



## **TRIDENT-3000-HEX-FS**

**Free Standing 3000mm dia. Ocean Buoy  
with hexagonal aluminium tower  
Installation & Service Manual**



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1.0	Manual Launch	October 2015	G. Percy
1.1	Technical Specification Update	October 2020	M.Nicholson

## Introduction

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

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

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

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

## Sealite Buoy Division

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

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

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

## Why Choose Polyethylene Buoys?

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

## Mooring Requirements & Regulations

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

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

Local conditions that need to be considered include:-

- Water depth
- Maximum currents
- Maximum wind speeds
- Sinker size and weight

# TRIDENT-3000-HEX-FS Ocean Buoy

*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 6 meters.*

*The float section of the Trident-3000 is built from four (4) roto-moulded quadrants, which fasten together to form an incredibly robust 3 meter wide float section standing 1.8m tall. Each quadrant is moulded from UV-stabilised virgin polyethylene, and has an 16mm wall thickness.*

*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.*

Number of Lifting Points = 4

Visual area = 9.75m<sup>2</sup> (with daymark)

Estimated roll period (bare) = 2.1sec

SWL for 2 or more lifting points = 8630kg (mooring point)

SWL for 1 point lifting = 6000kg (deck and primary structure)

Estimated roll period (moored) = 1.5sec

## SPECIFICATIONS\* \*

## TRIDENT-3000-HEX-FS

### Hexagonal Aluminium Tower

#### General Characteristics

Available Colours  
Focal Plane Height (mm/inches)  
Total Float Volume (ltrs/US gallon)  
Nominal Freeboard (mm/inches)  
Nominal Draft (mm/inches)  
Reserve Buoyancy (kgs/lbs)  
Maximum Mooring Load (kgs/lbs)  
Draft, Maximum (mm/inches)  
Freeboard, Minimum (mm/inches)  
Safe Working Load, 1pt (kgs/lbs)  
Safe Working Load, 2pt (kgs/lbs)  
Submergence (kg/cm, lb/inches)  
Visual Area (m<sup>2</sup>/ft<sup>2</sup>)  
Water Area (m<sup>2</sup>/ft<sup>2</sup>)

Red, Green, White, Yellow as per IALA Recommendations  
6150 / 242  
11000 / 2906  
1110 / 43¾  
1696 / 66¾  
3024 / 6667  
2750 / 6063  
2116 / 83¼  
690 / 27½  
6000 / 13228 (one lifting point)  
8630 / 19025 (two lifting points)  
72 / 403  
9.75 / 104.9  
2.5 / 26.9

#### Physical Characteristics

Material

Rotationally-moulded UV-stabilised virgin polyethylene float section and top marks.  
7-stage powder-coated aluminium tower assembly with 316-grade stainless steel fixtures.

Wall Thickness (mm/inches)  
Ballast (kg/lbs)  
Filling  
Height (mm/inches)  
Width (mm/inches)  
Mass (kg/lbs)  
Radar Reflector  
Product Life Expectancy

16 / 5/8  
850 / 1874 external steel  
Closed-cell polyurethane foam (float section)  
8900 / 350½  
3000 / 118½  
3580 / 7893 (depending on payload)  
Internal 10m<sup>2</sup>  
>20 years

#### Certifications

IALA  
Quality Assurance

Surface colours compliant to IALA E-108  
ISO9001:2008

#### Intellectual Property

Trademarks

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

#### Warranty \*

#### Lantern Options

#### Options Available

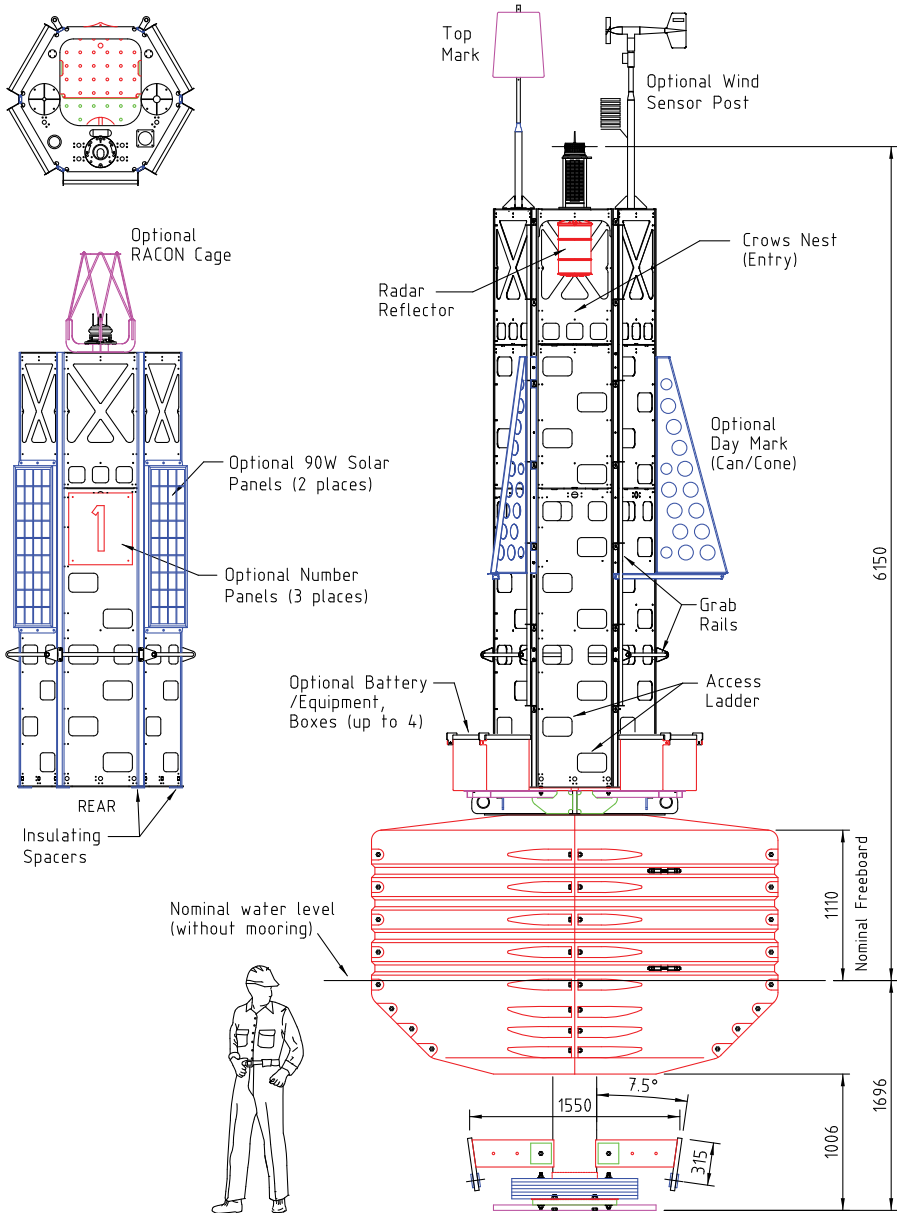
Sealite SL-C310, SL-C410, SL-C415, SL-C420 SL-125 Series or SL-155 Series

- Monitoring Systems (AIS, GSM)
- Unfilled Float Sections
- Increased focal plane heights
- Met Hydro Solutions

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



**Technical Specifications**



# ASSEMBLY INSTRUCTIONS



**Please read all steps before commencing. Exercise due care when handling buoy components, in particular, do not puncture, scrape or otherwise damage polyethylene parts.**

## Check Components

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

## Float Assembly

Parts required for float assembly:

Float Section and Mooring Post	
Description	Qty
Float Sections	4
Mooring Post	1
M16 x 80mm Long S/S Bolt	*32 (24)
Ø16 S/S Flat Washer	64
Ø16 S/S Spring Washer	40
M16 S/S Plain Nut	48
M16 x 250mm S/S Tie Rod	4
Float Strap	4
* Quantity reduced by 8 when Moon Pool is fitted	

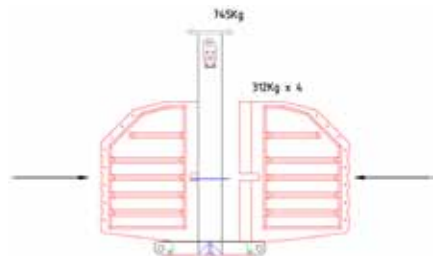
Moon Pool (Optional)	
Description	Qty
Moon Pool Mount	1
M16 x 90mm Long S/S Bolt	8
Ø16 S/S Flat Washer (3 stacks of 3)	9

### STEP 1

Position the Mooring Post upside down on flat level ground.

### STEP 2

Turn the 4 x Float Sections upside down, to match the mooring post. Position the 4 x Float Sections around the Mooring Post and start securing 2 x float sections together using M16 x 80 Bolts, washers and nuts.



*Coat each bolt in Anti-Seize or molybdenum disulphide Grease before fitting Nuts.*

**STEP 3**

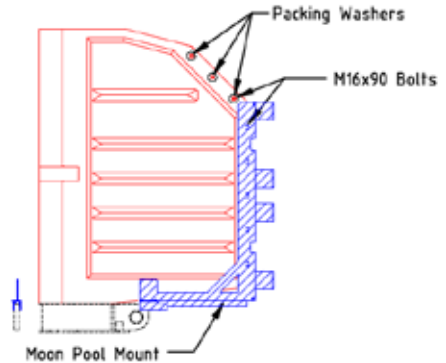
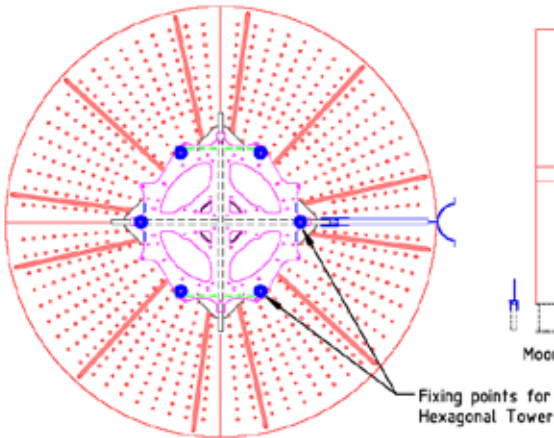
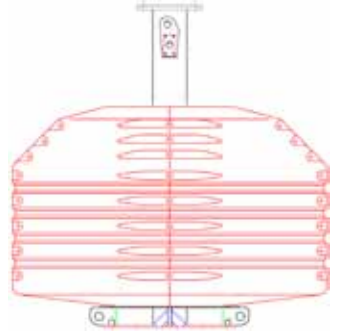
If an external moon pool, for water quality monitoring, is to be fitted then locate the moon pool mount between two of the float sections as shown. Align the moon pool mount and float section junction with any one of the mooring post lifting eyes. It is recommended for ease of wiring that the mount be aligned with one of the lifting eye beams which also carries one of the hex tower mounting points (see top view). The lifting eye should be trapped by the channel at the inner most end of the moon pool mount (this prevents the mooring post from spinning in the float during service).

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

Hand tighten 2 to 4 bolts (M16 x 80) per side until all four Float sections are secured around the mooring post. When a moon pool is to be fitted, 8 longer connecting bolts (M16 x 90) and 9 packing washers are supplied for incorporation with the float assembly as shown.

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

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



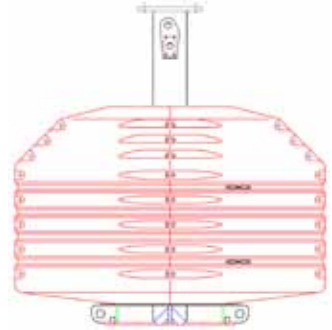
**STEP 4**

Position 2 x Float Straps on the ground and join the two Straps together by placing 1 x Tie Rod through the holes and 1 x M16 Nut on each side.

Repeat this for the second set of Straps.

Wrap the Float Straps around the Float Section and join the loose side using a Tie Rod and 2 x nuts. Repeat for the second Float Strap. Secure 2 of the 4 Float Straps around the top, and 2 of the 4 Float Straps around the bottom of the Float.

When the Float Straps are fitted in position tighten the nuts on the Tie Rods and add a Spring Washer and second nut to each side. Tighten all nuts securely.



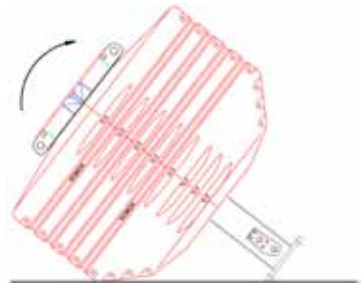
**STEP 5**



**Lift the Buoy, ONLY using the Lifting or Mooring Eyes or the Base Plate on the Mooring Post.**

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

**Please Note:** *The buoy weighs over 3 tonnes when fully assembled. Please be careful when rotating or otherwise lifting the Buoy.*



**The buoy will be unstable after turning upright. Secure with heavy chocks and tie in place where possible. Assembly staff must be careful when working in proximity to the buoy and particularly if standing on any part of the buoy.**

**STEP 6**

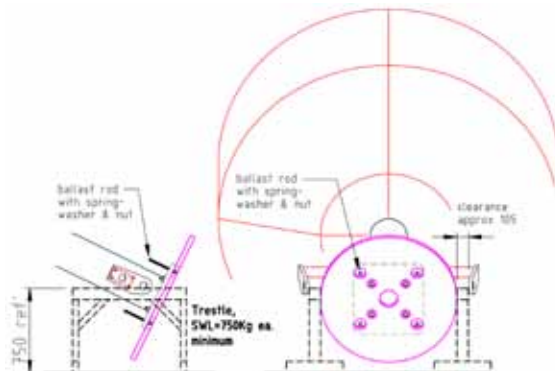
Lift the tail of the mooring post and support under the outer ends of the mooring cross-beam using trestles or other suitable means. Minimum SWL of supports = 750Kg each, height of supports = 750±50mm.

Lift the circular foot plate (weight≈350Kg) into position and secure with 4 bolts (M24x100) with spring washers and plain nuts, tighten to 500 Nm (368 ft.lb).

Coat each bolt in Anti-Seize or molybdenum disulphide Grease before fitting Nuts.

Parts Required:-

<b>Circular Foot Plate</b>	
Description	Qty
Foot Plate	1
M24 x 100mm Long S/S Bolt (Grade 70)	4
Ø24 S/S Spring Washer	4
M24 S/S Plain Nut	4

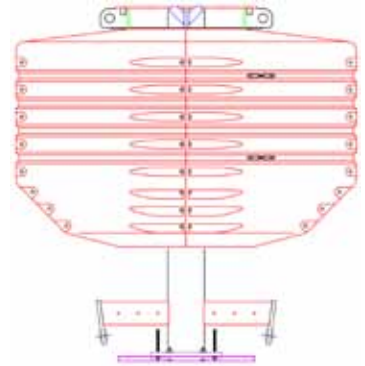


**STEP 7**

- Loosely fit a spring washer and plain nut to one end of each of the ballast rods (M20 all-thread), nut flush with rod-end
- Weld each nut to the rod end
- Insert ballast rods through the mooring post from the bottom
- Temporarily tape in place (to prevent them dropping out)
- Use a crane to lift the float assembly into a standing position.

Parts Required:-

<b>Ballast Plate Attachment Rods</b>	
<b>Description</b>	<b>Qty</b>
Ballast Rod, M20 x 270mm	4
Ø20 S/S Spring Washer	4
M20 S/S Plain Nut	4



## Hexagonal Tower Assembly

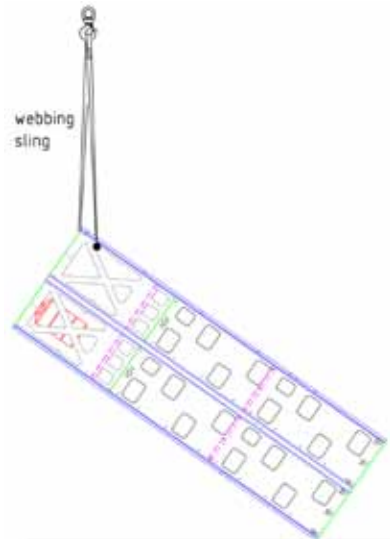
Parts required for tower assembly:

Hexagonal Tower	
Description	Qty
Hexagonal Tower with lantern spacer, insulating spacers (on base) & optional passive radar reflector	1
Vertical Grab Rail	
M8 x 40mm Long S/S Cap Screw	To suit rail
Ø8 S/S Flat Washer	2 per cap screw
Ø8 S/S Spring Washer	1 per cap screw
M8 S/S Plain Nut	1 per cap screw
Horizontal Grab Rail	5
M8 x 40mm Long S/S Cap Screw	12
Ø8 S/S Flat Washer	12
Ø8 S/S Spring Washer	12
M8 S/S Plain Nut	12

Hexagonal Tower Options	
Description	Qty
Top Mark	1
M8 x 40mm Long S/S Cap Screw	4
Ø8 S/S Flat Washer	8
Ø8 S/S Spring Washer	4
M8 S/S Plain Nut	4
Sensor Post	1
M8 x 40mm Long S/S Cap Screw	4
Ø8 S/S Flat Washer	8
Ø8 S/S Spring Washer	4
M8 S/S Plain Nut	4
Number Plate (Number or Letter per order)	3
Backing Plate	3
M6 x 25mm Long S/S Bolt	12
Ø6 S/S Flat Washer	24
M6 S/S Self-Locking Nut	12
RACON Cage	1
M8 x 30mm Long S/S Cap Screw	6
Ø8 S/S Flat Washer	12
Ø8 S/S Spring Washer	6
M8 S/S Plain Nut	6

### STEP 8

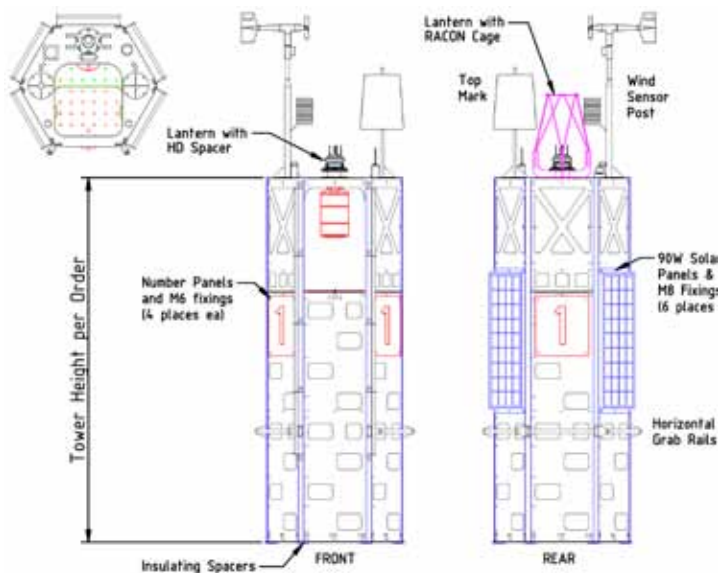
Stand the hexagonal tower upright on a level surface (take care not to damage insulating spacers fitted to base of tower).



**STEP 9**

Install standard and optional mechanical tower hardware:-

- 5 x Horizontal grab rails with M8 Socket Head Cap Screw, flat and spring washers and plain nut (12 places)
- 1 x Top Mark assembly with M8 Socket Head Cap Screw, 2 x flat washers, a spring washer and plain nut (4 places)
- 1 x Wind Sensor Post with M8 Socket Head Cap Screw, 2 x flat washers, a spring washer and plain nut (4 places)
- 3 x Number Plates and backing plates with M6 Socket Head Cap Screw, 2 x flat washers and self-locking nut (12 places)



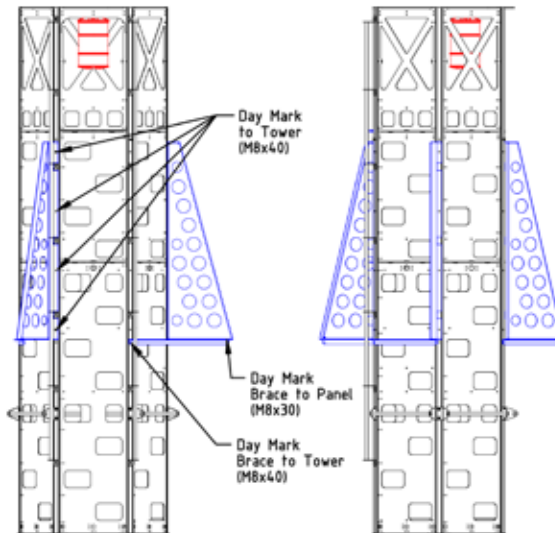
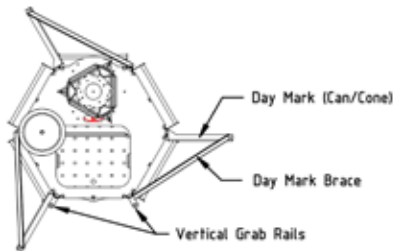
## Optional Day Mark Panels

Parts required:

Day Mark Panels	
Description	Qty
Day Mark Panel (can or cone)	3
M8 x 40mm Long S/S Cap Screw	15
M8 x 30mm Long S/S Cap Screw	3
Ø8 S/S Flat Washer	36
Ø8 S/S Spring Washer	18
M8 S/S Plain Nut	18

### STEP 10

Install optional day mark panels.



## Optional Solar Panel Assembly

Parts required for solar panel assembly:

<b>Solar Panels (2 x 90W)</b>	
<b>Description</b>	<b>Qty</b>
Solar Panel (90W) fitted with mounting plates.	2
M8 x 40mm Long S/S Cap Screw	12
Ø8 S/S Flat Washer	24
Ø8 S/S Spring Washer	12
M8 S/S Plain Nut	12

### **STEP 11**

Insert UV-stabilized cable ties in locations which are to be covered by a solar panel. Install solar panels using M10 Socket Head Cap Screw, 2 x flat washers, a spring washer and plain nut (6 places each panel). Route cables towards base of tower (or planned location of battery regulator) and tie in position using supplied cable ties. Loop surplus cable and secure somewhere inside tower and out of harm's way.

## Optional Tower Mounted Electronic Equipment Assembly

Parts required for assembly:

<b>Hexagonal Tower Lantern</b>	
<b>Description</b>	<b>Qty</b>
Navigation Lantern	1
M10 x 30mm Long S/S Cap Screw	4
Ø10 S/S Flat Washer	8
Ø10 S/S Spring Washer	4
M10 S/S Plain Nut	4
UV-Stabilized Cable Tie	90

<b>Hexagonal Tower Electronics (Optional)</b>	
<b>Description</b>	<b>Qty</b>
Antenna +	Per Order
Antenna Hardware Kit	
Sensor +	Per Order
Sensor Hardware Kit	

### **STEP 12**

Install all tower mounted electronic equipment as optioned.

- Navigation Lantern with M8 Socket Head Cap Screw, 2 x flat washers, a spring washer and plain nut (4 places)
- All antennae using individually kitted fasteners
- All sensors using individually kitted fasteners

Route all cables as required and secure using UV-stabilized cable ties. Loop surplus cable and secure somewhere inside tower and out of harm's way.

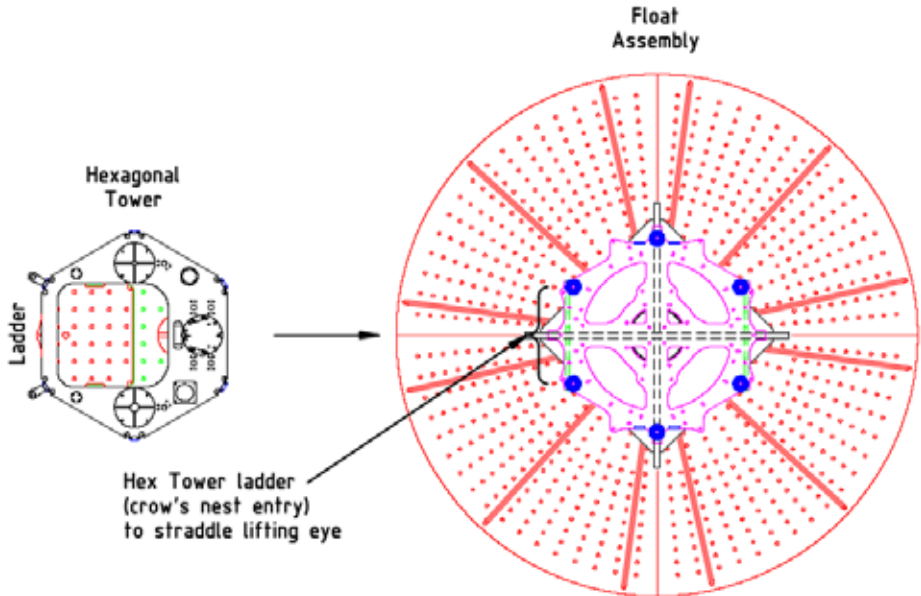
## Attaching Hexagonal Tower to Mooring Post

### **STEP 13**

The hexagonal tower is to be located on the mooring post deck with the ladder centred across one of the deck lifting eyes.



**Look for a pre-determined location for the tower ladder which is sometimes indicated on the mooring post**




**STEP 14**

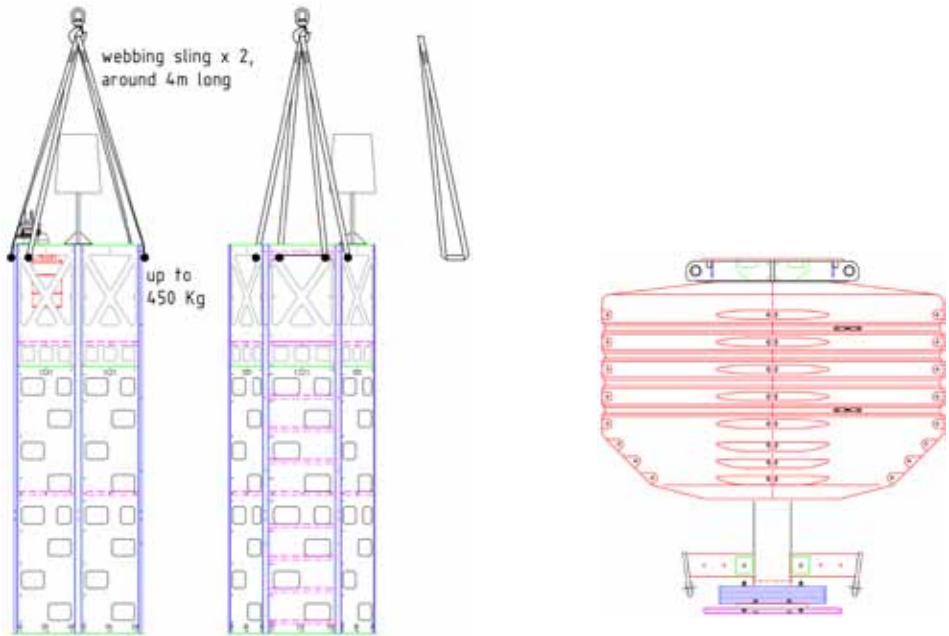
Parts required to attach tower to mooring post:

<b>Hexagonal Tower to Mooring Post</b>	
Description	Qty
* M16 x 120mm Long S/S Bolt, Shanked	6
Ø16 x 30mm OD S/S Flat Washer	6
Ø16 S/S Spring Washer	6
M16 S/S Plain Nut	6
* Length may vary depending on configuration	

<b>Pre-fitted to Hexagonal Tower Base</b>	
Description	Qty
Insulating Spacer	6
M5 x 25mm Long S/S Counter-Sunk Socket Head Screw	18
M5 S/S Self Locking Nut	18

Use a sling and crane to lift the tower as shown.

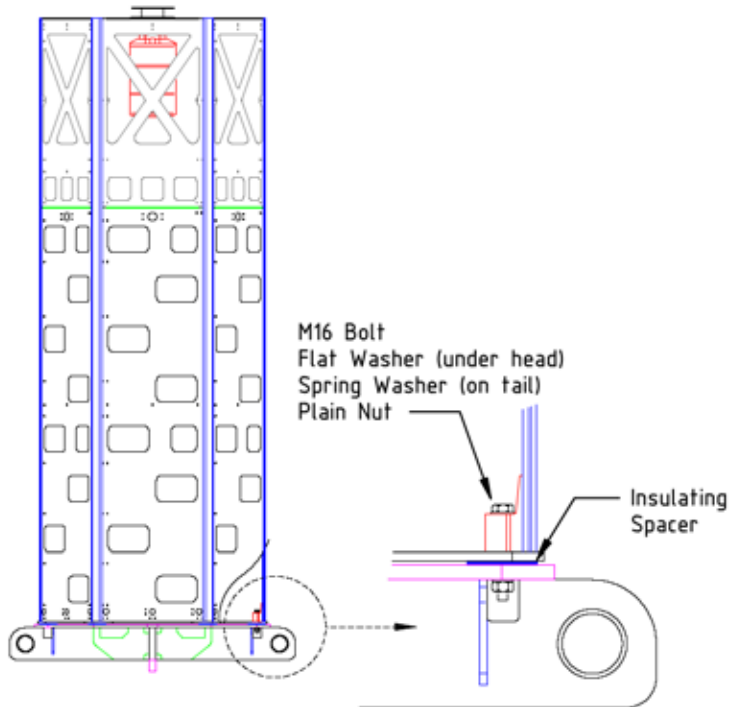
-  Do not use grab rails as lifting points.
- Do not use the top mark or equipment posts as lifting points.



Use a crane to raise the hexagonal tower into position and fix to the mooring post using M16 bolt, plain washer, spring washer and plain nut (6 places). Tighten to 152Nm (112 ft.lb).

*Coat each bolt and nut with an anti-seize compound before fitting.*

*Check that all M16 bolts, nuts and washers have been secured correctly.*



## Optionaal Battery/Equipment Box Assembly

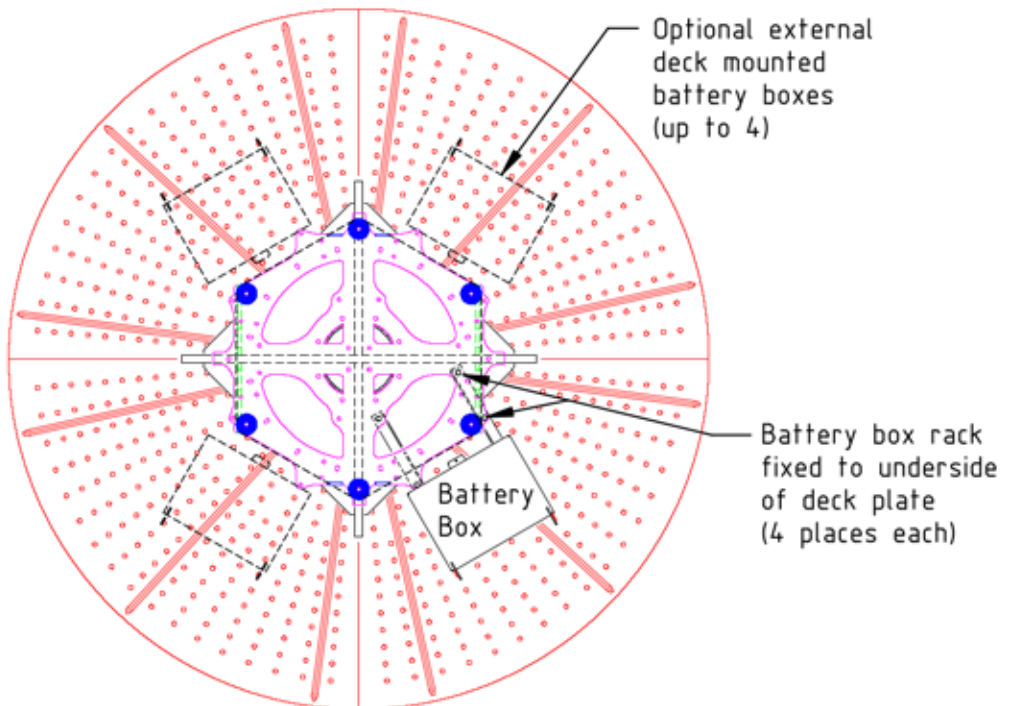
Parts required for battery/equipment box assembly:

Battery/Equipment Boxes	
Description	Qty
External Battery Box with Lid and Mounting Rack	Per Order
M12 x 50mm Long S/S Bolt	4 per Battery Box
Ø12 S/S Spring Washer	4 per Battery Box
M12 S/S Plain Nut	4 per Battery Box

### STEP 15

Fix battery boxes to the underside of the mooring post deck with M12 Bolt, spring washer and plain nut (4 places ea.), tighten to 61.2Nm (45 ft.lb).

*Coat each bolt and nut with an anti-seize compound before fitting.*



## Optional External Moon Pool Option

Parts required for optional moon pool assembly:

External Moon Pool (Option)	
Description	Qty
Saddle	4
M12 x 60mm Long S/S Bolt	8
Ø12 S/S Spring Washer	8
M12 S/S Plain Nut	8
Sensor Cage	1
Cage Link	1
Tube Cap	1
M10 x 45mm Long S/S Bolt	4
Ø10 S/S Spring Washer	4
M10 S/S Self Locking Nut	4
UV-Stabilized Cable Tie	10

Moon Pool Equipment	
Description	Qty
Sensor +	Per Order
Sensor Mounting Hardware	

### STEP 16

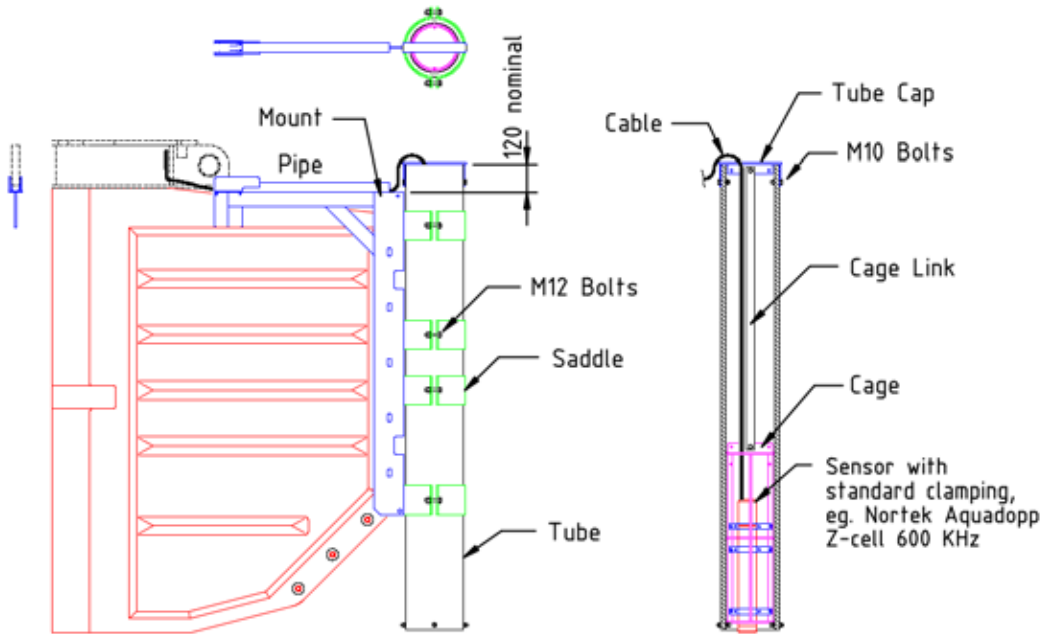
If an external moon pool is being fitted then clamp the moon pool tube against the moon pool mount using saddles as supplied. Fix using M12 bolt, spring washer and plain nut (8 places).

Install the sensor in the moon pool cage using standard sensor clamps.

Connect the cage link to the top end of the cage and to the middle mounting point on the pipe cap using M10 bolt, spring washer and self-locking nut (2 places). Run sensor cable through cage and along the cage link. Tie the cable in place using UV-stabilized cable ties.

Insert the cage and link into the top of the moon pool tube and secure the cap in place using M10 bolt, spring washer and self-locking nut (2 places). Run sensor cable through the mount pipe, under the deck beam and past the deck beam to the data logger. Tie in place as before.

*Coat each bolt and nut with an anti-seize compound before fitting.*



## **Installation of Outstanding Electronic Equipment**

### **STEP 17**

Install any outstanding electronic equipment (eg. solar regulator, data logger, terminal box) in the battery boxes and install associated wiring. Tie all cables in place using UV-stabilized cable ties.

### **STEP 18**

Install and secure batteries in place using supplied battery clamps.

### **STEP 19**

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

*Cover the terminals with a protective grease after connection and testing is finalised.*

### **STEP 20**

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

*Refer to the lantern manual for information on setting flashing codes, intensity or other variables and for troubleshooting.*

## Mooring Post Ballast Assembly

### STEP 21

Parts required:

Mooring Post Ballast Plates	
Description	Qty
Mooring Post Ballast Plate (Elbow)	*12
Rubber Insulator Mat, Large "U"	2
Rubber Insulator Mat, Wrap	1
Ballast Rod, M20 x 600mm Long (Standard)	4
Ø20 x 60mm OD S/S Flat Washer	4
Ø20 S/S Spring Washer	4
M20 S/S Plain Nut	4
* Quantity depends on thickness of collars and on buoy application. Nominal overall height of collar stack is 150mm (see diagram).	



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

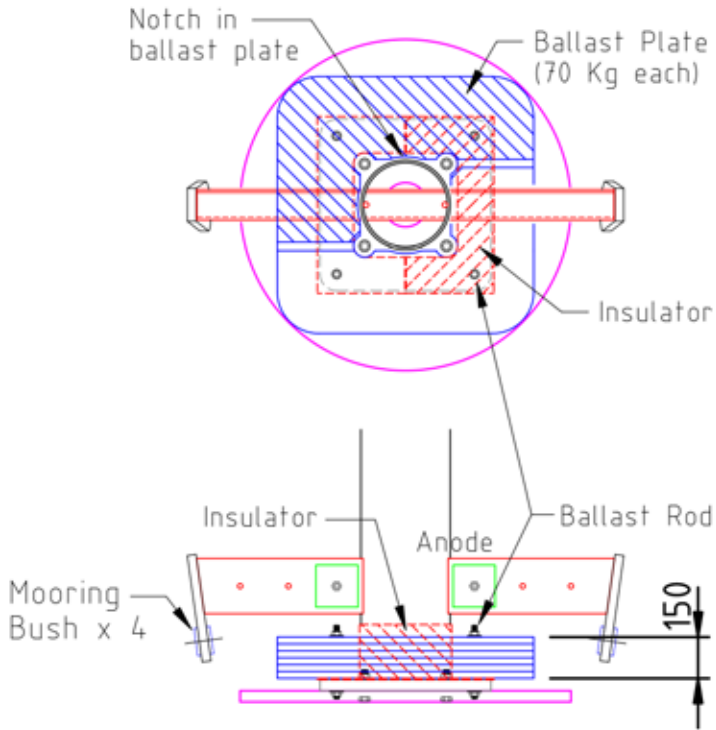
- Position the long Rubber Ballast Insulator around the base of the mooring post. Secure it in position using adhesive tape.
- Position 2 x U-shaped Rubber Ballast insulators on the base plate of the Mooring Post.
- Fit the first two Ballast Plates on to the base of the Mooring Post, (slide down over protruding Ballast Rods).



**The first pair of ballast plates which are fitted to the mooring post base plate require a notch to clear mooring post welds. If necessary, reserve notched ballast plates for this location on each of the builds.**

- Position a second set of 2 x Ballast plates on top of the first set with the joints perpendicular to the first pair, ie. criss-cross the joints.
- Secure the plates to the mooring post using 4 x 20mm Ballast Rods, Nuts, Flat and Spring Washers.
- Weld the nuts to the Ballast Rod when the assembly is complete.

*Coat each bolt and nut with an anti-seize compound before fitting.*



**STEP 22**

Parts required:

Anodes	
Description	Qty
Anode (150x150x25, NW11B1)	4
M16 x 200mm Long S/S Bolt	2
Ø16 S/S Flat Washer	4
Ø16 S/S Spring Washer	2
M16 S/S Plain Nut	2

Fit sacrificial anodes to the base of the mooring post using M16 bolt, penny washers, spring washer and plain nut (2 places).

*Coat each bolt and nut with an anti-seize compound before fitting*

**!** Please do not leave the Buoy lying on the Float Sections which may deform while in this position if left for more than 1 hour.

## TRIDENT-3000-HEX-FS Mooring Diagram

NOTE:- Mooring block and attachments omitted from parts list.

Item	Material Description	Qty	Wt(kg)
1	slb3000_final_assemblyXX_fs.dxf (typical)	1	3575
2	slb2600q_bush_mooring.dxf	4	3.4
3	D-Shackle Grade S, $\phi 38$ with $\phi 41$ pin (Sealite supplied)	2	14.6
4	D-Shackle Grade S, $\phi 38$ with $\phi 41$ pin (bolt type with nut and cotter pin recommended)	7	51
5	Bridle Eye (may be part of bridle assembly)	1	14
6	Swivel, Eye to Eye $\phi 38$ or larger	1	16

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Water Depth		Recommended Chain Size (mm) (from swivel to mooring block)
Metres	ft	
10 to 85	33 to 280	38
85 - 110	280 - 360	32
110 - 150	360 - 492	28

CHAIN SIZE

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

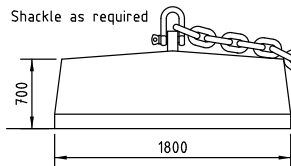
CHAIN LENGTH

NOTES:-

- 1/ Shackles, swivel and chain are load rated products. (Minimum recommended sizes are shown).
- 2/ All shackle pins are to be positively locked. eg using 3mm S.S. wire to lock pin eye, or use shackle pin with nut and split-pin.
- 3/ A manufactured bridle can be used with extended end links. (Shackle count reduced by 4).

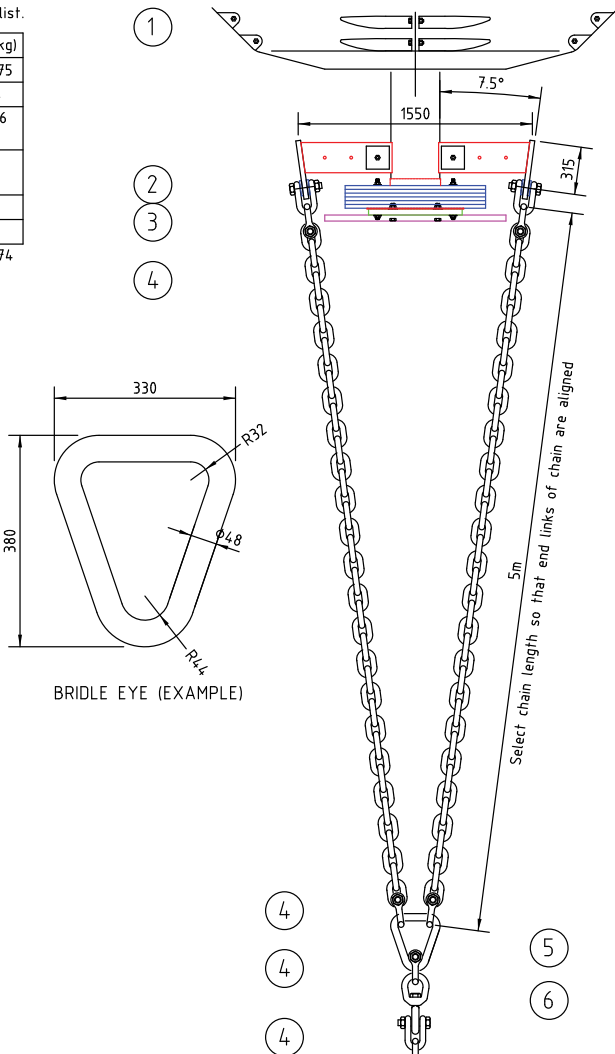
### General Note

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

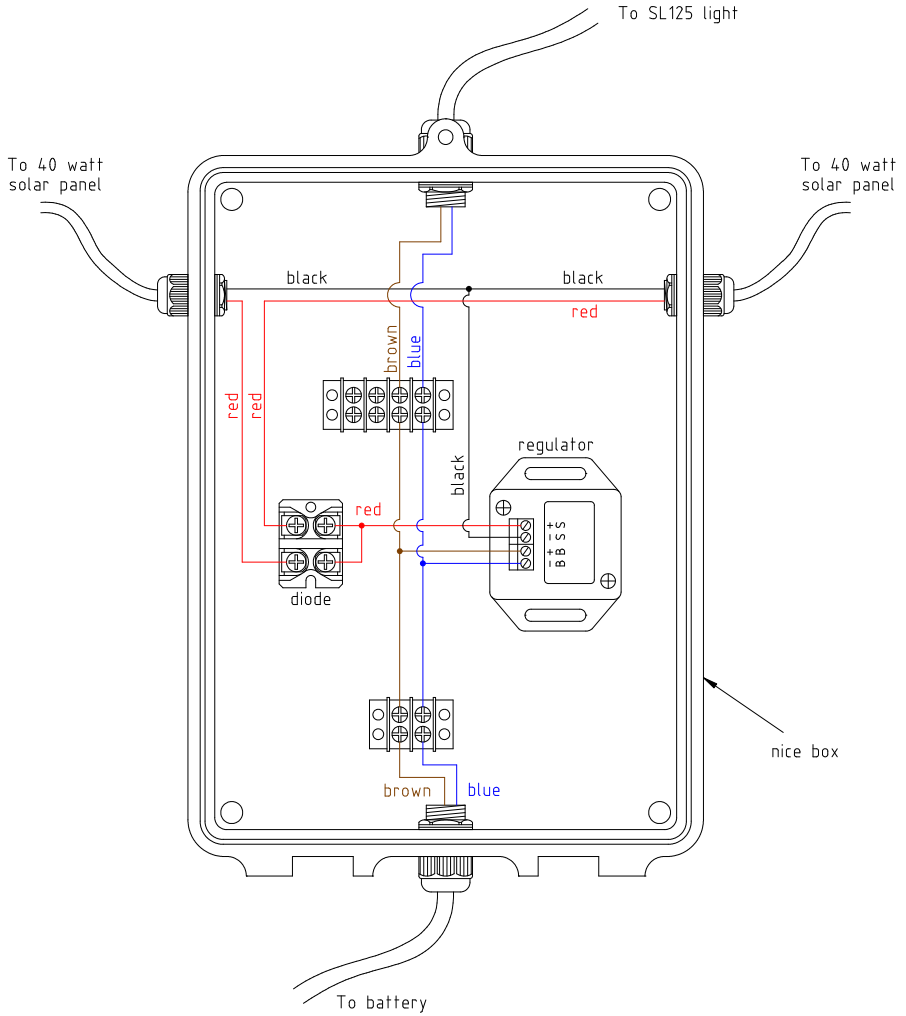


Mooring Block, 5000 kg  
Airweight. Approximate sizes shown are for a square concrete block.

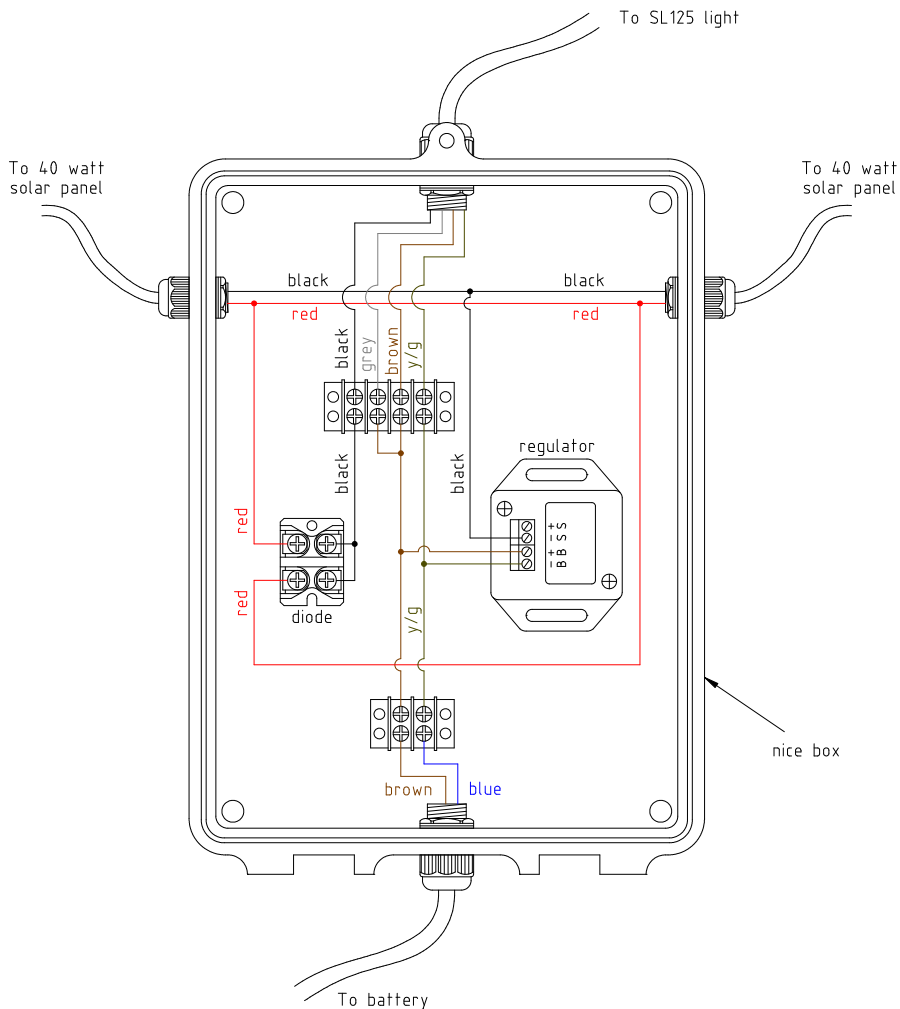
See tables for chain size and length



**Standard Wiring Diagram**



**GSM Wiring Diagram**





## **Marine Buoy Maintenance**

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

IALA Recommendation AISM E-107 suggests moorings are inspected annually.

### **Marine Buoy – Annual Maintenance**

- Visually inspect buoy for damage
- Inspect the top mark for any damage. Repair any broken or damaged section.
- Clean buoy of animal debris

### **Mooring – Annual Maintenance**

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

### **Mooring – Biannual Maintenance**

- Inspect the ground chain and sinker.

### **Lanterns – Maintenance**

- Please refer to the Installation Manual for the specific Marine Lantern fitted to the Buoy.

## Notes

## Notes

## Sealite Buoy Warranty V2.2

### Activating the Warranty

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

[www.sealite.com](http://www.sealite.com)

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

**The unit must be returned to Sealite freight prepaid.**

### Warranty Terms

1. Sealite Pty Ltd warrants that any rotationally-moulded buoy products ("Buoy Products") will be free from defective materials and workmanship under normal and intended use, subject to the conditions hereinafter set forth, for a period of twelve (12) months for small buoy products up to under 1500mm diameter, and for a period of five (5) years for large buoy products including and over 1500mm in diameter from the date of purchase by the original purchaser.
2. Sealite Pty Ltd will repair or replace, at Sealite's sole discretion, any Buoy Products found to be defective in material and workmanship in the relevant warranty period so long as the Warranty Conditions (set out below) are satisfied.

### Warranty Conditions

This Warranty is subject to the following conditions and limitations:

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

### Limitation of Liability

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

### Limited to Original Purchaser

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

### Miscellaneous

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

### Warrantor

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

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

**Other Sealite Products Available**



**Marine Lanterns  
(1-19NM)**



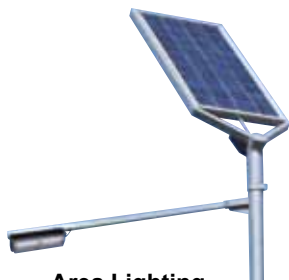
**Monitoring  
& Control Systems**



**Bridge & Barge Lights**



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



**Area Lighting**



**Mooring Systems  
& Accessories**



**Sealite**  
www.sealite.com

**Head Office**  
Sealite Pty Ltd  
11 Industrial Drive  
Somerville, Vic 3912  
Australia  
Tel: +61 3 5977 6128  
Fax: +61 3 5977 6124  
Email: info@sealite.com  
Internet: www.sealite.com

