

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



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.



TRIDENT-3000 Damman Port, Saudi Arabia

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



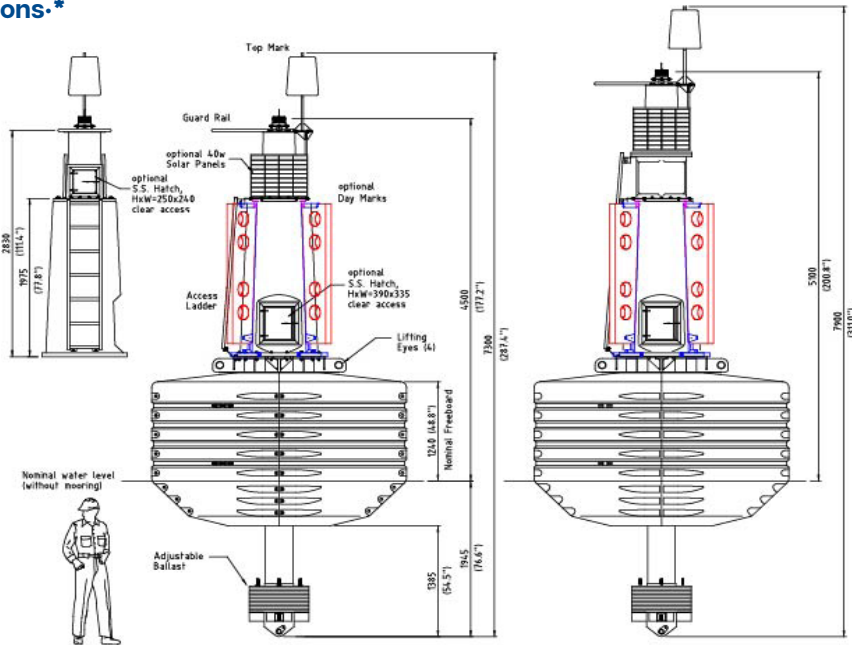
TRIDENT-3000 installation, Middle East



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
- Cost effective & environmentally friendly
- Convenient forklift access points to safely manoeuvre the buoy assembly
- No painting, ever

Technical Specifications.*



Technical Specifications.*

TRIDENT-3000	
Polyethylene Tower	
General Characteristics	
Available Colours	Red, Green, White, Yellow as per IALA Recommendations
Focal Plane Height (mm/inches)	4500 / 177.2
Total Float Volume (ltrs/US gallon)	11000 / 2906
Nominal Freeboard (mm/inches)	1240 / 48 ³ / ₄
Nominal Draft (mm/inches)	1945 / 76 ¹ / ₂
Total Reserve Buoyancy (kgs/lbs)	8750 / 19290
Operational Buoyancy (kgs/lbs)	3170 / 6990
Maximum Mooring Load (kgs/lbs)	2750 / 6063
Draft, Maximum (mm/inches)	2400 / 94 ¹ / ₂
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)	7.1 / 76.4 (with daymark) 6.4 / 68.9 (without daymark)
Water Area (m ² /ft ²)	2.1 / 22.6
Physical Characteristics	
Material	Rotationally-moulded UV-stabilised virgin polyethylene float section, tower assembly, top marks and panelling. 316-grade stainless steel fixtures.
Wall Thickness (mm/inches)	18 / ³ / ₄
Ballast (kg/lbs)	765 / 1687 external steel
Filling	Closed-cell polyurethane foam (float section)
Height (mm/inches)	7900 / 311
Width (mm/inches)	3000 / 118 ¹ / ₄
Mass (kg/lbs)	2580 / 5688 (depending on payload)
Radar Reflector	Echomax
Product Life Expectancy	>20 years ^
Certifications	
IALA	Surface colours compliant to IALA E-108
Quality Assurance	ISO9001:2015
Intellectual Property	
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty *	5 years
Lantern Options	Sealite SL-C310, SL-C410, SL-C415, SL-C420 SL-125 Series or SL-155 Series
Options Available	<ul style="list-style-type: none"> • Custom signage • Day marks • Monitoring Systems (AIS, GSM) • Unfilled Float Section • Tower Extension (Focal Plane height: 5100mm / 200³/₄ inches) • Galvanised or stainless steel mooring post • Flat bottom mooring post or dual mooring eyes

We believe technology improves navigation™



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* Subject to standard terms and conditions
^ Refer to the Sealite website under the warranty section
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