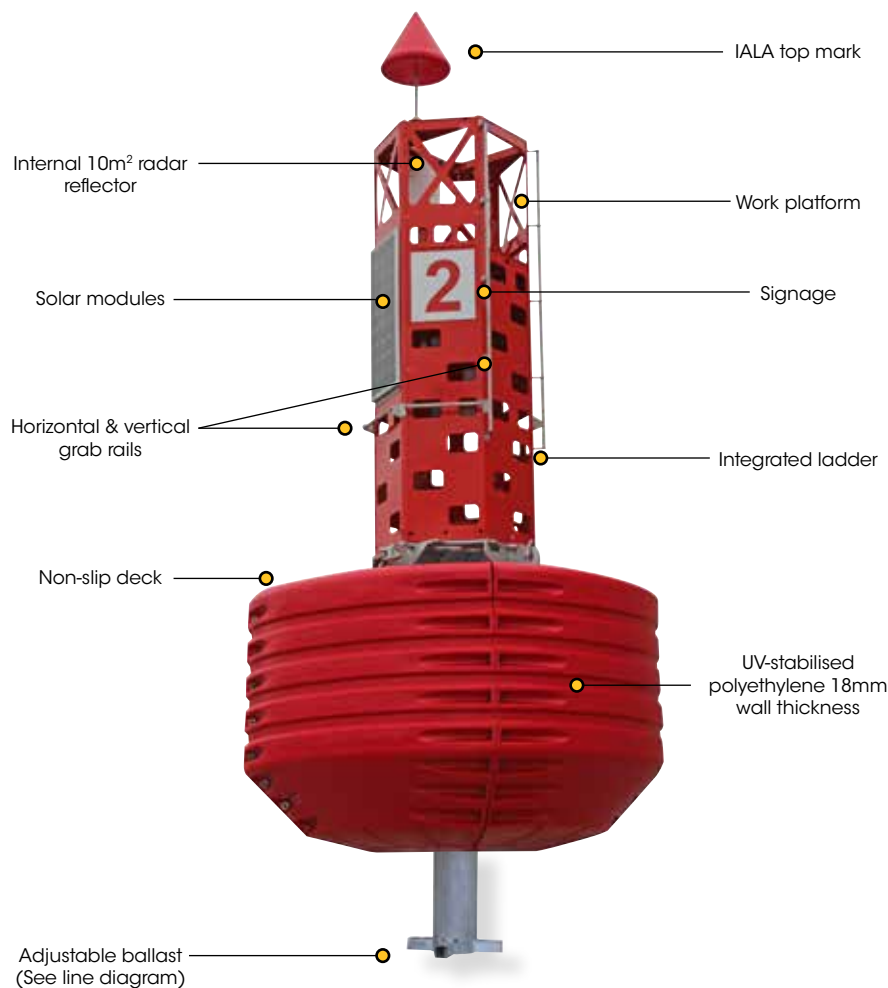
The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Flexible tower configurations
- Robust construction of 4 quadrant hull sections
- Lightweight
- Large battery & payload section
- Excellent buoyancy & stability
- Easy to deploy & service
- Cost effective & environmentally friendly



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.



The TRIDENT-3000 is one of the largest rotationally-moulded buoys available, with a float diameter of 3 meters and lantern focal height of up to 5 meters.

The float section of the TRIDENT-3000 is built from four (4) rotationally-moulded quadrants, which fasten together to form an incredibly robust 3 meter wide float section standing 1.8 meters tall. Each quadrant is moulded from UV-stabilised, virgin polyethylene, and has an 18mm wall thickness. In addition, each section is filled with closed-cell polyurethane, which prevents the ingress of moisture in the unlikely event of damage.

A galvanised steel or 316-grade stainless steel mooring pole runs through the centre of the assembly, to which the tower section is fastened. Four large lifting eyes aid in buoy mooring and periodic servicing.

Hexagonal Aluminium Tower Design

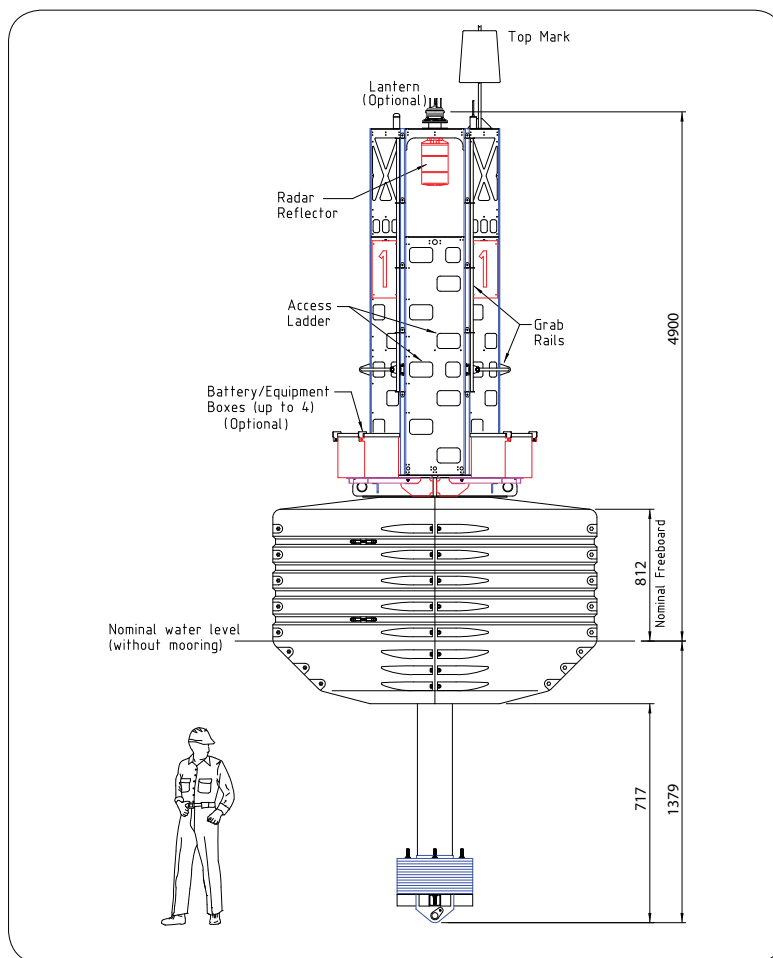
The hexagonal tower design provides a large, robust superstructure and is built from marine grade aluminium subject to powder-coating in high visibility colours.

The tower is capable of supporting additional payload and provides user benefits such as;

- Large area for signage
- Flexible configurations & heights
- Capacity for additional power supplies
- Capacity for additional payload such as remote monitoring and Met Ocean instrumentation
- Integrated ladder & work platform
- Integrated grab rails

A large counterweight offers exceptional stability in a variety of exposed regions.

The TRIDENT-3000 can be supplied in all IALA colours and configurations.



• Specifications subject to change or variation without notice
* Subject to standard terms and conditions
^ Refer to the Sealite website under the warranty section



Safe work platform



Solar panel mounted to lower section

SPECIFICATIONS * • TRIDENT-3000

Hexagonal Aluminium Tower

General Characteristics

Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	4900 / 192 ⁷ / ₈
Total Float Volume (lts/US gallon)	11000 / 2906
Nominal Freeboard (mm/inches)	1220 / 48
Nominal Draft (mm/inches)	2610 / 102 ⁷ / ₈
Total Reserve Buoyancy (kgs/lbs)	8530 / 18805
Operational Buoyancy (kgs/lbs)	3024 / 6667
Maximum Mooring Load (kgs/lbs)	2750 / 6063
Draft, Maximum (mm/inches)	3030 / 119 ¹ / ₄
Freeboard, Minimum (mm/inches)	800 / 31 ¹ / ₂
Safe Working Load, 1pt (kgs/lbs)	6000 / 13228 (one lifting point)
Safe Working Load, 2pt (kgs/lbs)	8630 / 19025 (two lifting points)
Submergence (kg/cm, lb/inches)	72 / 403
Visual Area (m ² /ft ²)	7.8 / 83.9
Water Area (m ² /ft ²)	2.2 / 23.76

Physical Characteristics

Material

Wall Thickness (mm/inches)	18 / 3/4
Ballast (kg/lbs)	732 / 1614 external steel
Filling	Closed-cell polyurethane foam (float section)
Height (mm/inches)	8330 / 328
Width (mm/inches)	3000 / 118 ¹ / ₈
Mass (kg/lbs)	2800 / 6173 (depending on payload)
Radar Reflector	Internal 10m ²
Product Life Expectancy	>20 years ^

Certifications

IALA
Quality Assurance

Intellectual Property

Trademarks

Warranty *

Lantern Options Options Available

Rotationally-moulded UV-stabilised virgin polyethylene float section and top marks.
7-stage powder-coated aluminium tower assembly with 316-grade stainless steel fixtures.

18 / 3/4
732 / 1614 external steel
Closed-cell polyurethane foam (float section)
8330 / 328
3000 / 118 ¹ / ₈
2800 / 6173 (depending on payload)
Internal 10m ²
>20 years ^

Surface colours compliant to IALA E-108
ISO9001:2008

SEALITE® is a registered trademark of Sealite Pty Ltd
5 years

Sealite SL-C310, SL-C410, SL-C415, SL-C420 SL-125 Series or SL-155 Series

- Monitoring Systems (AIS, GSM)
- Unfilled Float Sections
- Increased focal plane heights
- Met Hydro Solutions
- Galvanised or stainless steel mooring post
- Flat bottom mooring post with dual mooring eyes

3000mm dia. Ocean Buoy

TRIDENT-3000: Polyethylene Tower

Sealite have a range of mooring chains & accessories - ask your representative today how we can supply your complete mooring solution

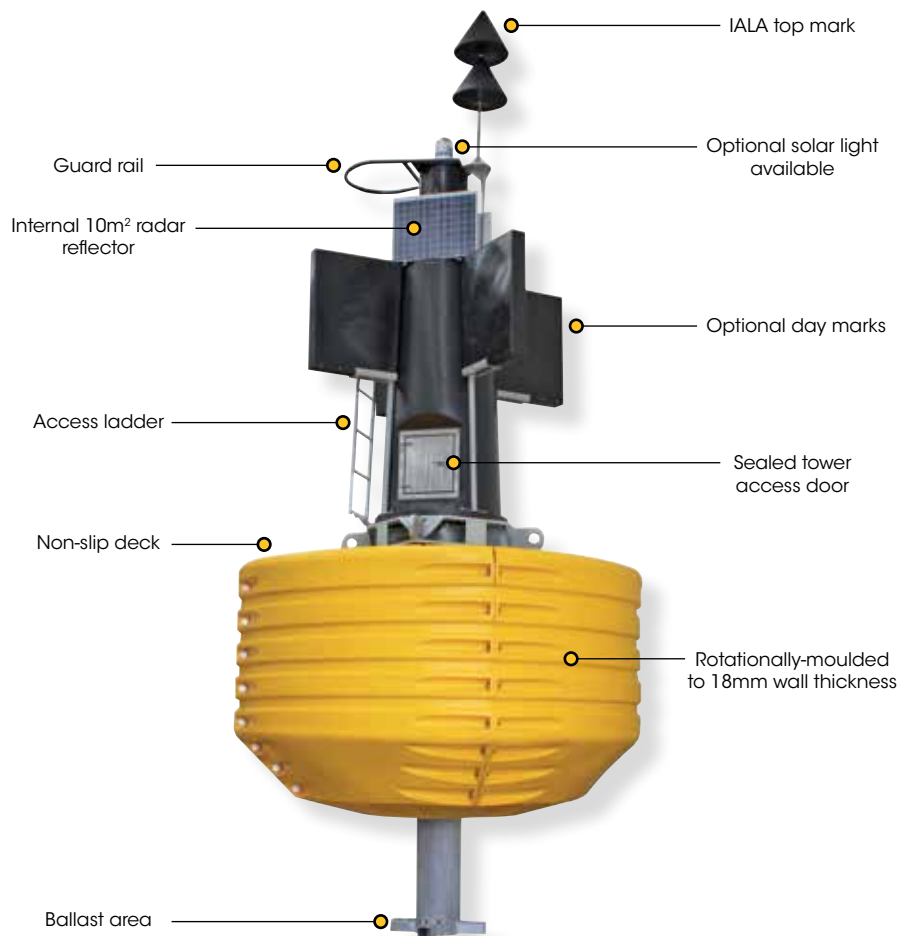
The Sealite Advantage

- High visibility red, green, white or yellow as per IALA recommendations
- Robust construction of 4 quadrant hull sections
- Lightweight
- Large battery & payload section
- Excellent buoyancy & stability
- Easy to deploy & service
- No painting, ever
- Cost effective & environmentally friendly
- Convenient forklift access points to safely manoeuvre the buoy assembly



**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.



The TRIDENT-3000 is one of the largest rotationally-moulded buoys available, with a float diameter of 3 meters and lantern focal height of up to 5 meters.

The float section of the TRIDENT-3000 is built from four (4) rotationally-moulded quadrants, which fasten together to form an incredibly robust 3 meter wide float section standing 1.8 meters tall. Each quadrant is moulded from UV-stabilised, virgin polyethylene, and has an 18mm wall thickness. In addition, each section is filled with closed-cell polyurethane, which prevents the ingress of moisture in the unlikely event of damage.

A galvanised steel or 316-grade stainless steel mooring pole runs through the centre of the assembly, to which the tower section is fastened. Four large lifting eyes aid in buoy mooring and periodic servicing.

The enhanced poly-tower design provides a huge visual area for navaid recognition, and consists of two sealed, rotationally-moulded tower sections. The lower section incorporates a battery access door and houses batteries, controllers and any ancillary electronic payload. The top section incorporates an internal radar reflector and solar mount facility.

Rotationally-moulded panelling is fitted to the outside of the tower section to create a large coloured visual area for marking. The replaceable panelling also simplifies cardinal marking and gives operators flexibility in stocking spare components. No part of the structure requires painting at any stage of the product's life span.

An integrated ladder with harness attachment points runs vertically up the tower to the top of the platform.

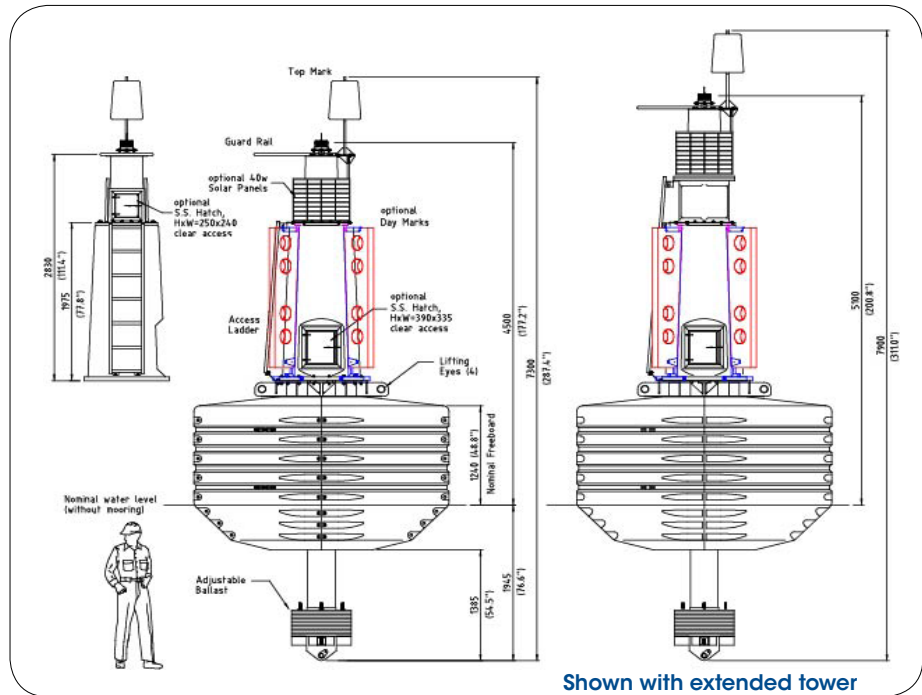
A large counterweight offers exceptional stability in a variety of exposed regions.

The TRIDENT-3000 can be supplied in all IALA colours.



TRIDENT-3000 installation, Port of Newcastle, Australia





TRIDENT-3000 Damman Port, Saudi Arabia



TRIDENT-3000 installation, Middle East

SPECIFICATIONS * *

TRIDENT-3000

Polyethylene Tower

General Characteristics

Available Colours
Focal Plane Height (mm/inches)
Total Float Volume (ltrs/US gallon)
Nominal Freeboard (mm/inches)
Nominal Draft (mm/inches)
Total Reserve Buoyancy (kgs/lbs)
Operational Buoyancy (kgs/lbs)
Maximum Mooring Load (kgs/lbs)
Draft, Maximum (mm/inches)
Freeboard, Minimum (mm/inches)
Safe Working Load, 1pt (kgs/lbs)
Safe Working Load, 2pt (kgs/lbs)
Submergence (kg/cm, lb/inches)
Visual Area (m²/ft²)

Water Area (m²/ft²)

Physical Characteristics

Material

Wall Thickness (mm/inches)
Ballast (kg/lbs)
Filling
Height (mm/inches)
Width (mm/inches)
Mass (kg/lbs)
Radar Reflector
Product Life Expectancy

Certifications

IALA

Quality Assurance

Intellectual Property

Trademarks

Warranty *

Lantern Options Options Available

Red, Green, White, Yellow as per IALA Recommendations

4500 / 177.2

11000 / 2906

1240 / 48³/₄

1945 / 76¹/₂

8750 / 19290

3170 / 6990

2750 / 6063

2400 / 94¹/₂

800 / 31¹/₂

6000 / 13228 (one lifting point)

8630 / 19025 (two lifting points)

72 / 403

7.1 / 76.4 (with daymark)

6.4 / 68.9 (without daymark)

2.1 / 22.6

Rotationally-moulded
UV-stabilised virgin polyethylene float section, tower assembly, top marks and panelling.

316-grade stainless steel fixtures.

18 / ³/₄

765 / 1687 external steel

Closed-cell polyurethane foam (float section)

7900 / 311

3000 / 118¹/₈

2580 / 5688 (depending on payload)

Echomax

>20 years ^

Surface colours compliant to IALA E-108

ISO9001:2008

SEALITE® is a registered
trademark of Sealite Pty Ltd
5 years

Sealite SL-C310, SL-C410, SL-C415, SL-C420 SL-125 Series or SL-155 Series

- Custom signage
- Day marks
- Monitoring Systems (AIS, GSM)
- Unfilled Float Section
- Tower Extension (Focal Plane height: 5100mm / 200³/₄inches)
- Galvanised or stainless steel mooring post
- Flat bottom mooring post or dual mooring eyes

Barrier Floats

SL-BF Series



Sealite have a range of accessories available including cable and mooring equipment - ask your representative today how we can supply your complete mooring solution



SL-BF-1830 Model

SL-BF-2436 Model

The Sealite Advantage

- Strong polyethylene construction
- Rotationally moulded
- High visibility orange, red, green, white, yellow
- Easy to install
- Optional accessories including cable & mooring equipment
- ID labels & graphics available
- Typical applications: dam barriers, security zones, swim lines
- SL-BF-1830: 18" diameter
- SL-BF-2436: 24" diameter

Sealite's barrier floats can be linked together to restrict boating traffic and swimmers from entering specific danger areas such as spillways and dams. They are manufactured using strong, UV-stabilised polyethylene and are available in a range of high visibility colours.

Sealite's barrier floats are available in 18" (457mm) and 24" (610mm) diameter. The barrier floats are rotationally moulded as a single piece with a wall thickness up to 5mm — increasing strength and ensuring a robust and functional product. The floats are polyurethane foam filled making them virtually unsinkable.

The barrier floats come ready for deployment and Sealite also has a range of accessories available including cable and mooring equipment.

To service the 'urgent need' requirements of our customers, Sealite keeps stock available ready for immediate shipment.

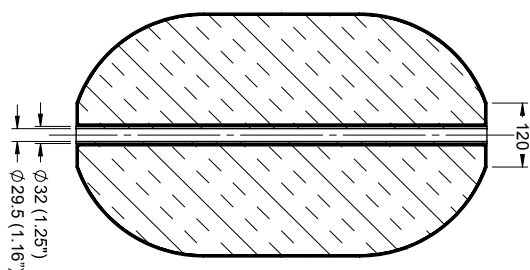
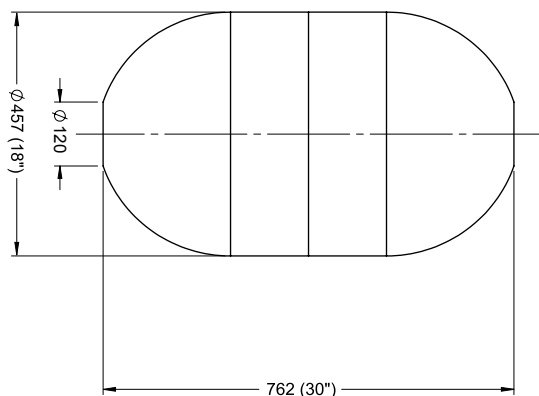


**Environmentally
Friendly &
Recyclable**

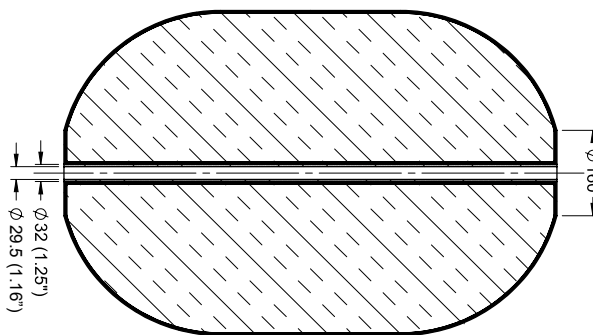
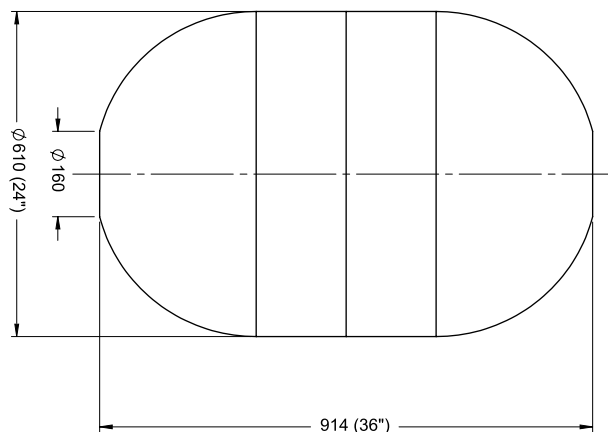
Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.



SL-BF-1830 Model



SL-BF-2436 Model



Comes standard with eye nuts and threaded rod

SPECIFICATIONS * *

General Characteristics

Available Colours
Total Float Volume (ltrs/US gallon)
Total Reserve Buoyancy (kg/lbs)

Physical Characteristics

Material

Wall Thickness (mm/inches)

Filling

Length (mm/inches)

Diameter (mm/inches)

Mass (kg/lbs)

Warranty *

SL-BF-1830

Orange, Red, Green, White, Yellow
100 / 26.4
78.8 / 174

Rotationally-moulded UV-stabilised
virgin polyethylene
4 / 0.16

Closed-cell polyurethane foam

762 / 30

457 / 18

9.5 / 21

1 year

SL-BF-2436

Orange, Red, Green, White, Yellow
214.1 / 56.6
167.9 / 370

Rotationally-moulded UV-stabilised
virgin polyethylene
5 / 0.2

Closed-cell polyurethane foam

914 / 36

610 / 24

17.7 / 39

1 year

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

Pipe Floats

SL-PF Series



The Sealite Advantage

- Strong, rotationally moulded polyethylene construction
- Manufactured in high visibility colors
- Easy to install
- Internal anti-slip mechanism
- Resistant to sea conditions
- Available in four sizes: 8, 10, 12, 24 inches

Sealite pipe floats are rotationally moulded from UV-stabilized polyethylene, and can be secured around pipes, hoses and cables for use in dredging or other marine environments such as dredging.

Each kit comes in two halves with associated hardware, and is stackable for storage or within a shipping container for economical transportation.

The units have a number of convenient features including tapered internal ends to allow the pipe to flex, and an internal anti-slip mechanism. As an option, the floats can be filled with closed-cell polyurethane foam to prevent water ingress in the unlikely event of damage.

Pipe Floats Specifications

Model	Pipe clamp OD (mm/inches)	Pipe clamp ID (mm/inches)	Suitable pipe OD	Length (mm/inches)	Mass (kg/lbs)	Total Buoyancy to full submergence, unfoamed (kg/lbs)
SL-PF08	460 / 18	225 / 8 ⁷ / ₈	8 inches	900 / 35 ¹ / ₂	Unfoamed: 19.1 / 42.0 Foamed: 22.7 / 50	80 / 176
SL-PF10	812 / 32	276 / 10 ⁷ / ₈	10 inches	1066 / 42	Unfoamed: 31.8 / 70 Foamed: 47.7 / 105	364 / 801
SL-PF12	820 / 32 ¹ / ₄	320 / 12 ⁷ / ₃₂	12 inches	1016 / 40	Unfoamed: 40.9 / 90 Foamed: 56.8 / 125	381 / 838
SL-PF24	1219 / 48	632 / 24 ⁷ / ₈	24 inches	1143 / 45	Unfoamed: 81.8 / 180 Foamed: 111.4 / 245	853 / 1877

Warranty: All pipe floats have a 1 year warranty.
Available colours: Orange, red, green, white, yellow.

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

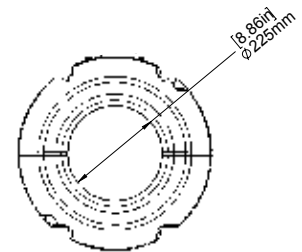
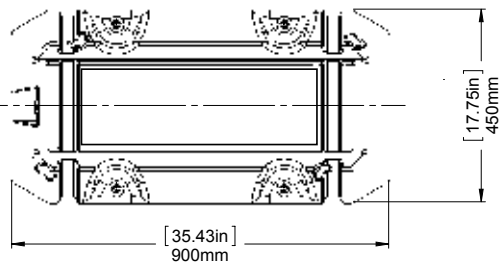


**Environmentally
Friendly &
Recyclable**

Sealite buoy products are made from recyclable materials. As a service to customers, individual components and products at the end of their service life may be returned to Sealite for recycling.

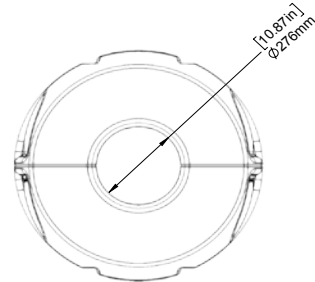
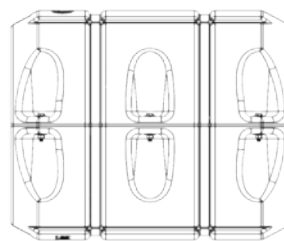
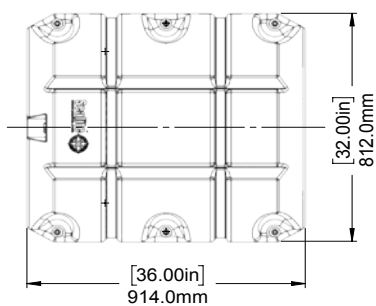


SL-PF08



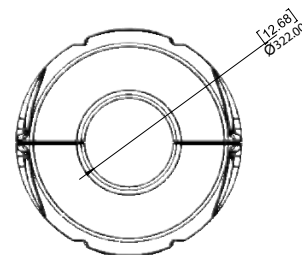
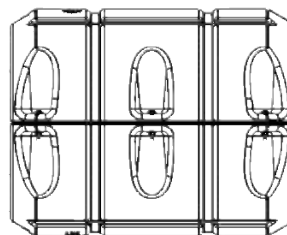
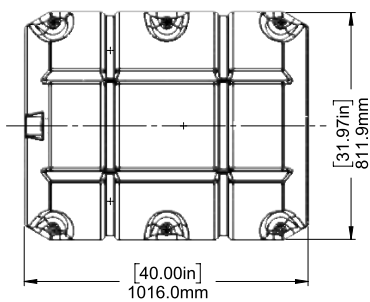
Base Model

SL-PF10



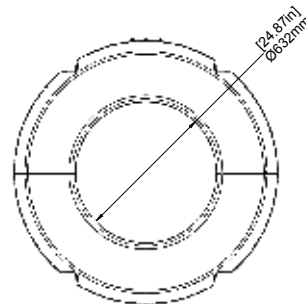
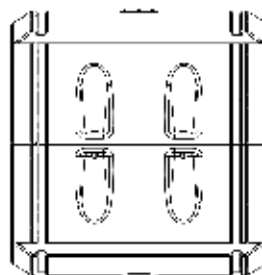
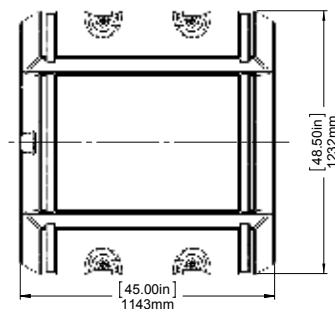
Base Model

SL-PF12



Base Model

SL-PF24



Base Model

• Specifications subject to change or variation without notice
 • Subject to standard terms and conditions
 † Intensity setting subject to solar availability





The Sealite buoy division provides turn-key production of navigation buoys from tooling development, raw material selection and production, to final testing and inspection.

Keeping this entire process in-house allows Sealite to guarantee the superior quality of its products and ensures fast turnaround times. Each buoy product is rotationally-moulded from UV-stabilised, virgin polyethylene, with individual components of Sealite's larger buoy products moulded in various colours to suit a range of IALA recommended configurations.

Benefits of Sealite Polyethylene Buoys:

- **High tensile strength** means increased impact and puncture resistance
- **Lightweight** for ease of deployment and maintenance
- **Premium grade virgin polyethylene** has never been processed before and is free from contaminants giving Sealite complete control over the quality of the buoys they manufacture
- **UV-stabilised** polyethylene gives the marine buoys additional protection from the degradation effects of UV exposure
- **Complex shapes are able to be moulded in one piece** making a robust product with excellent impact resistance
- **No painting is required** because they are manufactured using coloured pigments which permeate all the way through the polyethylene
- **Increased interval between servicing**
- **Routine maintenance on location** makes servicing easier and more economical
- **Buoys can be easily repaired** in the unlikely event of damage
- **Eco-friendly** - Sealite only uses polyethylene which is free from heavy metals and contains no toxic chemicals
- **Recyclable** - Made from 100% recyclable materials, this allows the buoys to be recycled at the end of their working life



Optional Mould-in Graphics



Graphics are able to be permanently moulded into the product during manufacture and will hold up under the most extreme environments.

The graphic is fully compatible with PE and is completely integrated into the polymer during moulding. No inks or foreign contaminants are used. This is especially important because when foreign materials are introduced into the polymer it can weaken the part.





Mooring Systems & Accessories

Mooring Systems

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Accessories

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Sealite can supply a range of mooring systems and accessories to compliment the extensive range of marine aids to navigation.

SeaMoor™, Sealite's advanced mooring calculator, has been developed to provide valued customers with a user-friendly PC application that identifies appropriate mooring systems for Sealite buoy installations. This service is available free of charge by contacting Sealite.



Synthetic Mooring Solutions

Nylon Mooring Lines



The Sealite Advantage

- High strength nylon 6.6 core with smooth stretch up to 20%
- Very flexible and lightweight and suitable with various attachment devices
- Easy to install with galvanised thimble eyelets embedded into the rubber casing. Heavy duty stainless steel thimbles also available on request
- The Mooring Line is UV stabilised and salt water resistant allowing it to be virtually maintenance free for years
- Abrasion/cut resistant rubber protects the inner nylon fibres from the elements and keeps out water, mud and creatures
- Friendly to the marine environment
- Special thimble eye configurations can be requested
- Individual serial numbers for easy traceability through the use of internal RFID

Sealite's synthetic mooring solutions provide a lightweight and environmentally sensitive alternative to traditional mooring chain and are ideal for many marine mooring applications. Unlike chain, the synthetic mooring solution minimises damage to the sea bed whilst the smooth stretch of the unique nylon core absorbs shock loads in the wave and tidal conditions of the marine environment. These unique mooring solutions are a perfect complement to Sealite's complete range of mooring and navigation buoys and can be used in many applications as a chain replacement.

Heavy duty construction

The mooring line incorporates load bearing nylon fibres laid in an endless, parallel lay construction into galvanised wire rope thimbles or high performance stainless steel thimbles.

The entire construction is covered in a vulcanised industrial rubber that protects the nylon core and thimbles from corrosion in salt and fresh water. The unique design of the embedded thimbles eliminates fraying of the nylon fibres, whilst the abrasion and cut resistant rubber is UV stabilised and salt water resistant allowing it to be virtually maintenance free for years.



Load bearing fibres protected by thick, black rubber skin

Lightweight design

The use of nylon and rubber materials makes the mooring line very flexible and lightweight whilst maintaining break strains consistent with traditional chain. The lightweight solution means handling, installation and servicing is made easier with a reduction in heavy lifting and deployment equipment.

Tailored to suit various requirements

The Sealite synthetic mooring line is a high performance solution, best suited for marine conditions and environments.

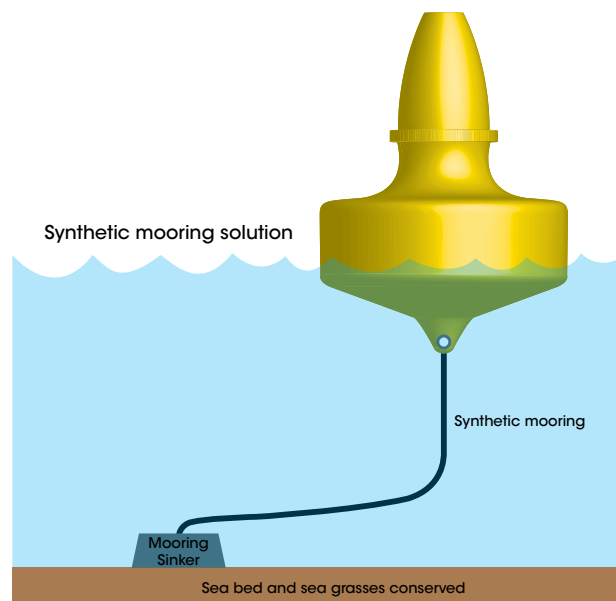
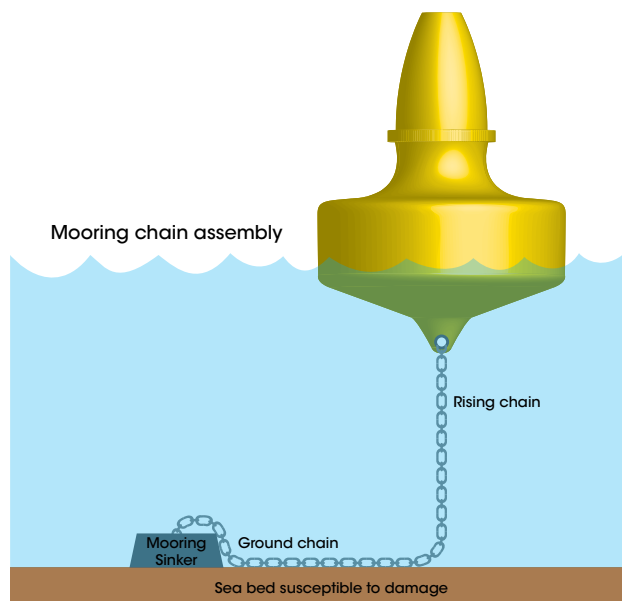
With over 50 different types available, the Sealite synthetic mooring solution has carved a strong place in the market and is perfect for use in rivers, lakes, estuaries, harbours, bays and oceans.

Single lengths range from 300mm to standard 20 metres along with the option of joining multiple lengths to suit any application. Break strengths range from 4 tonne through to 100 tonne.



Environmentally friendly

The Sealite synthetic mooring solution provides an environmentally friendly and long-lasting alternative to traditional chain and fibre rope mooring systems which can damage the sea bed and are detrimental to the marine environment. This is due to the positive buoyancy of the mooring line which floats versus the effect of ground chain around the mooring anchor.



Weights per length by Breaking Strain								
Break Strength ¹	4 ton	8 ton	12 ton	20 ton	30 ton	50 ton	70 ton	100 ton
4 meter length	4kg	5kg	5kg	6kg	10kg	17kg	20kg	29kg
6 meter length	5kg	6kg	6kg	8kg	12kg	20kg	25kg	36kg
10 meter length	8kg	7kg	9kg	12kg	18kg	32kg	40kg	55kg
15 meter length	11kg	9kg	11kg	16kg	25kg	43kg	59kg	79kg
20 meter length	12kg	12kg	14kg	21kg	30kg	56kg	78kg	102kg
A.S. 1138 GalvanizEd Thimble size	22mm	22mm	24mm	28mm	36mm	44mm	52mm	52mm
Stainless 316 heavy duty steel thimble option	19mm	19mm	19mm	25mm	N/A	N/A	N/A	N/A

• Specifications subject to change or variation without notice

* Subject to standard terms and conditions

1. Break strength is the applied load at which the mooring stop fails

Higher break strengths up to 100t and different lengths up to 20 metres standard and longer lengths available on request

HOW TO ORDER

Synthetic Mooring Solutions

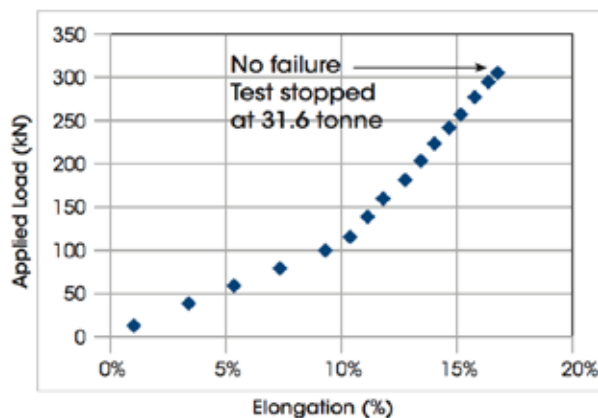
Product No.: SL-SM-[tonne]-[length]-[thimble]

Break Strength: 4, 8, 12, 20, 30, 50, 70 or 100 = tonne

Mooring length: From 3-20 = Length of mooring (metres)

Thimble size: 22, 24, 28, 36, 44 or 52 = Galvanised thimble size (mm)
19 or 25 = Stainless thimble size (mm)

Applied load vs elongation (%)



Break strength is the applied load at which the mooring line fails

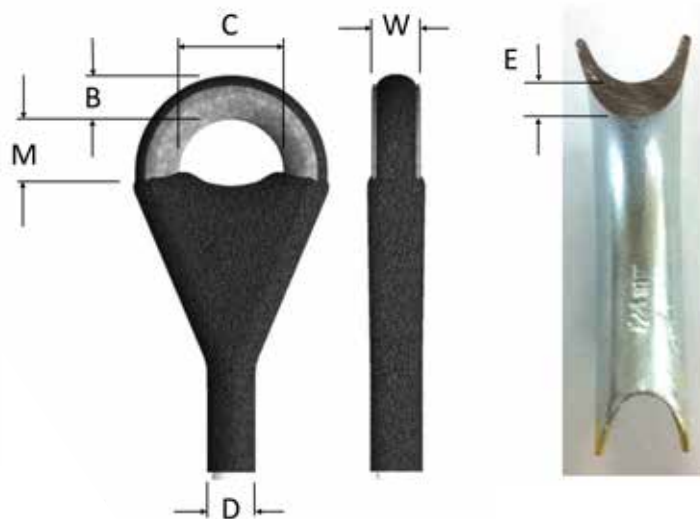
Applied load vs Elongation (%) curves vary for different sized mooring lines and for different eye combinations Note: Applied Load of 294kN is roughly 30,000kgf. A 30t Break strength mooring line fails above this applied load

Synthetic Mooring Solutions

Thimbles



Typical attachment
configuration of mooring strop



Standard Galvanised Thimbles

Break Strength ¹	4 tonne	8 tonne	12 tonne	20 tonne	30 tonne	50 tonne	70 tonne	100 tonne
Galvanised Thimble Size to AS1138	Type 22mm	Type 22mm	Type 24mm	Type 28mm	Type 36mm	Type 44mm	Type 52mm	Type 52mm
C	56mm	56mm	64mm	76mm	105mm	125mm	140mm	140mm
B	30mm	30mm	32mm	34mm	40mm	60mm	60mm	60mm
M Note: rubber flaps in thimbles can be trimmed to suit	45mm	45mm	48mm	60mm	70mm	70mm	100mm	100mm
D	22mm	22mm	32mm	36mm	46mm	58mm	70mm	70mm
W	32mm 38mm with rubber sides	32mm 38mm with rubber sides	34mm 38mm with rubber sides	38mm 42mm with rubber sides	48mm 52mm with rubber sides	62mm 66mm with rubber sides	72mm 76mm with rubber sides	72mm 76mm with rubber sides
E	10mm	10mm	11mm	14mm	16mm	18mm	20mm	20mm

• Specifications subject to change or variation without notice

* Subject to standard terms and conditions

1. Break strength is the applied load at which the recovery strop fails

Thimble dimensions can vary within the AS1138 Standards and rubber trimming dimensions are approximate due to the manufacturing process

Optional Stainless Steel Thimbles

Break Strength ¹	4 tonne	8 tonne	12 tonne	20 tonne
316 Stainless Steel heavy duty thimble	Type 3/4" (19mm)	Type 3/4" (19mm)	Type 3/4" (19mm)	Type 1" (25mm)
C	52mm	52mm	52mm	64mm
B	30mm	30mm	30mm	34mm
M Note: rubber flaps in thimbles can be trimmed to suit	46mm	46mm	46mm	50mm
D	26mm	30mm	32mm	36mm
W	32mm 36mm with rubber sides	32mm 36mm with rubber sides	32mm 36mm with rubber sides	40mm 45mm with rubber sides
E	6mm	6mm	6mm	7mm

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* Subject to standard terms and conditions

1. Break strength is the applied load at which the recovery strop fails

Thimble dimensions can vary within the AS1138 Standards and rubber trimming dimensions are approximate due to the manufacturing process



Complete Mooring Solutions

Chain, Hardware & Sinkers



The Sealite Advantage

- Convenient, complete mooring solution to suit every Sealite buoy type
- Range of sizes, grades, and configurations
- Includes chain, hardware and mooring sinkers
- Can be shipped with buoys to provide turnkey solution

Sealite can provide turn-key mooring solutions for the range of buoy products, enabling complete systems to be containerised and delivered to customer sites around the world.

Convenient turnkey solution

The delivery of a complete turnkey system provides customers with a single-source supply, and a convenient solution to their floating navigation aid requirements.

Tailored to suit specific requirements

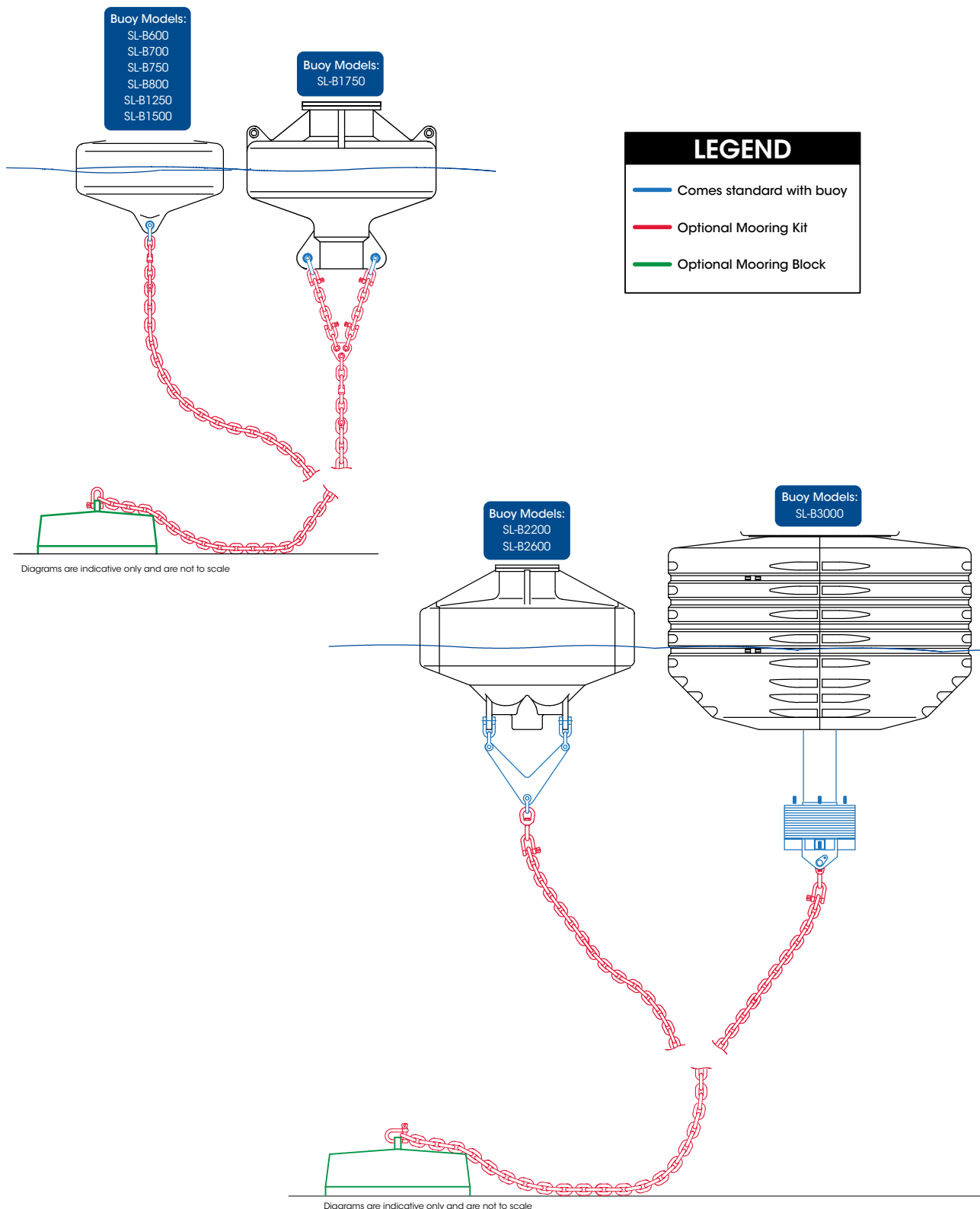
Mooring systems are designed to specifically suit Sealite buoys and their unique environments, taking into consideration buoy type, water depth, current speed, and other operational parameters.

The complete systems include chain, mooring sinkers and associated hardware in various grades and sizes.



Mooring solutions are calculated using Sealite's advanced mooring calculator





Complete Mooring Solutions

Mooring Kits

Mooring Kits — including chain, shackles & swivels		
Order Code	Description	To Suit Buoy
To suit SL-B600 Buoys		
SL-M-10-00-G-01	Mooring Solution, c/w 1 x 5 Mtrs 10mm Grade L Galvanised Open Link Chain, 3 x 13mm D Galvanised Grade M Shackles and 1 x 10mm Grade M eye to eye Swivel.	SL-B600
SL-M-10-00-G-02	Mooring Solution, c/w 2 x 5 Mtrs 10mm Grade L Galvanised Open Link Chain, 4 x 13mm D Galvanised Grade M Shackle and 1 x 10mm Grade M eye to eye Swivel.	SL-B600
SL-M-10-00-G-03	Mooring Solution, c/w 3 x 5 Mtrs 10mm Grade L Galvanised Open Link Chain, 5 x 13mm D Galvanised Grade M Shackle and 1 x 10mm Grade M eye to eye Swivel.	SL-B600
To suit SL-B700 Buoys		
SL-M-10-01-G-01	Mooring Solution, c/w 1 x 5 Mtrs 10mm Grade L Galvanised Open Link Chain, 1 x 16mm D Galvanised Grade M Shackle, 2 x 13mm D Galvanised Grade M Shackles and 1 x 13mm Grade M eye to eye Swivel.	SL-B700
SL-M-10-01-G-02	Mooring Solution, c/w 2 x 5 Mtrs 10mm Grade L Galvanised Open Link Chain, 1 x 16mm D Galvanised Grade M Shackle, 3 x 13mm D Galvanised Grade M Shackles and 1 x 13mm Grade M eye to eye Swivel.	SL-B700
SL-M-10-01-G-03	Mooring Solution, c/w 3 x 5 Mtrs 10mm Grade L Galvanised Open Link Chain, 1 x 16mm D Galvanised Grade M Shackle, 4 x 13mm D Galvanised Grade M Shackles and 1 x 13mm Grade M eye to eye Swivel.	SL-B700
To suit SL-B750 & AQUAFLOAT-800 Buoys		
SL-M-16-00-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 16mm Stud Link Chain Grade U2 Black with 1 x 16mm Grade U2 eye to eye Swivel attached, 1 x 16mm Joining Shackle Grade U2 Black and 1 x 22mm D Shackle Grade M Galvanised.	SL-B750 AQUAFLOAT-800 (SL-B800)
SL-M-16-00-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 16mm Stud Link Chain Grade U2 Black with 1 x 16mm Grade U2 eye to eye Swivel attached, 2 x 16mm Joining Shackle Grade U2 Black and 1 x 22mm D Shackle Grade M Galvanised.	SL-B750 AQUAFLOAT-800 (SL-B800)
SL-M-16-00-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 16mm Stud Link Chain Grade U2 Black with 1 x 16mm Grade U2 eye to eye Swivel attached, 3 x 16mm Joining Shackle Grade U2 Black and 1 x 22mm D Shackle Grade M Galvanised.	SL-B750 AQUAFLOAT-800 (SL-B800)
SL-M-20-00-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 20.5mm Stud Link Chain Grade U2 Black with 1 x 20mm Grade U2 eye to eye Swivel attached, 1 x 20mm Joining Shackle Grade U2 Black and 1 x 22mm D Shackle Grade M Galvanised.	SL-B750 AQUAFLOAT-800 (SL-B800)
SL-M-20-00-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 20.5mm Stud Link Chain Grade U2 Black with 1 x 20mm Grade U2 eye to eye Swivel attached, 2 x 20mm Joining Shackle Grade U2 Black and 1 x 22mm D Shackle Grade M Galvanised.	SL-B750 AQUAFLOAT-800 (SL-B800)
SL-M-20-00-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 20.5mm Stud Link Chain Grade U2 Black with 1 x 20mm Grade U2 eye to eye Swivel attached, 3 x 20mm Joining Shackle Grade U2 Black and 1 x 22mm D Shackle Grade M Galvanised.	SL-B750 AQUAFLOAT-800 (SL-B800)
To suit SL-B1250 Buoys		
SL-M-16-01-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 16mm Stud Link Chain Grade U2 Black with 1 x 16mm Grade U2 eye to eye Swivel attached and 2 x 16mm Joining Shackle Grade U2 Black.	SL-B1250
SL-M-16-01-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 16mm Stud Link Chain Grade U2 Black with 1 x 16mm Grade U2 eye to eye Swivel attached and 3 x 16mm Joining Shackle Grade U2 Black.	SL-B1250
SL-M-16-01-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 16mm Stud Link Chain Grade U2 Black with 1 x 16mm Grade U2 eye to eye Swivel attached and 4 x 16mm Joining Shackle Grade U2 Black.	SL-B1250
To suit SL-B1500 Buoys		
SL-M-26-00-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 26mm Stud Link Chain Grade U2 Black with 1 x 26mm Grade U2 eye to eye Swivel attached, 2 x 26mm Joining Shackle Grade U2 Black.	SL-B1500
SL-M-26-00-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 26mm Stud Link Chain Grade U2 Black with 1 x 26mm Grade U2 eye to eye Swivel attached, 3 x 26mm Joining Shackle Grade U2 Black.	SL-B1500
SL-M-26-00-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 26mm Stud Link Chain Grade U2 Black with 1 x 26mm Grade U2 eye to eye Swivel attached, 4 x 26mm Joining Shackle Grade U2 Black.	SL-B1500
SL-M-32-00-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye Swivel attached, 2 x 32mm Joining Shackle Grade U2 Black.	SL-B1500
SL-M-32-00-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye Swivel attached, 3 x 32mm Joining Shackle Grade U2 Black.	SL-B1500
SL-M-32-00-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye Swivel attached, 4 x 32mm Joining Shackle Grade U2 Black.	SL-B1500

• Specifications subject to change or variation without notice
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Mooring Kits — including chain, shackles & swivels

Order Code	Description	To Suit Buoy
To suit POSEIDON-1750 Buoys		
SL-M-26-01-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 26mm Stud Link Chain Grade U2 Black with 1 x 26mm Grade U2 eye to eye POSEIDON-1750 (SL-B1750) Swivel attached, 2 x 1 Mtr 26mm Chain, 8 x 25mm Grade S D Shackle, 1 x Mooring Bridle Plate.	
SL-M-26-01-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 26mm Stud Link Chain Grade U2 Black with 1 x 26mm Grade U2 eye to eye POSEIDON-1750 (SL-B1750) Swivel attached, 1 x 26mm Grade U2 Joining Shackle, 2 x 1 Mtr 26mm Chain, 8 x 25mm Grade S D Shackle, 1 x Mooring Bridle Plate.	
SL-M-26-01-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 26mm Stud Link Chain Grade U2 Black with 1 x 26mm Grade U2 eye to eye POSEIDON-1750 (SL-B1750) Swivel attached, 2 x 26mm Grade U2 Joining Shackle, 2 x 1 Mtr 26mm Chain, 8 x 25mm Grade S D Shackle, 1 x Mooring Bridle Plate.	
SL-M-32-03-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye POSEIDON-1750 (SL-B1750) Swivel attached, 2 x 1 Mtr 26mm Chain, 8 x 25mm Grade S D Shackle, 1 x Mooring Bridle Plate.	
SL-M-32-03-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye POSEIDON-1750 (SL-B1750) Swivel attached, 1 x 26mm Grade U2 Joining Shackle, 2 x 1 Mtr 26mm Chain, 8 x 25mm Grade S D Shackle, 1 x Mooring Bridle Plate.	
SL-M-32-03-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye POSEIDON-1750 (SL-B1750) Swivel attached, 2 x 26mm Grade U2 Joining Shackle, 2 x 1 Mtr 26mm Chain, 8 x 25mm Grade S D Shackle, 1 x Mooring Bridle Plate.	
To suit NAUTILUS-2200 & ATLANTIC-2600 Buoys		
SL-M-32-02-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye NAUTILUS-2200 (SL-B2200) Swivel attached and 1 x 32mm Joining Shackle Grade U2 Black	ATLANTIC-2600 (SL-B2600)
SL-M-32-02-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye NAUTILUS-2200 (SL-B2200) Swivel attached and 2 x 32mm Joining Shackle Grade U2 Black	ATLANTIC-2600 (SL-B2600)
SL-M-32-02-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye NAUTILUS-2200 (SL-B2200) Swivel attached and 3 x 32mm Joining Shackle Grade U2 Black	ATLANTIC-2600 (SL-B2600)
SL-M-38-00-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 38mm Stud Link Chain Grade U2 Black with 1 x 38mm Grade U2 eye to eye NAUTILUS-2200 (SL-B2200) Swivel attached, 1 x 38mm Joining Shackle Grade U2 Black.	ATLANTIC-2600 (SL-B2600)
SL-M-38-00-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 38mm Stud Link Chain Grade U2 Black with 1 x 38mm Grade U2 eye to eye NAUTILUS-2200 (SL-B2200) Swivel attached, 2 x 38mm Joining Shackle Grade U2 Black.	ATLANTIC-2600 (SL-B2600)
SL-M-38-00-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 38mm Stud Link Chain Grade U2 Black with 1 x 38mm Grade U2 eye to eye NAUTILUS-2200 (SL-B2200) Swivel attached, 3 x 38mm Joining Shackle Grade U2 Black.	ATLANTIC-2600 (SL-B2600)
To suit TRIDENT-3000 Buoys		
SL-M-32-01-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 2 x 32mm Joining Shackle Grade U2 Black and 1 x 42mm eye to eye swivel Grade U2, black.	
SL-M-32-01-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 3 x 32mm Joining Shackle Grade U2 Black and 1 x 42mm eye to eye swivel Grade U2, black.	
SL-M-32-01-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 32mm Stud Link Chain Grade U2 Black with 1 x 32mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 4 x 32mm Joining Shackle Grade U2 Black and 1 x 42mm eye to eye swivel Grade U2, black.	
SL-M-38-01-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 38mm Stud Link Chain Grade U2 Black with 1 x 38mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 2 x 38mm Joining Shackle Grade U2 Black and 1 x 42mm eye to eye swivel Grade U2, black.	
SL-M-38-01-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 38mm Stud Link Chain Grade U2 Black with 1 x 38mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 3 x 38mm Joining Shackle Grade U2 Black and 1 x 42mm eye to eye swivel Grade U2, black.	
SL-M-38-01-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 38mm Stud Link Chain Grade U2 Black with 1 x 38mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 4 x 38mm Joining Shackle Grade U2 Black and 1 x 42mm eye to eye swivel Grade U2, black.	
SL-M-42-00-B-01	Mooring Solution, c/w 1 x 27.5 Mtrs 42mm Stud Link Chain Grade U2 Black with 1 x 40mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 1 x 40mm Joining Shackle Grade U2 Black.	
SL-M-42-00-B-02	Mooring Solution, c/w 2 x 27.5 Mtrs 42mm Stud Link Chain Grade U2 Black with 1 x 40mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 2 x 40mm Joining Shackle Grade U2 Black.	
SL-M-42-00-B-03	Mooring Solution, c/w 3 x 27.5 Mtrs 42mm Stud Link Chain Grade U2 Black with 1 x 40mm Grade U2 eye to eye TRIDENT-3000 (SL-B3000) Swivel attached, 3 x 40mm Joining Shackle Grade U2 Black.	

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

Mooring Hardware

Chain, Shackles & Swivels



The Sealite Advantage

- Galvanised or black finish
- Range of grades
- Sizes from 10mm to 42mm
- Standard chain shot lengths
- Range of shackle types
- Range of swivel types

In addition to offering complete mooring solutions to complement each Sealite buoy product, Sealite also offers a range of mooring hardware such as chain, shackles and swivels for individual purchase as required.

Chain		
Order Code	Description	Weight per length
CHAIN, GRADE L, GALVANISED		
SL-CHAIN-10-L-ST-GAL	Chain, 10mm, Grade L, Galvanised, 5 Mtr length	11kg
CHAIN, GRADE U2, BLACK		
SL-CHAIN-16-U2-SL-BLK	Chain, 16mm, Grade U2, Black, c/w swivel, 27.5mtr length	150kg
SL-CHAIN-20-U2-SL-BLK	Chain, 20.5mm, Grade U2, Black, c/w swivel 27.5mtr length	285kg
SL-CHAIN-26-U2-SL-BLK	Chain, 26mm, Grade U2, Black, c/w swivel 27.5mtr length	431kg
SL-CHAIN-32-U2-SL-BLK	Chain, 32mm, Grade U2, Black c/w swivel 27.5mtr length	635kg
SL-CHAIN-38-U2-SL-BLK	Chain, 38mm, Grade U2, Black c/w Swivel, 27.5mtr length	888kg
SL-CHAIN-42-U2-SL-BLK	Chain, 42mm, Grade U2, Black, c/w swivel, 27.5mtr length	1084kg
CHAIN, GRADE U3, BLACK		
SL-CHAIN-26-U3-SL-BLK	Chain, 26mm, Grade U3, Black, c/w swivel 27.5mtr length	TBA

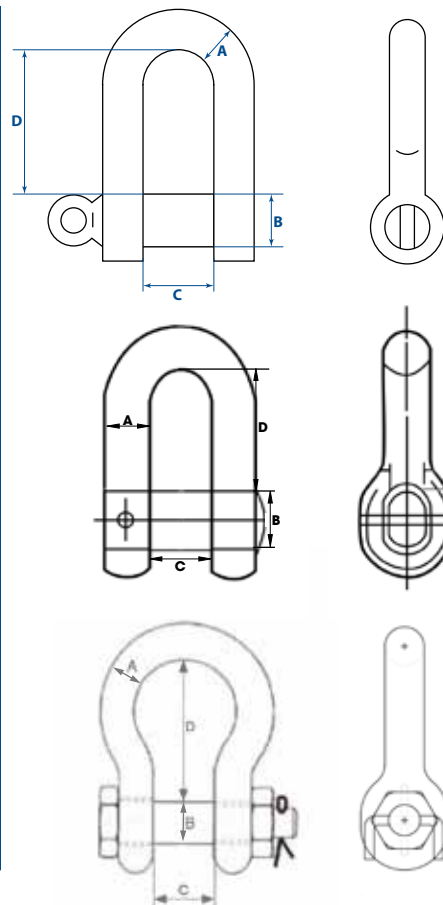
Note: All measurements are in mm. All dimesions are approximate
Specifications subject to change or variation without notice
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Shackle Dimensions

Order Code	Description	A	B	C	D
SHACKLE, DEE, GRADE M, GALVANISED					
SL-SHACKLE-13-M-D-GAL	Shackle, 13mm, Grade M, D, Galvanised	13	16	28	54
SL-SHACKLE-16-M-D-GAL	Shackle, 16mm Grade M, D, Galvanised	16	20	31	61
SL-SHACKLE-22-M-D-GAL	Shackle, 22mm, Grade M, D, Galvanised	22	25	44	83
SL-SHACKLE-25-M-D-GAL	Shackle, 25mm, Grade M, D, Galvanised	25	32	55	104
SL-SHACKLE-25-S-D-GAL	Shackle, 25mm, Grade S, D, Galvanised	25	29	43	81
SL-SHACKLE-32-M-D-GAL	Shackle, 32mm, Grade M, D, Galvanised	32	35	60	114
SL-SHACKLE-32-S-D-GAL	Shackle, 32mm, Grade S, D, Galvanised	32	35	52	100
SHACKLE, JOINING, GRADE U2, BLACK					
SL-SHACKLE-16-U2-J-BLK	Shackle, 16mm, Grade U2, Joining, Black	20	27	24	53
SL-SHACKLE-20-U2-J-BLK	Shackle, 20mm, Grade U2, Joining, Black	27	39	27	65
SL-SHACKLE-26-U2-J-BLK	Shackle, 26mm, Grade U2, Joining, Black	33	41	36	88
SL-SHACKLE-32-U2-J-BLK	Shackle, 32mm, Grade U2, Joining, Black	44	51	45	109
SL-SHACKLE-38-U2-J-BLK	Shackle, 38mm, Grade U2, Joining, Black	49	60	53	129
SL-SHACKLE-42-U2-J-BLK	Shackle, 42mm, Grade U2, Joining, Black	57	70	58	140
SHACKLE, LOCKING, BOW SAFETY, GALVANISED					
SL-SHACKLE-32-12-BLGAL	Shackle, 32mm, 12T, Bow, Galvanised	32	35	51	115
SL-SHACKLE-38-17-BLGAL	Shackle, 38mm, 17T, Bow, Galvanised	38	42	60	146

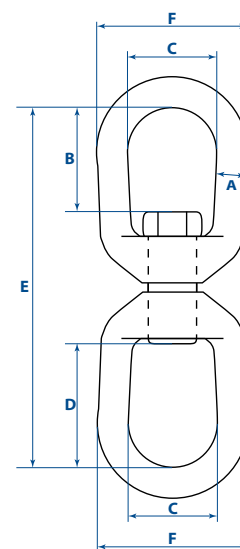
Note: All measurements are in mm. All dimensions are approximate
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Swivel Dimensions

Order Code	Description	A	B	C	D	E	F
SWIVEL, EYE & EYE, GRADE M, GALVANISED							
SL-SWIVEL-10-M-EE-GAL	Swivel, 10mm, Grade M, Eye & Eye, Galvanised	10	26	25	35	110	52
SL-SWIVEL-13-M-EE-GAL	Swivel, 13mm, Grade M, Eye & Eye, Galvanised	13	34	30	46	63	63
SL-SWIVEL-16-M-EE-GAL	Swivel, 16mm, Grade M, Eye & Eye, Galvanised	16	40	44	60	138	76
SWIVEL, EYE & EYE, GRADE U2, BLACK							
SL-SWIVEL-16-U2-EE-BLK	Swivel, 16mm, Grade U2, Eye & Eye, Black	16	48	22	49	289	64
SL-SWIVEL-26-U2-EE-BLK	Swivel, 26mm, Grade U2, Eye & Eye, Black	26	80	38	80	470	105
SL-SWIVEL-32-U2-EE-BLK	Swivel, 32mm, Grade U2, Eye & Eye, Black	32	105	53	105	590	135
SL-SWIVEL-42-U2-EE-BLK	Swivel, 42mm, Grade U2, Eye & Eye, Black	42	135	66	138	777	170

Note: All measurements are in mm. All dimensions are approximate
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Mooring Sinkers

Cast Iron or Concrete



The Sealite Advantage

- Range of mooring sinkers in various weights & sizes
- Available in concrete or cast iron

Sealite's has a selection of concrete and cast iron mooring sinkers available in various weights and sizes.

Mooring Sinkers		
Order Code	Description	Size (LxWxH)(mm)
MOORING SINKERS, CONCRETE		
SL-MW-C-115	Mooring Sinker Concrete 115KG	550x550x160
SL-MW-C-180	Mooring Sinker Concrete 180KG	550x550x250
SL-MW-C-400	Mooring Sinker Concrete 400KG	900x900x250
SL-MW-C-1000	Mooring Sinker Concrete 1000KG	1220x1220x320
SL-MW-C-1800	Mooring Sinker Concrete 1800KG	1500x1500x370
SL-MW-C-3000	Mooring Sinker Concrete 3000KG	1700x1700x600
SL-MW-C-3600	Mooring Sinker Concrete 3600KG	1800x1800x505
MOORING SINKERS, CAST IRON		
SL-MW-I-100	Mooring Sinker Cast Iron 100KG	550x330x90
SL-MW-I-250	Mooring Sinker Cast Iron 250KG	640x425x160
SL-MW-I-350	Mooring Sinker Cast Iron 350KG	730x500x170
SL-MW-I-500	Mooring Sinker Cast Iron 500KG	840x600x165
SL-MW-I-1000	Mooring Sinker Cast Iron 1000KG	1100x860x170
SL-MW-I-2000	Mooring Sinker Cast Iron 2000KG	1400x1000x240
SL-MW-I-2500	Mooring Sinker Cast Iron 2500KG	1400x1000x300
SL-MW-I-3000	Mooring Sinker Cast Iron 3000KG	1500x1200x300
SL-MW-I-3500	Mooring Sinker Cast Iron 3500KG	1500x1200x350
SL-MW-I-5000	Mooring Sinker Cast Iron 5000KG	1800x1400x330

Note: All measurements are in mm. All dimensions are approximate



Mooring Calculator

SeaMoor™

Ask us how we can supply your complete mooring solution



Sealite can provide turn-key mooring solutions for the range of buoy products enabling complete systems to be containerised and delivered to customer sites around the world.

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

Known as SeaMoor™, this facility is available free of charge by contacting Sealite.

The system simulates site mooring based on the following easy steps:

Step 1. Select Buoy Model

Customers select which Sealite buoy they are planning to use in their installation.

Step 2. Select Water Depth

Customers select the water depth of their proposed installation.

Step 3. Confirm Recommended Chain Size

The calculator will recommend a chain size at this point, which the customer can either confirm or choose a larger or smaller size. The calculator will perform simulations based on this data.

Step 4. Set Maximum Wind Speed

Users enter the likely maximum wind speed. Wind speed will affect the buoy performance in different ways, depending on the exposed wind area of the navaid.

Step 5. Set Maximum Current

Customer enter the maximum water speed, which will affect both the buoy and the chain.

Step 6. Simulate Chain Length

The calculator will recommend a chain length at this point, based on the available information entered. Customers can adhere to this information or select their own length and the calculator will perform simulations based on this data.

Step 7. Simulate Sinker Mass

The calculator will recommend a sinker mass, based on the available information entered. Customers can adhere to this information or select their own mass and the calculator will perform simulations based on this data.

The calculator will then simulate navaid mooring using all of this available data, and produce a parts list of required components.

The Sealite Advantage

- Complete range of mooring chain & accessories to compliment Sealite buoy products
- IALA recommended mooring solutions calculated with Sealite advanced SeaMoor™ mooring calculator
- Flexibility in manufacture to meet various installation requirements & local conditions
- One-stop for all marine AtoN equipment



SeaMoor™ Mooring Calculator

SeaMoor™ - 1.0.0.10

Sealite®
www.sealite.com

Sealite mooring calculations for the Sealite range of polyethylene buoys are based on typical industry use by our own users and are to be used as a guideline only. Each mooring may be subject to differing local conditions.

☐ IALA Calculations, May 1998
☐ IALA Calculations, May 2009
☐ Sealite Calculations, August 2009
☐ Mooring Parts List

Mooring Setup

● **Step 1. Select Buoy Model**
 Neutilus 2200
 Reserve Buoyancy: 1050 kg
 Wind Area: 3.35 m²
 Water Area: 0.85 m²

Step 2. Select Water Depth (m)
 Recommended no more than 75.0 m
 Low Tide: 20 Max: 75

Step 3. Select Chain Size
 Suggested Size: 25mm
 26mm - Grade 2, stud link
 Air Weight: 14.7 kg/m
 Proof Load: 28.3 tonnes

Step 4. Set Maximum Wind Speed (kts)
 20

Step 5. Set Maximum Water Speed (kts)
 2

Step 6. Set Simulation Chain Length (m)
 Recommended no less than 150.0 m
 150

Step 7. Set Simulation Sinker Mass (kg)
 Recommended no less than 3500kg
 3500

Buoy Location: 70.2 m
Draft: 0.89 m

Peak Chain Force (N): 8932
Minimum Proof Load (tonne): 4.6
Chain Force (N): 474

Sinker Location: 1.34 m

Reset Simulation

Select buoy type and installation parameters to view mooring simulation

Buoy Location indicates an approximate watch circle given the mooring chain length and total water depth

Buoy Depth indicates how deep the buoy will float in the water (draft)

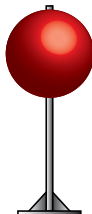
Users can check that the Proof Load listed in Step 3 is greater than the Minimum Proof Load. Heavier chain may be required to ensure this

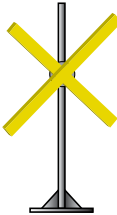
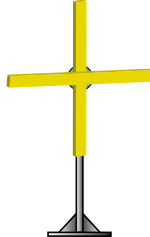
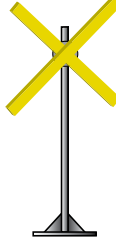
By changing the various mooring parameters (eg. chain length) users can visualise the affect on the installation

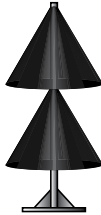
Shows a list of recommended parts for mooring Sealite's buoy



Top Marks & Accessories

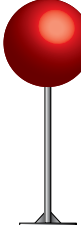
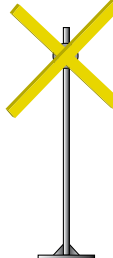
Top Mark - 1 (970mm)					REGION A
Mark Type	Port Hand	Starboard Hand	Safe Water	Isolated Danger	970mm
Mounting	Side or Top Mount	Side or Top Mount	Side or Top Mount	Top Mount	
Suitable Lights	SL-60 SL-70 SL-125	SL-60 SL-70 SL-125	SL-60 SL-70 SL-125	SL-60 SL-70	
					
Part Number	SL-TM1-PH-A	SL-TM1-SH-A	SL-TM1-SW	SL-TM1-ISO	
Suitable Buoys	SL-B1250 POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	SL-B1250 POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	SL-B1250 POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	SL-B1250 SL-B1500	

Top Mark - 1 (970mm)					REGION A
Mark Type	Wreck	Special	Wreck	Special	970mm
Mounting	Top Mount	Top Mount	Side Mount	Side Mount	
Suitable Lights	SL-60 SL-70	SL-60 SL-70	SL-60 SL-70 SL-125 SL-C310	SL-60 SL-70 SL-125 SL-C310	
					
Part Number	SL-TM1-WM	SL-TM1-SM	SL-TM1-WM1	SL-TM1-SM1	
Suitable Buoys	SL-B1250 SL-B1500	SL-B1250 SL-B1500	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	

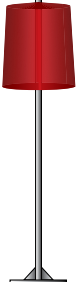
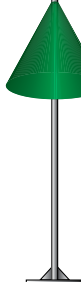
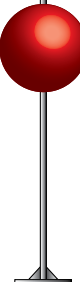
Top Mark - 1 (970mm)					REGION A
Mark Type	North Cardinal	South Cardinal	East Cardinal	West Cardinal	970mm
Mounting	Top Mount	Top Mount	Top Mount	Top Mount	
Suitable Lights	SL-60 SL-70	SL-60 SL-70	SL-60 SL-70	SL-60 SL-70	
					
Part Number	SL-TM1-CARDN	SL-TM1-CARDS	SL-TM1-CARDE	SL-TM1-CARDW	
Suitable Buoys	SL-B1250 SL-B1500	SL-B1250 SL-B1500	SL-B1250 SL-B1500	SL-B1250 SL-B1500	

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Top Mark - 2 (1200mm)							REGION A
Mark Type	Port Hand	Starboard Hand	Safe Water	Isolated Danger	Special	Wreck	1200mm
Mounting	Side Mount	Side Mount	Side Mount	Side Mount	Side Mount	Side Mount	
Suitable Lights	SL-C415 SL-C420-GSM	SL-C415 SL-C420-GSM	SL-C415 SL-C420-GSM	SL-125 SL-C310	SL-C310 SL-C410	SL-C310 SL-C410 SL-C420	
							
Part Number	SL-TM2-PH-A	SL-TM2-SHA	SL-TM2-SW	SL-TM2-ISO	SL-TM2-SM	SL-TM2-WM	
Suitable Buoys	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	

Top Mark - 2 (1200mm)					REGION A
Mark Type	North Cardinal	South Cardinal	East Cardinal	West Cardinal	1200mm
Mounting	Side Mount	Side Mount	Side Mount	Side Mount	
Suitable Lights	SL-125 SL-C310 SL-155 Series	SL-125 SL-C310 SL-155 Series	SL-125 SL-C310 SL-155 Series	SL-125 SL-C310 SL-155 Series	
					
Part Number	SL-TM2-CARDN	SL-TM2-CARDS	SL-TM2-CARDE	SL-TM2-CARDW	
Suitable Buoys	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	

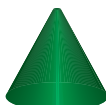
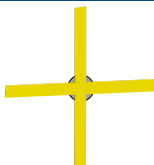
Top Mark - 3 (1500mm)									REGION A
Mark Type	Port Hand	Starboard Hand	Safe Water	Isolated Danger	North Cardinal	South Cardinal	East Cardinal	West Cardinal	1500mm
Mounting	Side Mount	Side Mount	Side Mount	Side Mount	Side Mount	Side Mount	Side Mount	Side Mount	
Suitable Lights	SL-C600	SL-C600	SL-C600	SL-C420-GSM	SL-C415 SL-C420-GSM	SL-C415 SL-C420-GSM	SL-C415 SL-C420-GSM	SL-C415 SL-C420-GSM	
									
Part Number	SL-TM3-PH-A	SL-TM3-SH-A	SL-TM3-SW	SL-TM3-ISO	SL-TM3-CARDN	SL-TM3-CARDS	SL-TM3-CARDE	SL-TM3-CARDW	
Suitable Buoys	TRIDENT-3000	TRIDENT-3000	TRIDENT-3000	NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	

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Top Marks & Accessories



Individual Top Mark Parts									
									
Part Number	SL-TM-CAN-[Colour]	SL-TM-CONE-[Colour]	SL-TM-SPHERE-[Colour]	SL-TM-CROSS					
Top Mark Stands – Powder Coated Aluminium					Top Mark Stands - SS				
Suitable Lights & Mounting Cages	SL-125 SL-C310 SL-MC-22	SL-125 SL-C310 SL-MC-22	SL-125 SL-C310 SL-MC-22	SL-125 SL-C310 SL-MC-22	SL-C310 SL-C410 SL-C420 SL-MC-24 SL-MC-28 SL-MC-39 SL-MC-40	SL-C310 SL-C410 SL-C420 SL-MC-24 SL-MC-28 SL-MC-39 SL-MC-40			
	Note: not suitable for Cardinal Marks 	Note: not suitable for Cardinal Marks 	Note: not suitable for Cardinal Marks 	 650mm	 700mm	 970mm	 970mm		
Part Number	SL-TM4-POST	SL-TM4-POST	SL-TM4-SM	SL-TM5-SM	SL-TM6-POST	SL-TM6-SM			
Suitable Buoys	SL-B800 SL-B1250 POSEIDON-1750	SL-B800 SL-B1250 POSEIDON-1750	SL-B800 SL-B1250 POSEIDON-1750	SL-B800 SL-B1250	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000			
Mounting Cages – Stainless Steel									
Suitable Lights	SL-125	SL-125-AIS	SL-C310	SL-C410 SL-C415 SL-420 SL-C420-GSM					
Suitable Top Mark Stand	SL-TM6-POST	SL-TM6-POST	SL-TM6-POST	SL-TM6-POST					
	  	  	  	  					
Part Number	SL-MC-40	SL-MC-39	SL-MC-28	SL-MC-24					
Suitable Buoys	SL-B1250 SL-B1500 POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	SL-B1250 SL-B1500 POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	SL-B1250 SL-B1500 POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000	SL-B1250 SL-B1500 POSEIDON-1750 NAUTILUS-2200 ATLANTIC-2600 TRIDENT-2600 TRIDENT-3000					

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



Part Number	Description	Part Number	Description
SL-MC-01	Post mounting plate to suit SL-07 & SL-15 • 50mm ID	SL-MC-14	316-grade stainless steel bolt set to suit SL-15 hardware • M5 x 20mm
SL-MC-02	Post mounting plate to suit standard base SL-60 • 50mm ID	SL-MC-15	316-grade stainless steel bolt set to suit standard base SL-60 hardware • M4 x 20mm
SL-MC-03	Post mounting plate to suit 200mm bolt pattern lanterns including SL-60LB, SL-70, SL-C310, SL-C410, SL-C415, SL-C420, SL-125 & BargeSafe™ Solar • 50mm ID	SL-MC-16	316-grade stainless steel bolt set to suit SL-70 & SL-125 hardware • M8 x 25mm
SL-MC-04	Post mounting stand to suit SL-50 & SL-23 series • 50mm OD post • 3-hole 200mm bolt pattern	SL-MC-17	316-grade stainless steel bolt set to suit SL-C310, SL-C410, SL-C415 & SL-C420 hardware • M8 x 40mm
SL-MC-05	90 degree wall mounting stand • 50mm OD	SL-MC-18	316-grade stainless steel bolt set to suit SL-C500 & SL-C600 hardware • M8 x 20mm
SL-MC-07	Adapter plate to suit SL-C500 • 200mm bolt pattern mount	SL-MC-25	Stainless steel top mark lantern mount. For SL-60 & SL-70 lanterns. Suits stainless steel top mark stands
SL-MC-08	Adapter plate to suit SL-C600 • 200mm bolt pattern mount	SL-T-01	Sealite Tool Kit (complete including battery chargers), includes: 1x Tool Box - polycarbonate 1x small flat bladed screwdriver 1x medium Phillips Head screwdriver 1x 5mm Allen key t-bar 1x 6mm Allen key t-bar 1x 3mm Allen key t-bar 1x 13mm combination spanner 1x flash adjustment access tool 1x 5/8 long series socket 1x 50gm marine grease tube 1x battery charger to suit NiMH batteries 1x battery charger to suit SLA batteries Spare Parts: 2x 20mm bungs
SL-MC-09	Buoy mounting plate to affix SL-15 lantern to SL-B600 & SL-B700 buoys		
SL-MC-10	Buoy mounting plate to affix standard base SL-60 lantern to SL-B600 & SL-B700 buoys		
SL-MC-11	Buoy mounting plate to affix SL-70 lantern to SL-B600 & SL-B700 buoys		
SL-MC-13	Lantern spacer • Converts 3/4 hole mounting patterns • 200mm bolt pattern		
SL-MC-13HD	Heavy duty lantern spacer • Converts 3/4 hole mounting patterns • 200mm bolt pattern		



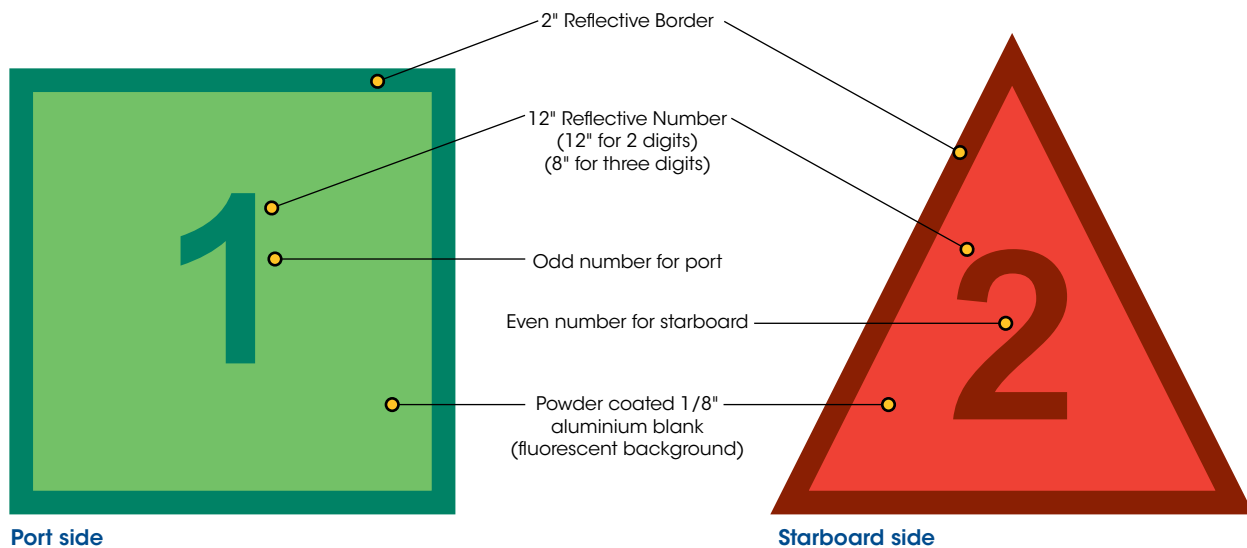
• Specifications subject to change or variation without notice
• Subject to standard terms and conditions



SL-T-01 Sealite Tool Kit

Lateral Use Daymarks

SL-DM Series



Port side

Starboard side

The Sealite Advantage

- Heavy-duty aluminum blank
- Marine grade powder coated
- Two mounting holes on center
- Scotchlite reflective vinyl border
- No charge customer numbering
- USCG 1NM sizes standard
- 36" x 36" port side in stock
- 48" x 48" starboard side in stock
- 1/2 sizes available for private aids
- Custom signage available

Sealite USA manufacture a large range of lateral use daymarks including USCG 1NM sized daymarks as standard.

Custom sizes and configurations are also available for private aids such as marina and yacht club use. These daymarks do not meet USCG standards for visibility size and are not accepted for PATON use.

Please check with your local regulatory agency to determine if USCG acceptance is required, or contact Sealite for assistance.



ORDER CODES: SL-DM Series

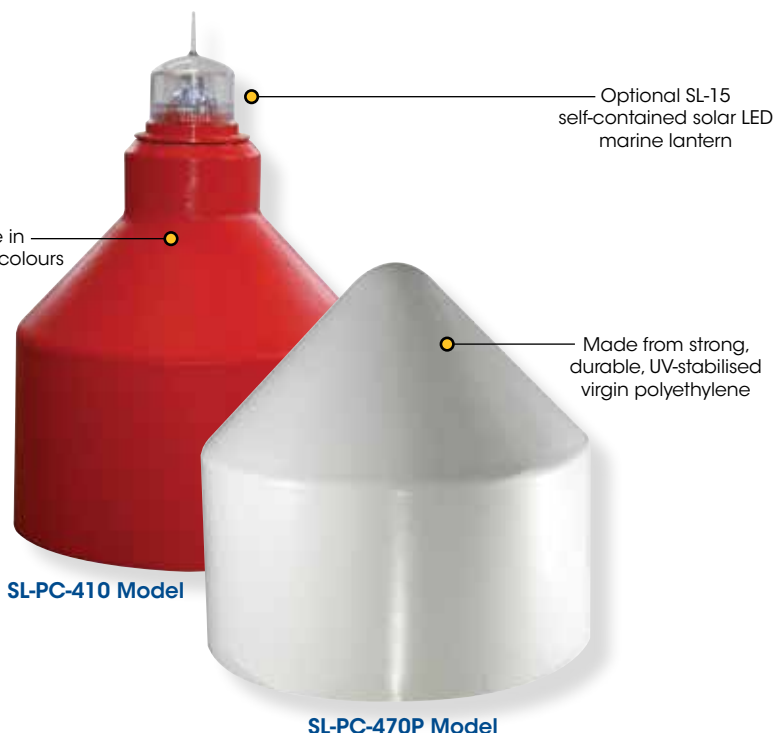
SL-DM36	Portside USCG 1NM Daymark 36" x 36"
SL-DM48	Starboard USCG 1NM Daymark 48" x 48"
SL-DM18	Half-Size Square Daymark 18" x 18"
SL-DM24	Half-Size Triangle Daymark 24" x 24"

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





Available in
high visibility colours



The Sealite Advantage

- Strong polyethylene construction
- Rotationally moulded
- High visibility red, green, white, blue or yellow as per IALA recommendations
- Easy to install
- Optional SL-15 solar LED marine lantern for safe day and night navigation (SL-PC-410 Model only)



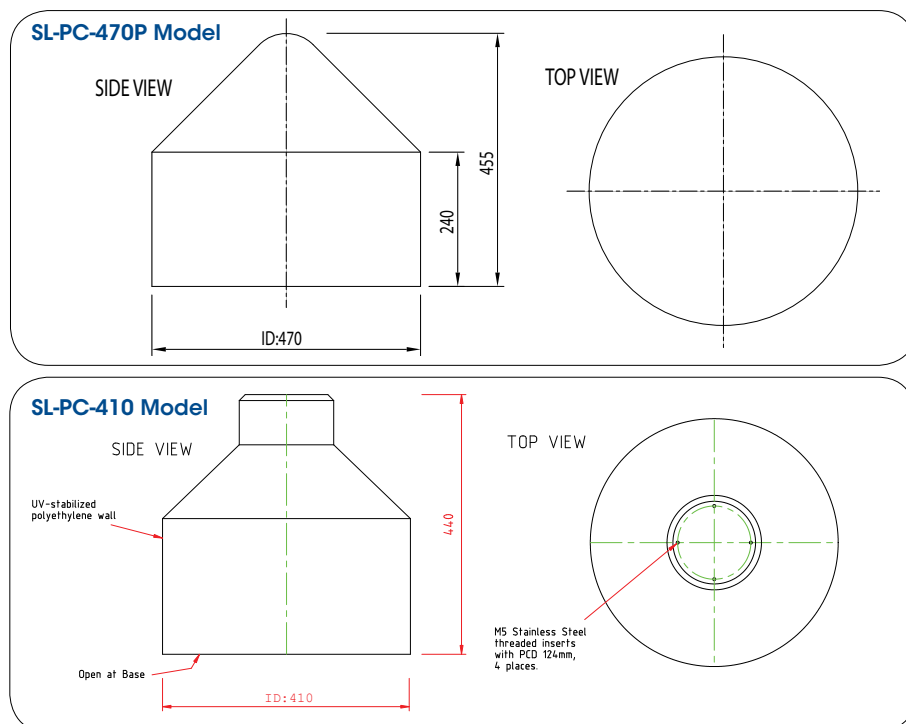
Optional
Mould-in Graphics
Available

Sealite's pile caps can be used for domestic pontoons and commercial marinas to create a safe and visually appealing docking facility. They are constructed from strong polyethylene and are available in a range of high visibility colours.

Manufactured from strong, UV-stabilised polyethylene the caps are able to stand up to the harsh marine environment. The pile cap keeps rain out of the top of timber piles helping to prevent rot to extend the life of the pile.

Sealite's pile caps are rotationally moulded as a single piece with a wall thickness of 4mm - increasing strength and ensuring a robust and functional product. The pile caps are fitted to the top of the pile and, while extremely strong and durable, are flexible enough to make installing simple.

The SL-PC-410 model can be fitted with an optional SL-15 self-contained, solar LED marine lantern. The lantern is equipped with a bird spike to prevent birds roosting. The lighted pile caps provide high day and night visibility and are available in red, green, white, blue or yellow. During daylight hours the solar module will charge the battery, and the lantern will automatically begin operation at dusk - once the ambient light threshold drops sufficiently.



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



Marine Lanterns

Port Entry &
Range Lights

Barge &
Bridge Lights

Area Lighting

Monitoring &
Control Systems

Marine Buoys

Mooring Systems
& Accessories

Power Systems

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Sealite offers a range of power supply systems for both solar and mains powered applications to compliment their extensive range of marine products.

A selection of regulators, solar panels and batteries are also available.

Solar Power Supply Solutions

10–180 watt models



The Sealive Advantage

- Power supplies available in multiple configurations & sizes to suit various applications
- Solar panel tilt angle can be set to suit geographical location
- Custom designs available for larger systems or specific installation requirements
- Easy to install and service

Sealive offers a range solar power supplies to suit stand-alone navigation aid installations, such as marine lanterns and precision sector lights.

The solar power supplies are available in multiple configurations, including various battery and solar sizing, and self-contained or modular options.

In addition, Sealive can provide customised designs for unique installation requirements.

Solar Power Supplies

Electrical Characteristics & Specifications * *

Model	SL-PS-12-10-7.5	SL-PS-12-20-26	SL-PS-12-40-26	SL-PS-12-40-55
Solar Panel (W)	10W	20W	40W	40W
Battery Size (Ah)	7.5Ah	26Ah	26Ah	55Ah

Model	SL-PS-12-60-55	SL-PS-12-90-110	SL-PS-12-140-110	SL-PS-12-180-110
Solar Panel (W)	60W	90W	140W	180W (2x 90W)
Battery Size (Ah)	55Ah	110Ah	110Ah	110Ah

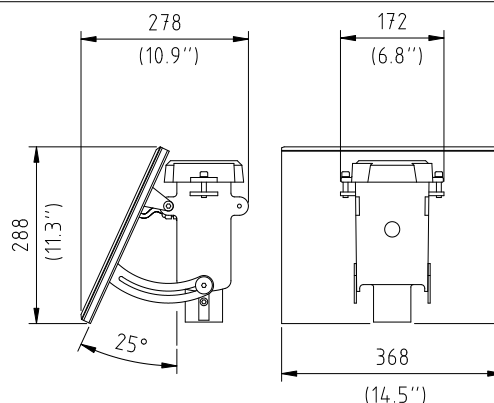
Model	SL-PS-12-270-110	SL-PS-12-90-220	SL-PS-12-140-220	SL-PS-12-180-220
Solar Panel (W)	270W (3x 90W)	90W	140W	180W (2x 90W)
Battery Size (Ah)	110Ah	220Ah	220Ah	220Ah

Model	SL-PS-12-180-440	SL-PS-12-270-220	SL-PS-12-280-330	SL-PS-12-560-330
Solar Panel (W)	180W (2x 90W)	270W (3x 90W)	280W (2x 140W)	560W (4x 140W)
Battery Size (Ah)	440Ah	220Ah	330Ah	330Ah

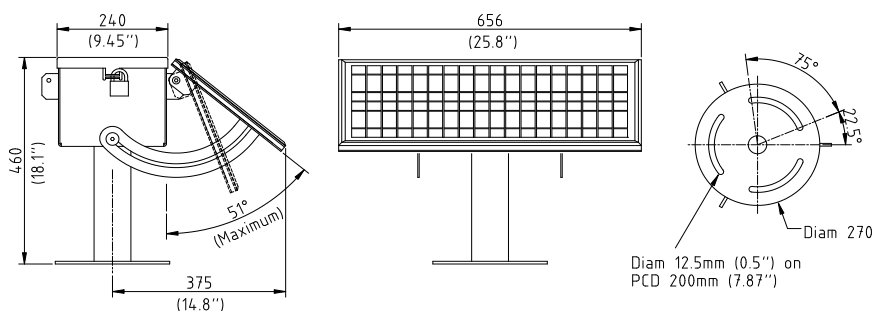
* Specifications subject to change or variation without notice
* Subject to standard terms and conditions

SL-PS-12-10-7.5**10 watt power supply, includes;**

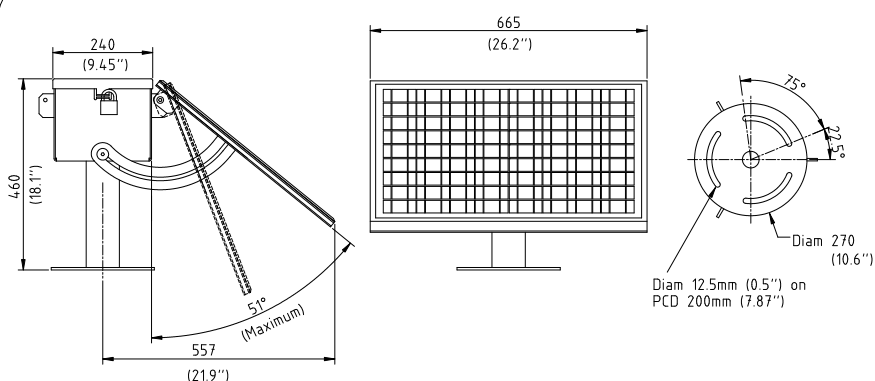
- 1 x 10 watt solar panel
- 1 x 7.5Ah battery
- Delivers 0.58 Amp/hour
- Solar charge controller
- Weatherproof battery housing
- 16mm cable gland in mounting spigot
- Additional 16mm tapped hole with blanking plug

**SL-PS-12-20-26****20 watt power supply, includes;**

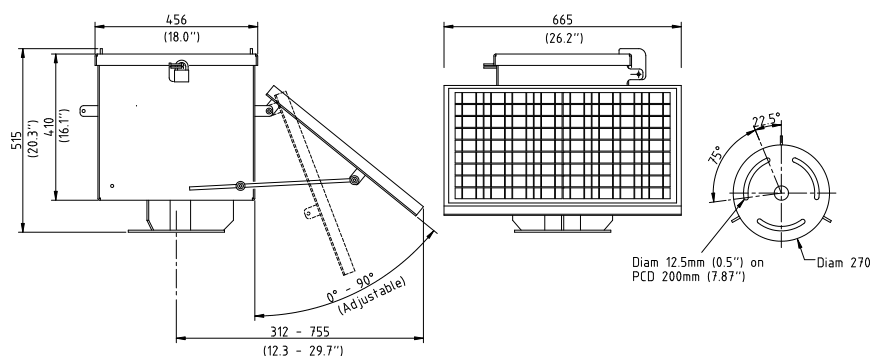
- 1 x 20 watt solar panel
- 1 x 26Ah battery
- Delivers 1.16 Amp/hour
- Solar charge controller
- Weatherproof battery housing
- 16mm cable gland cable access

**SL-PS-12-40-26****40 watt power supply, includes;**

- 1 x 40 watt solar panel
- 1 x 26Ah battery
- Delivers 2.32 Amp/hour
- Solar charge controller
- Weatherproof battery housing
- 16mm cable gland cable access

**SL-PS-12-40-55****40 watt power supply, includes;**

- 1 x 40 watt solar panel
- 1 x 55Ah battery
- Delivers 2.32 Amp/hour
- Solar charge controller
- Weatherproof battery housing
- Lockable powder coated battery box c/w 200mm bolt pattern mount - Type 2 series
- 16mm cable gland access



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



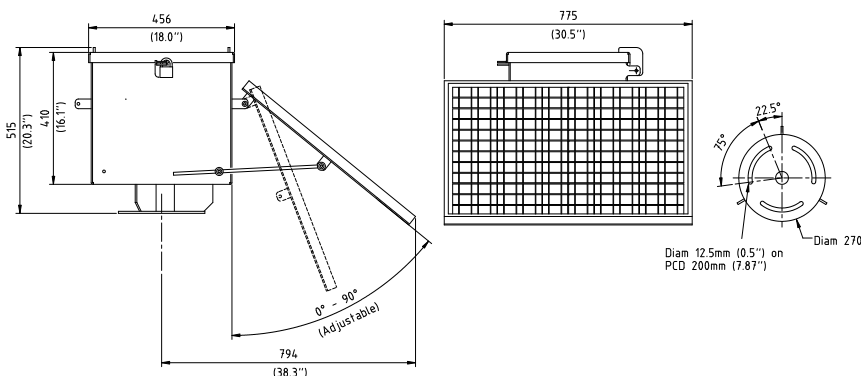
Solar Power Supply Solutions

10-180 watt models

SL-PS-12-65-55

65 watt power supply, includes;

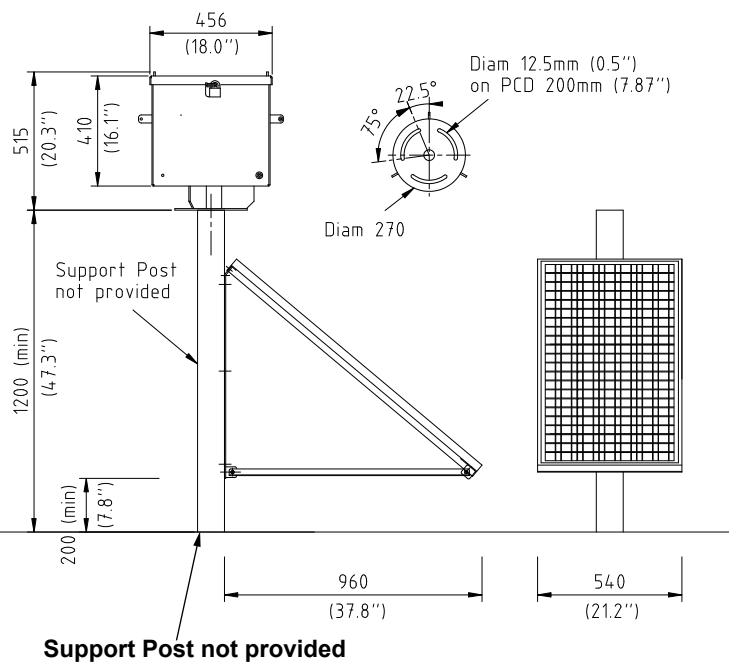
- 1 x 65 watt solar panel
- 1 x 55Ah battery
- Delivers 3.44 Amp/hour
- Solar charge controller
- Weatherproof battery housing
- Lockable powder coated battery box c/w 200mm bolt pattern mount - Type 2 series



SL-PS-12-90-110

90 watt power supply, includes;

- 1 x 90 watt solar panel c/w wall mounting bracket
- 1 x 110Ah batteries
- Delivers 5.17 Amp/hour
- Solar charge controller
- Weatherproof battery housing
- Lockable powder coated battery box c/w 200mm bolt pattern mount - Type 2 series
- 3mtr cabling to solar module & fixtures

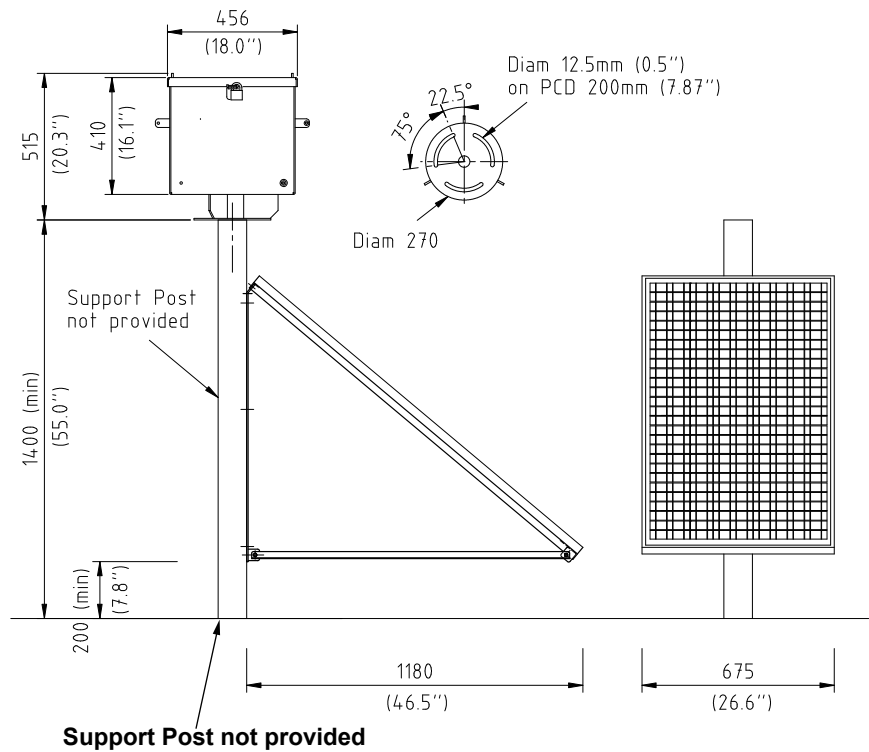


• Specifications subject to change or variation without notice
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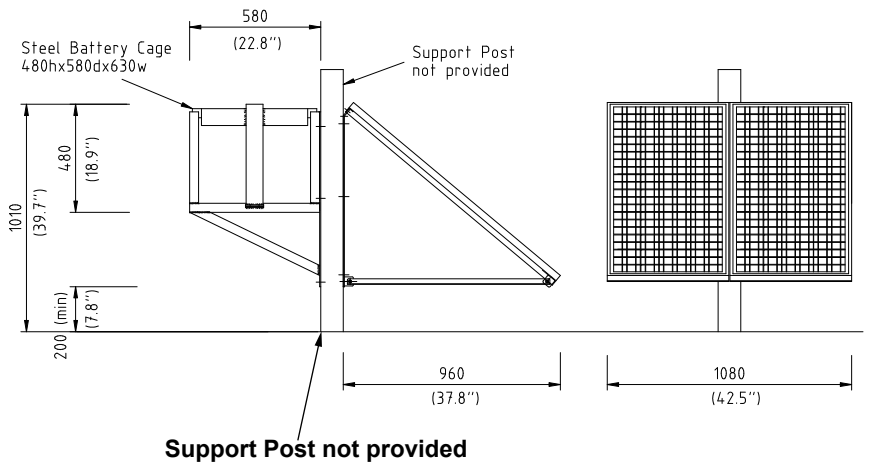


SL-PS-12-140-110**140 watt power supply, includes:**

- 1 x 140 watt solar panel c/w wall mounting bracket
- 1 x 110Ah battery
- Delivers 8.14 Amp/hour
- Solar charge controller
- Weatherproof battery housing
- Lockable powder coated battery box c/w 200mm bolt pattern mount - Type 2 series
- 3mtr cabling to solar module & fixtures

**SL-PS-12-180-220****180 watt power supply, includes:**

- 2 x 90 watt solar panel c/w wall mounting bracket
- 2 x 110Ah batteries
- Delivers 10.34 Amp/hour
- Solar charge controller
- Weatherproof battery housing
- Lockable powder coated battery cage (wall mounting)
- 3mtr cable to solar module & fixtures



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

Universal Mains Power Supply Solutions

The Sealite Advantage

- Power supplies available in various sizes to suit your application
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- DC OK relay contact
- 100% full load burn-in test

Universal Mains Power Supplies

Electrical Characteristics & Specifications* *

Model	SL-PS-UM-12-40	SL-PS-UM-12-60	SL-PS-UM-12-120	SL-PS-UM-24-60	SL-PS-UM-24-240
DC Voltage (V)	12V	12V	12V	24V	24V
Rated Power (W)	40W	60W	120W	60W	240W
Mains Voltage (VAC)	85~264VAC	85~264VAC	85~264VAC	85~264VAC	88~264VAC
Mains Frequency (Hz)	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz
Operating Temperature	-20°C to 70°C	-20°C to 70°C	-25°C to 70°C	-20°C to 70°C	-25°C to 70°C

Model	SL-PS-UM-24-480	SL-PS-UM-24-960	SL-PS-UM-48-240	SL-PS-UM-48-480
DC Voltage (V)	24V	24V	48V	48V
Rated Power (W)	480W	960W	240W	480W
Mains Voltage (VAC)	90~264VAC *	180~264VAC *	88~264VAC	90~264VAC *
Mains Frequency (Hz)	47~63Hz	47~63Hz	47~63Hz	47~63Hz
Operating Temperature	-25°C to 70°C	-30°C to 70°C	-25°C to 70°C	-25°C to 70°C

* Specifications subject to change or variation without notice

* Subject to standard terms and conditions

Derating may be needed under low input voltage. Please contact Sealite for more details

Uninterruptable Power Supplies

The Sealite Advantage

- Power supplies available in various sizes to suit your application
- Multi-step charging
- Fully automatic for optimal charging

Uninterruptable Power Supplies

Electrical Characteristics & Specifications* *

Model	SL-UPS-12-1-26	SL-UPS-12-4-26	SL-UPS-12-6-26	SL-UPS-12-7-55
DC Voltage (V)	12V	12V	12V	12V
Max Charging Current (A)	0.8A	3.6A	6A	7A
Battery Capacity (Ah)	26Ah	26Ah	26Ah	55Ah
Voltage	220~240VAC, 50~60Hz	220~240VAC, 50~60Hz	220~240VAC, 50~60Hz	220~240VAC, 50~60Hz
Operating Temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C

Model	SL-UPS-12-10-55	SL-UPS-12-10-110	SL-UPS-12-25-220	SL-UPS-24-14-55
DC Voltage (V)	12V	12V	12V	24V
Max Charging Current (A)	10A	10A	25A	14A
Battery Capacity (Ah)	55Ah	110Ah	220Ah	55Ah
Voltage	220~240VAC, 50~60Hz	220~240VAC, 50~60Hz	220~240VAC, 50~60Hz	170~260VAC, 50~60Hz
Operating Temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C

* Specifications subject to change or variation without notice

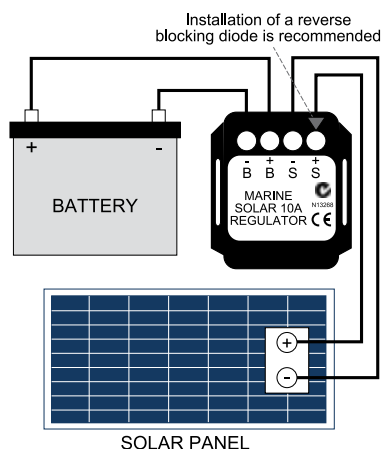
* Subject to standard terms and conditions

Marine Solar Regulator

SL-REG-10

PRODUCT COMPATIBILITY CONFIGURATION

Solar Panel Sizes: 10 - 85 W



The Sealite Advantage

- Charges a wide range of batteries
- Marine grade casing
- Easy to install

The Sealite Marine Solar Regulator is ideal for marine installations. The regulator acts as an intelligent switch between the battery terminal and the solar panel.

Sealite's Marine Solar Regulator can be connected to solar panels with a combined current of up to 10 Amps. The regulator will switch the current supply on or off from the solar panel to keep the battery voltage maximized. It will charge a wide range of Lead Acid, SLA and Gel batteries from solar panels.

The Sealite Marine Solar Regulator can be used in solar systems to regulate the recharging of all 12V batteries used in marine situations.

Note: If solar module is not equipped with a blocking diode it is important that one be fitted.

SPECIFICATIONS * *	SL-REG-10
Electrical Characteristics	
Max Supply Charge (Amps)	10
Supply Current (mA)	1.2
Full Charge Cut In (V)	12.4
Full Charge Cut Off (V)	14.2
Trickle Charge Cut In (V)	13.4
Trickle Charge Cut Off (V)	13.8
Max. Cable Diameter (mm)	Ø4.0
Physical Characteristics	
Dimensions (mm)	70 x 60 x 30
Mass (g)	73
Certifications	
Quality Assurance	ISO9001:2000
Intellectual Property	
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	1 year



* Specifications subject to change or variation without notice



12V Solar Panels

High efficiency, multicrystalline PV modules

The Sealite Advantage

- 25 year limited warranty
- Nominal 12VDC for standard output
- High efficiency
- Outstanding low light performance
- Heavy-duty anodized frames

High Efficiency Multicrystalline PV Modules

Electrical Characteristics & Specifications* *

Model	SL-P005-12	SL-P010-12	SL-P020S-12	SL-P040-12	SL-P065-12	SL-P090S-12	SL-P140-12
Maximum power (Pmax)	5W	10W	20W	40W	65W	90W	140W
Voltage at Pmax (Vmp)	17.4V	17.0V	17.2V	17.2V	17.2V	17.4V	17.2V
Current at Pmax (Imp)	0.29A	0.58A	1.16A	2.32A	3.78A	5.17A	8.14A
Open-circuit voltage (Voc)	21.6V	21.6V	21.6V	21.6V	21.6V	21.5V	21.6V
Short-circuit current (Isc)	0.32A	0.68A	1.31A	2.57A	4.21A	5.48A	9.05A
Temperature coefficient of Voc	-(80±10)mV/°C						
Temperature coefficient of Isc	(0.065±0.015)%/°C						
Temperature coefficient of Power	-(0.5±0.05)%/°C						
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C						
Operating temperature	-40°C to 85°C						
Maximum system voltage	600V DC				1000V DC		
Power tolerance	±10%	+10%/-5% +10%/-5%				±3%	+10%/-5%
Cells	Monocrystalline silicon solar cell	Multicrystalline silicon solar cell	Monocrystalline silicon solar cell	Multicrystalline silicon solar cell		Monocrystalline silicon solar cell	Multicrystalline silicon solar cell
No. of cells and connections	36 (4 x 9)	36 (6 x 6)	36 (2 x 18)	36 (4 x 9)	36 (4 x 9)	36 (4 x 9)	72 (4 x 18)
Module dimension	216mm x 306mm x 18mm	310mm x 368mm x 18mm	656mm x 306mm x 18mm	665mm x 537mm x 30mm	774mm x 675mm x 35mm	1195mm x 541mm x 35mm	1482mm x 676mm x 35mm
Weight	0.8kg	2kg	2.38kg	4.5kg	6.7kg	8.4kg	12.25kg

* Specifications subject to change or variation without notice

* Subject to standard terms and conditions

STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C

NOCT: Nominal operating cell temperature (the data is only for reference)

12V Batteries

GEL Sealed Lead Acid



The Sealite Advantage

- 1 year warranty
- Suitable to airfreight
- Long service life for float or cyclic
- Maintenance-free, flame retardant case & cover

GEL Sealed Lead Acid Batteries

Electrical Characteristics & Specifications • * ^

Model	SL-B5-12	SL-B7-12	SL-B12-12	SL-B18-12	SL-B26-12	SL-B55-12	SL-B110-12
Terminal voltage	12V						
Nominal capacity at 20-25°C 20 hour rate	5Ah	7Ah	12Ah	18Ah	26Ah	55Ah	110Ah
Capacity at 0°C	75%						
Float charge at 20°C	13.6 – 13.8V						
Cyclic charge at 20°C	14.4V						
Dimensions (LxWxH)	90mm x 70mm x 101mm	151mm x 65mm x 99mm	150mm x 97mm x 96mm	181mm x 76mm x 167mm	168mm x 178mm x 124mm	229mm x 138mm x 213mm	329mm x 173mm x 209mm
Weight	1.4kg	2.3kg	3.7kg	5.5kg	8.4kg	17.3kg	32.6kg

• Specifications subject to change or variation without notice

* Subject to standard terms and conditions

^ Other sizes available in different regions. Contact Customer Service for details

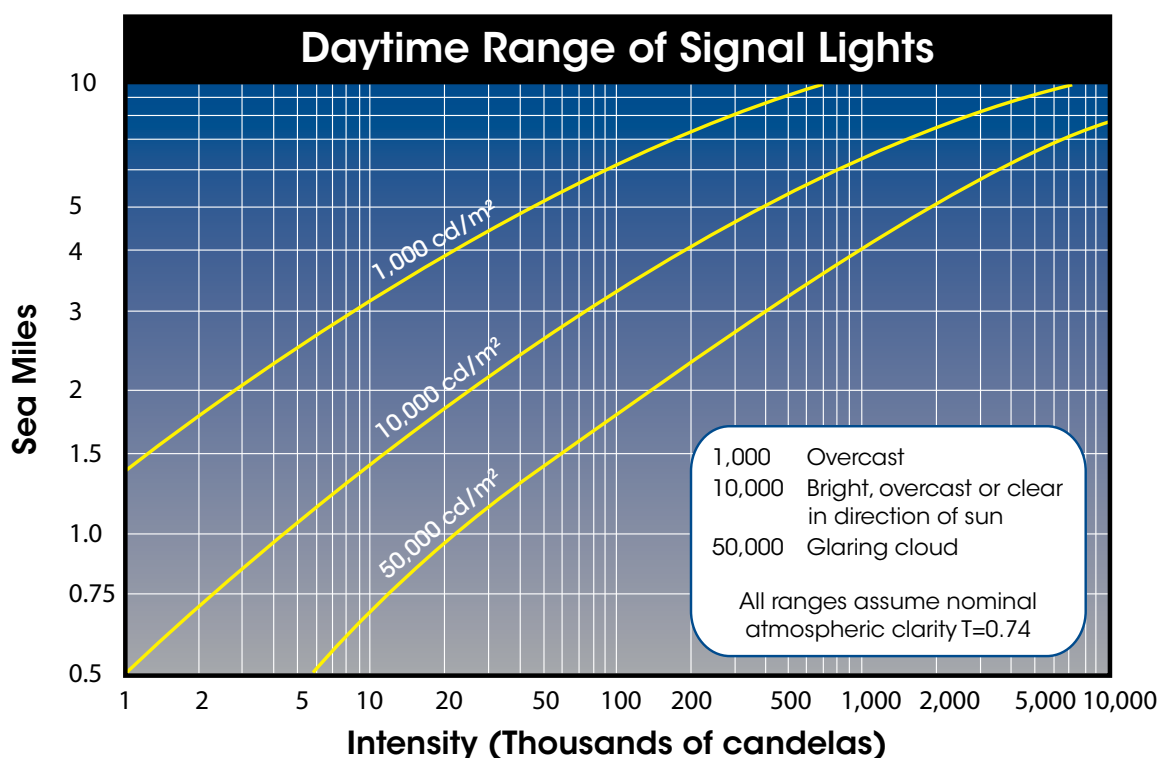


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Daytime Range of Signal Lights



Peak Intensity/Luminous Range Table for Daylight

Peak Intensity in Candelas (cd)	Range in Kilometers (km)	Range in Nautical Miles (NM) AT = 0.74
4,600	1.9	1
25,000	3.7	2
76,000	5.6	3
182,000	7.4	4
384,000	9.3	5
745,000	11.1	6
1,400,000	13.0	7
2,400,000	14.8	8
4,100,000	16.7	9
6,900,000	18.5	10

Some of the light energy emitted by a light source is absorbed by the atmosphere. The Atmospheric Transmission Factor (AT) indicates the light transmission per nautical mile through atmosphere. For example, AT = 74 means that when a light beam has travelled 1NM through the atmosphere, 74% of the original light intensity remains and the absorption loss is 26%.

The range figures in the table above assumes an eye illumination of 0.2 microlux and that the light source is free from interference by background lighting.

Peak Intensity/Luminous Range Table

for Darkness

Peak Intensity in Candelas (cd)	Range in Kilometers (km)	Range in Nautical Miles (NM) AT = 0.74	Range in Nautical Miles (NM) AT = 0.85
1	1.9	1.0	1.1
2	2.6	1.4	1.5
3	3.0	1.6	1.8
4	3.3	1.8	2.1
5	3.7	2.0	2.3
6	4.1	2.2	2.4
7	4.3	2.3	2.6
8	4.4	2.4	2.7
9	4.6	2.5	2.9
10	4.8	2.6	3.0
11	4.8	2.6	3.1
12	5.0	2.7	3.2
13	5.2	2.8	3.3
14	5.4	2.9	3.4
15	5.6	3.0	3.5
16	5.7	3.1	3.6
17	5.9	3.2	3.7
18	5.9	3.2	3.8
19	6.1	3.3	3.9
20	6.1	3.3	4.0
25	6.7	3.6	4.3
30	7.0	3.8	4.6
35	7.4	4.0	4.8
40	7.6	4.1	5.1
45	8.0	4.3	5.3
50	8.1	4.4	5.5
55	8.5	4.6	5.7
60	8.7	4.7	5.8
65	8.9	4.8	6.0
70	9.1	4.9	6.1
80	9.4	5.1	6.4
90	9.8	5.3	6.7
100	10.0	5.4	6.9
120	10.4	5.6	7.2
140	10.9	5.9	7.6
160	11.3	6.1	8.0
180	11.7	6.3	8.3
200	12.0	6.5	8.5
240	12.6	6.8	9.0
300	13.3	7.2	9.6
360	13.9	7.5	10.0
400	14.3	7.7	10.4
450	14.6	7.9	10.6
500	15.0	8.1	11.0

Peak Intensity in Candelas (cd)	Range in Kilometers (km)	Range in Nautical Miles (NM) AT = 0.74	Range in Nautical Miles (NM) AT = 0.85
550	15.2	8.2	11.3
600	15.6	8.4	11.6
650	15.9	8.6	11.8
700	16.1	8.7	12.0
800	16.5	8.9	12.4
900	17.0	9.2	12.8
1,000	17.4	9.4	13.2
1,200	18.1	9.8	13.8
1,500	18.9	10.2	14.5
1,800	19.6	10.6	15.2
2,000	20.0	10.8	15.5
2,200	20.4	11.0	15.8
2,400	20.7	11.2	16.1
2,700	21.1	11.4	16.5
3,000	21.7	11.7	16.9
3,500	22.2	12.0	17.5
4,000	22.6	12.2	17.9
5,000	23.5	12.7	18.8
6,000	24.3	13.1	19.5
7,000	25.0	13.5	20.0
8,000	25.6	13.8	20.5
9,000	26.1	14.1	21.0
10,000	26.5	14.3	21.4
15,000	28.2	15.2	23.0
20,000	29.4	15.9	24.1
30,000	31.1	16.8	25.8
40,000	32.4	17.5	27.0
50,000	33.5	18.1	28.0
70,000	35.0	18.9	29.4
100,000	36.7	19.8	31.0
150,000	38.5	20.8	32.8
200,000	39.8	21.5	34.1
300,000	41.9	22.6	35.9
400,000	43.2	23.3	37.2
500,000	44.3	23.9	38.3
700,000	45.9	24.8	39.9
1,000,000	47.6	25.7	41.5
1,500,000	49.6	26.8	43.5
2,000,000	51.1	27.6	44.9
3,000,000	53.0	28.6	46.8
4,000,000	54.4	29.4	48.2
5,000,000	55.6	30.0	49.4
7,000,000	57.4	31.0	51.0
10,000,000	59.1	31.9	52.8

Some of the light energy emitted by a light source is absorbed by the atmosphere. The Atmospheric Transmission Factor (AT) indicates the light transmission per nautical mile through atmosphere. For example, AT = 74 means that when a light beam has travelled 1NM through the atmosphere, 74% of the original light intensity remains and the absorption loss is 26%.

The range figures in the table above assumes an eye illumination of 0.2 microlux and that the light source is free from interference by background lighting.

Sealite Solar Calculator

Solar Installation Web Tool

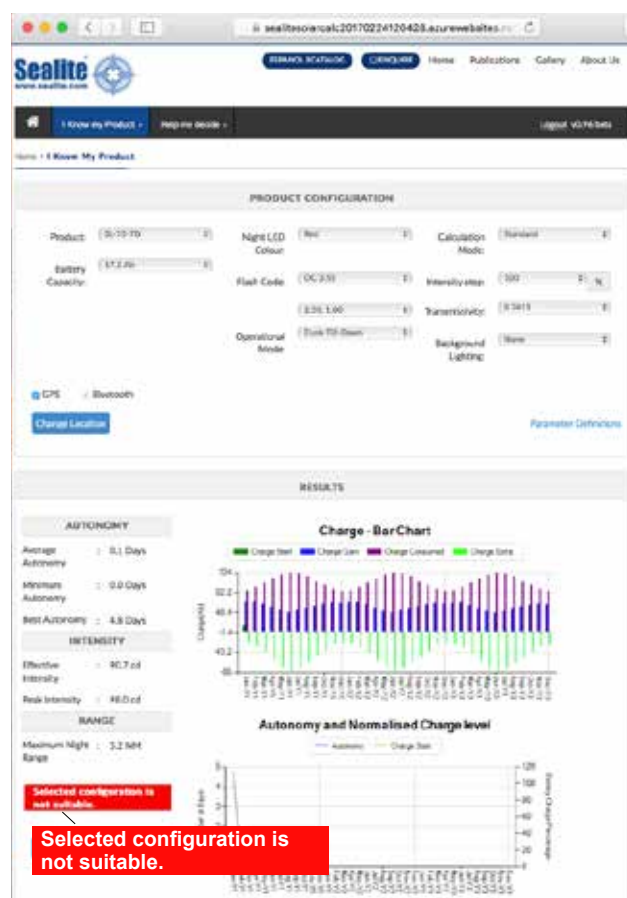
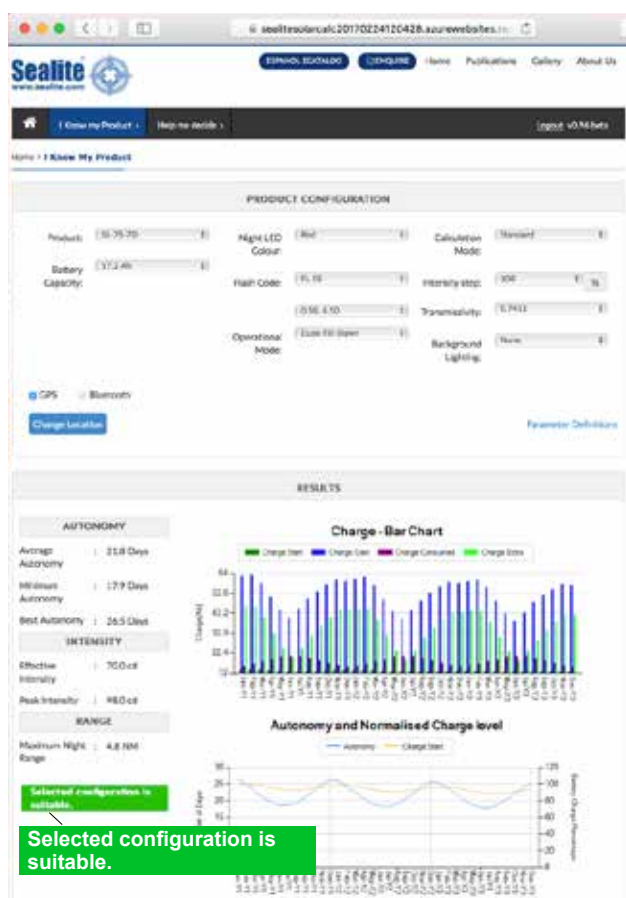
Sealite has developed an easy-to-use web tool to assist with the autonomy checking of Sealite's range of marine lanterns globally. The user can preselect their product (should they know it) or use the 'Help me decide' button to find the most suitable lantern for their location.



After entering the GPS co-ordinates manually or by selecting their location on the global map, the calculator will ask for the settings of the lanterns characteristics (colour, flash code, operational mode, calculation mode, Intensity and background lighting) be set.



With the data entered, the calculator will advise on the suitability of the lantern to operate in the preselected conditions, providing a green light if suitable and a red light if not.



Visit Sealite.com to view or ask your local Sealite representative for more information.

IALA Maritime Buoyage System

Who is IALA?

Established in 1957, IALA (International Association of Marine Aids and Lighthouse Authorities) is a non-profit international technical association. IALA provides nautical expertise and advice. IALA encourages its members to work together to harmonise aids to navigation worldwide and to ensure the movements of vessels are safe, expeditious and cost effective whilst simultaneously protecting the environment.

One of the ways IALA achieves this is by establishing technical committees which bring together experts from more than 80 countries around the world. The work of these committees is to develop recommendations on technologies and practices which are available in publications such as IALA Recommendations and Guidelines. Sealite is proud to be an IALA member which ensures our products are compliant.

IALA is chiefly known for its buoyage system. As early as 1976, there were more than 30 dissimilar buoyage systems in use throughout the world. To avoid confusion and help create safe navigation to mariners of different regions IALA have created a worldwide buoyage system.

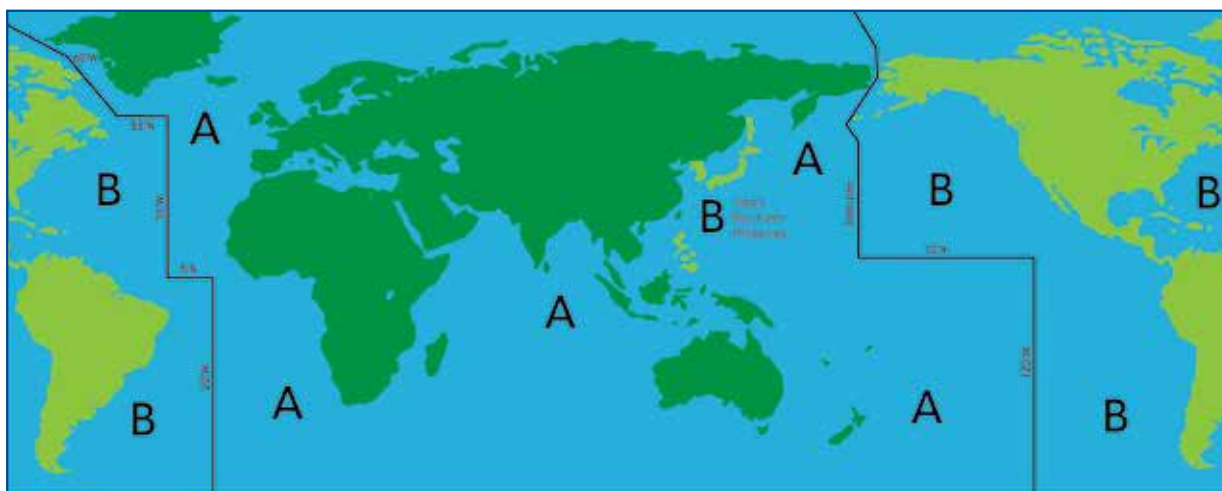
Region A & Region B

To minimise the number of changes to existing systems and to meet conflicting requirements IALA decided to create a system divided into two regions. The region followed is dependent on geographical location:

Region A: Europe, Australia, New Zealand, Africa, the Gulf and some Asian countries

Region B: North, Central & South America, Japan, North & South Korea and the Philippines

What Region am I in?



Types of Navigation Marks

The different types of marks used in the pilotage of vessels at sea are easily distinguished by their shape, colour, topmark by day and the colour and rhythm of the light by night. The five types of marks are:

Lateral Marks: indicate the edge of a channel

Cardinal Marks: indicate the position of a hazard and the direction of safe water

Isolated Danger Marks: indicate a hazard to shipping

Safe Water Marks: indicate the end of a channel and deep, safe water is ahead

Special Marks: indicate an area or feature such as speed restrictions or mooring area

Lateral Marks are the only marks that differ by region, the other four marks are common to both Region A and Region B.



IALA Maritime Buoyage System

Lateral Marks

Lateral marks define a channel and indicate the port and starboard sides of the navigation route to be followed into a waterway such as a harbour, river or estuary from seaward. The vessel should keep port marks to its left and keep starboard marks to its right.

If lateral marks are unable to be represented by a can or cone shaped buoy they should carry the appropriate topmark.

At the point where a channel divides, a modified lateral mark is used to indicate a 'preferred' channel (often a deep channel suitable for heavy commercial vessels) on one side and a secondary channel on the other. A preferred channel is indicated by red and green horizontal bands on the lateral marker. If a vessel wants to use the 'preferred' channel they observe the top colour of the mark while a vessel wishing to use the secondary channel observes the bottom colour. See 'Preferred Channel to Starboard/Port' in Table 1.1 and Table 1.2.

Table 1.1 LATERAL MARKS: REGION A

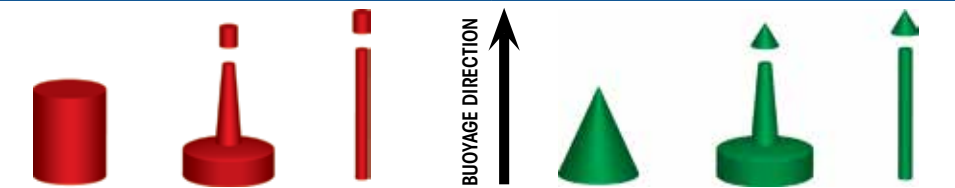
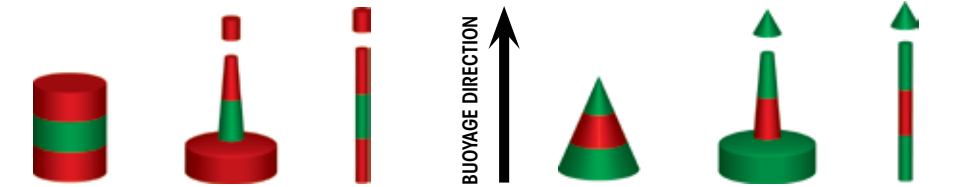
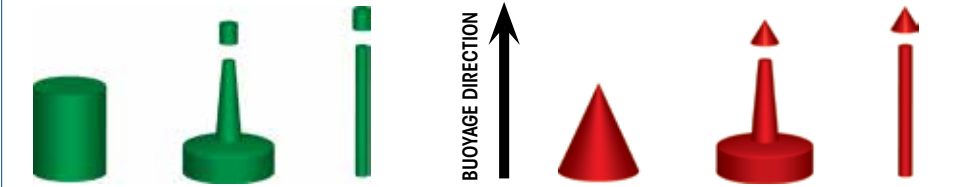
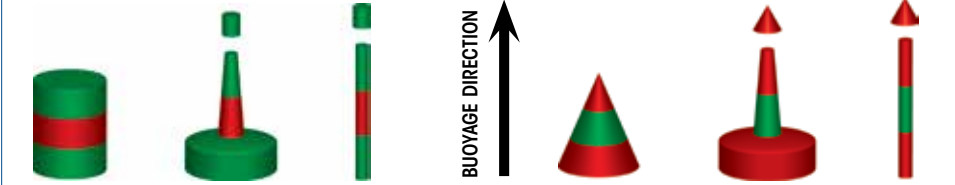
	Port Hand Marks	Starboard Hand Marks
Colour	Red	Green
Buoy Shape	Cylindrical (can), pillar or spar	Conical, pillar or spar
Topmark (if any)	Single red cylinder (can)	Single green cone, point upwards
Light Colour (when fitted)	Red	Green
Light Rhythm (when fitted)	Any apart from composite group flashing (2 + 1)	Any apart from composite group flashing (2 + 1)
		
	Preferred Channel to Starboard	Preferred Channel to Port
Colour	Red with one broad green horizontal band	Green with one broad red horizontal band
Buoy Shape	Cylindrical (can), pillar or spar	Conical, pillar or spar
Topmark (if any)	Single red cylinder (can)	Single green cone, point upward
Light Colour (when fitted)	Red	Green
Light Rhythm (when fitted)	Composite group flashing (2 + 1)	Composite group flashing (2 + 1)
		

Table 1.2 LATERAL MARKS: REGION B

	Port Hand Marks	Starboard Hand Marks
Colour	Green	Red
Buoy Shape	Cylindrical (can), pillar or spar	Conical, pillar or spar
Topmark (if any)	Single green cylinder (can)	Single red cone, point upwards
Light Colour (when fitted)	Green	Red
Light Rhythm (when fitted)	Any apart from composite group flashing (2 + 1)	Any apart from composite group flashing (2 + 1)
		
	Preferred Channel to Starboard	Preferred Channel to Port
Colour	Green with one broad red horizontal band	Red with one broad green horizontal band
Buoy Shape	Cylindrical (can), pillar or spar	Conical, pillar or spar
Topmark (if any)	Single green cylinder (can)	Single red cone, point upward
Light Colour (when fitted)	Green	Red
Light Rhythm (when fitted)	Composite group flashing (2 + 1)	Composite group flashing (2 + 1)
		

IALA Maritime Buoyage System

Cardinal Marks

A cardinal mark is used to signify a danger and show where the safest water can be found. Cardinal marks indicate the direction of safety as a compass direction relative to the mark. A cardinal mark is named after the quadrant in which it is placed. Due to the unique way cardinal marks use the points of a compass to signal safety it makes them meaningful regardless of the direction of the approaching vessel.

Cardinal marks have distinctive black and yellow markings and topmarks.

Cardinal marks can be used to show the following:

- The deepest water on an area on the named side of the mark
- The safe side on which to pass a danger
- Draw attention to a feature in a channel such as a bend, junction or end of a shoal

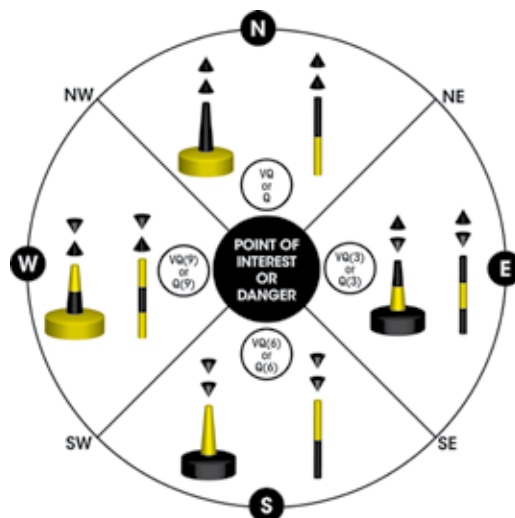
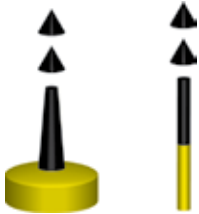
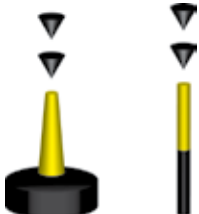
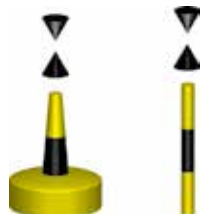


Table 2.1 CARDINAL MARKS: REGION A & REGION B

	North Cardinal Mark	East Cardinal Mark
Colour	Black above yellow	Black with a single broad horizontal yellow band
Buoy Shape	Pillar or spar	Pillar or spar
Topmark	2 black cones, one above the other, pointing upward	2 black cones, one above the other, base to base
Light Colour (when fitted)	White	White
Light Rhythm (when fitted)	VQ or Q	VQ(3) every 5 seconds or Q(3) every 10 seconds
		
	South Cardinal Mark	West Cardinal Mark
Colour	Yellow above black	Yellow with a single broad horizontal black band
Buoy Shape	Pillar or spar	Pillar or spar
Topmark	2 black cones, one above the other, points downward	2 black cones, one above the other, point to point
Light Colour (when fitted)	White	White
Light Rhythm (when fitted)	VQ(6) + Long flash every 10 seconds or Q(6) + Long flash every 15 seconds	VQ(9) every 10 seconds or Q(9) every 15 seconds
		

Q & VQ Light Rhythms

Q and VQ refer to the rhythm of a flashing light. Q is a quick flashing light and VQ is the symbol for a very quick flashing light.

Q = Flash frequency is at least 50 or 60 flashes per minute (1.2 or 1 flashes per second)

VQ = Flash frequency is at least 100 or 120 flashes per minute (0.6 or 0.5 flashes per second)

IALA Maritime Buoyage System

Isolated Danger Marks

An isolated danger mark is used to indicate a hazard to shipping such as a submerged rock or wreck which has navigable water all around it. It is erected or moored above the hazard.

The double sphere topmark is an important feature and needs to be visible by day. The topmarks should be as large as possible with the spheres clearly separated.

Table 3.1 ISOLATED DANGER MARKS: REGION A & REGION B

	Isolated Danger Mark
Colour	Black with one or more broad horizontal red bands
Buoy Shape	Optional, but not conflicting with lateral marks; pillar or spar preferred
Topmark	2 black spheres, one above the other
Light Colour (when fitted)	White
Light Rhythm (when fitted)	Group flashing (2)

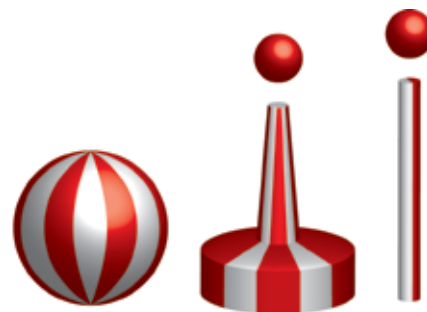


Safe Water Marks

Safe water marks indicate there is navigable water all around the mark including the end of a channel or mid channel, however, this mark does not mark a danger. They are the only mark to have vertical stripes.

Table 4.1 SAFE WATER MARKS: REGION A & REGION B

	Safe Water Mark
Colour	Red and white vertical stripes
Buoy Shape	Spherical; pillar or spar with spherical topmark
Topmark (if any)	Single red sphere
Light Colour (when fitted)	White
Light Rhythm (when fitted)	Isophase, occulting, one long flash every 10 seconds or Morse "A"

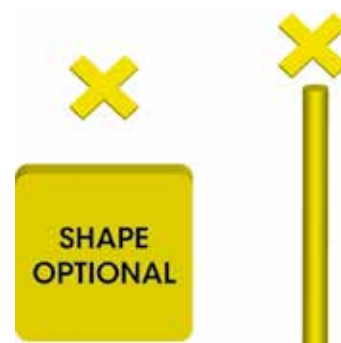


Special Marks

Special marks do not usually assist navigation but are used to indicate a feature such as recreation zones, speed limits, mooring areas or cable and pipe lines including outfall sewerage pipes.

Table 5.1 SPECIAL MARKS: REGION A & REGION B

	Special Mark
Colour	Yellow
Buoy Shape	Optional but not conflicting with navigational marks
Topmark (if any)	Single yellow 'X' shape (St Andrew's Cross)
Light Colour (when fitted)	Yellow
Light Rhythm (when fitted)	Any other than those described in cardinal, isolated danger and safe water marks



IALA Maritime Buoyage System

IALA Buoyage System Example, Region A



IALA Buoyage System Example, Region B



The information contained in this publication is advisory only. Please contact your local authority for rules and regulations particular to your region.

For further information about IALA and the IALA Maritime Buoyage System please visit www.iala-aism.org

References:

IALA Maritime Buoyage System, IALA Publications, viewed 3 May 2010, <http://www.iala-aism.org>

Buoy Configurations

IALA Regions A & B

REGION A



Port Hand Mark



Starboard Hand Mark



Preferred Channel to Starboard



Preferred Channel to Port

REGION B



Port Hand Mark



Starboard Hand Mark



Preferred Channel to Starboard



Preferred Channel to Port

REGION A & B



North Cardinal Mark



South Cardinal Mark



West Cardinal Mark



East Cardinal Mark

REGION A & B



Isolated Danger Mark



Safe Water Mark



Special Mark

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Sealite is a member in good standing of the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA), and endeavours to conform to all of the Recommendations, Guidelines and other documentation offered by IALA.

IALA is an international technical association established in 1957, and gathers together marines aids to navigation authorities, manufacturers and consultants from all parts of the world for the opportunity to compare experiences and achievements.

IALA contributes to the reduction of marine accidents through the design and implementation of buoyage systems, radio navigational services and traffic management services.



Sealite is a member of AIMEX (Australian International Marine Export Group). The main activity of the group is marine export development through a number of primary functions including acting as a national, state and regional forum where issues can be raised and input given to various government bodies.



Sealite takes pride in manufacturing and supplying products that are of the very highest quality, each of which is the most advanced in its class.



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All Sealite products are intended as premium quality aids to navigation, and as such no responsibility will be accepted as to the suitability, reliability or other factors associated with their use other than for this purpose. The responsibility for the use of Sealite products rests entirely with the end-user, and Sealite is not committed by any undertakings or representations made by its distributors or dealers. All product specifications are accurate at the time of print, but may be subject to change or variation without notice. SEALITE® is a registered trademark of Sealite Pty Ltd.









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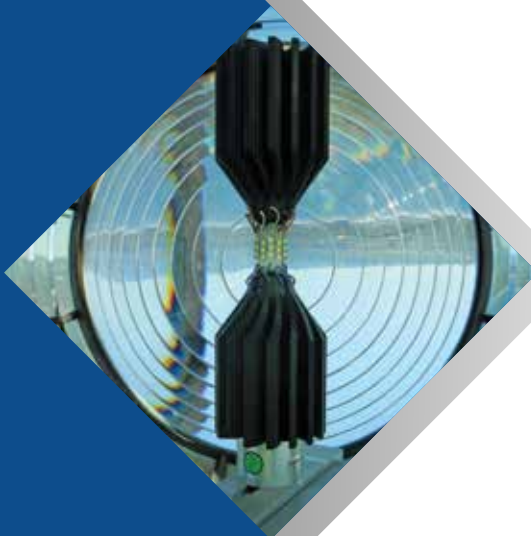
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