

Manufacturing Capabilities



Sealite is a global leader in the design and
manufacture of marine aids to navigation.

We believe technology improves navigation™



Sealite's injection moulding facility

Sealite is a global leader in the design and manufacture of marine aids to navigation.

The company has manufacturing and office locations in Australia, Singapore, the United States and the United Kingdom.

The Sealite team is dedicated to servicing the marine industry through the efficient design and production of leading-edge products, and offer the widest range of solar-powered LED lanterns in the marketplace.

Through close working relationships, marine authorities and private customers around the globe now trust Sealite to enhance the safety of their operations.

Design

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



Electronics

Once components are loaded on the circuit board in the SMT line they then move into the ESD protected electronics rooms where skilled technicians calibrate, test and program the lights to customer specifications.

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.

Surface Mount Technology (SMT)

Sealite's in-house 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. Using an automated system results in products with an increased level of reliability over traditional fixtures.



Photometric Testing

Of key importance in building navigational aids is the compliance to industry photometric requirements. Sealite's testing laboratory allows us to accurately validate the horizontal and vertical light distribution, and peak intensity of the products to ensure they consistently meet industry standards (IALA).



Inventory

To service the 'urgent need' requirements of our customers, Sealite maintains a working inventory of finished goods. Sealite also has key relations with Defence departments who have selected our systems as their trusted deployment standard. In emergency situations, options exist to draw on these resources for fast deployment around the world.

Rotational and Injection Moulding

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

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



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.



Quality Control

All Sealite's products are manufactured under a process that complies with ISO9001:2015 conditions for quality assurance. 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.

‘Keeping the manufacturing process in-house achieves better value for customers, superior quality standards and faster delivery than many of our competitors’

Chris Procter, CEO

Manufacturing Capabilities

- Purpose-built manufacturing plant
- World-leading research and development
- Manufactures in excess of 40,000 navigation aids per year
- In-house SMT electronics and robotic assembly lines
- In-house rotational moulding and injection moulding capabilities
- In-house high-precision injection mould toolmaking
- ISO9001:2015 registered



Worldwide Locations

- Australia
- Singapore
- USA
- United Kingdom

Sealite adheres to strict quality control procedures.



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



*Tooling design and
production facility*



*Sealite solar chassis
processed through CNC*



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