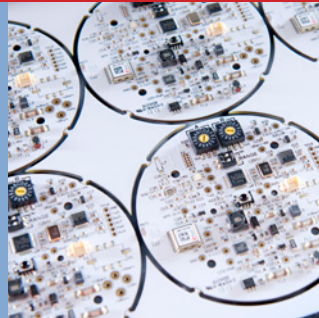




Sealite[®]
www.sealite.com



**Manufacturing
Capabilities**



Sealite is the world's fastest growing manufacturer of marine aids to navigation. We employ leading engineers to create innovative products to service the needs of our customers worldwide, and offer the widest range of solar-powered LED lanterns in the marketplace.

The Sealite team is dedicated to servicing the marine industry through the efficient design and production of leading-edge products.

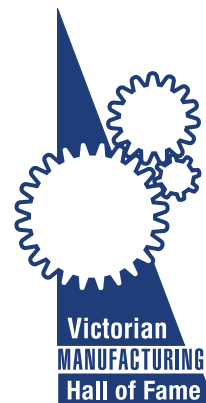
Through close working relationships, marine authorities and private customers around the globe now trust Sealite to enhance the safety of their operations.

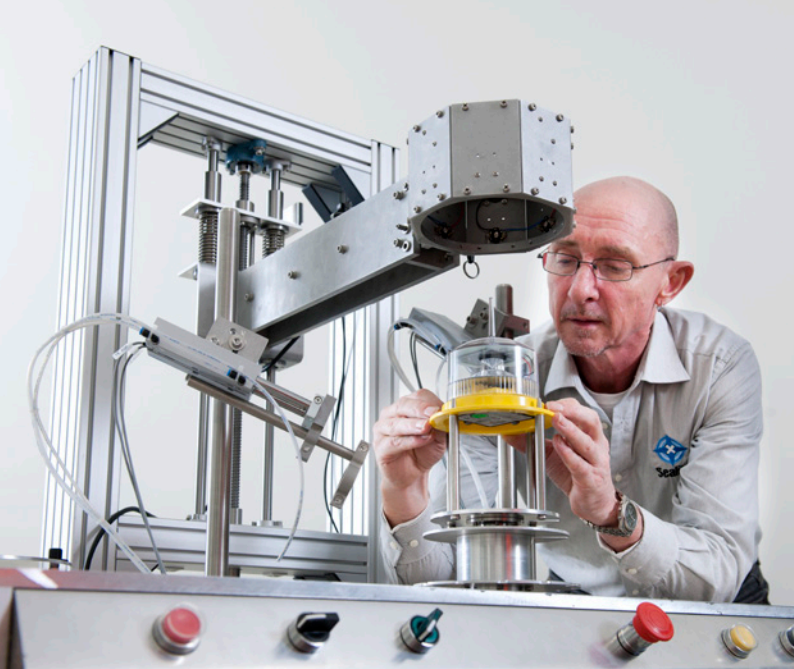
Part of Sealite's business philosophy is to invest in state-of-the-art equipment to achieve superior efficiencies and the highest levels of quality control.

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

Some of Sealite's key capabilities include:

- 50,000sq ft purpose-built manufacturing plant
- Manufactures in excess of 30,000 navigation aids per year
- In-house SMT Electronics assembly line
- In-house rotational-moulding capabilities
- In-house injection moulding capabilities
- ISO9001:2008 registered
- Victorian Manufacturer of the Year
- Victorian Manufacturing Hall of Fame inductee





Design

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



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.

As a result, our LED light drivers and microcontroller boards are built using an automated system which increases production rates, reduces labour costs and results in products with an increased level of reliability over traditional fixtures.



Electronics

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



Photometric Testing

Of key importance in building navigational aids is the compliance to industry photometric requirements.

Sealite's testing laboratory allows the design and evaluation of products to comply with local and international requirements such as IALA.

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

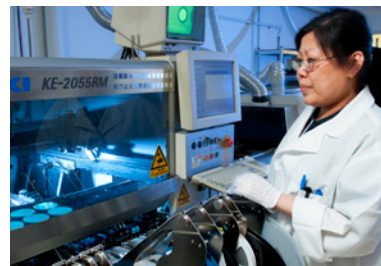


Environmental Testing

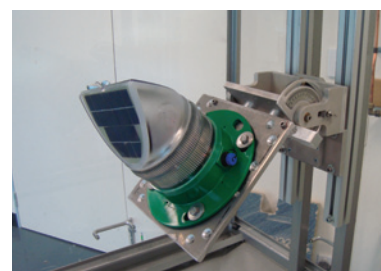
Sealite products are subjected to comprehensive environmental tests including icing, salt spray, shock and vibration, ESD and temperature to guarantee superior performance in the harshest environments.



Sealite adheres to strict quality control procedures



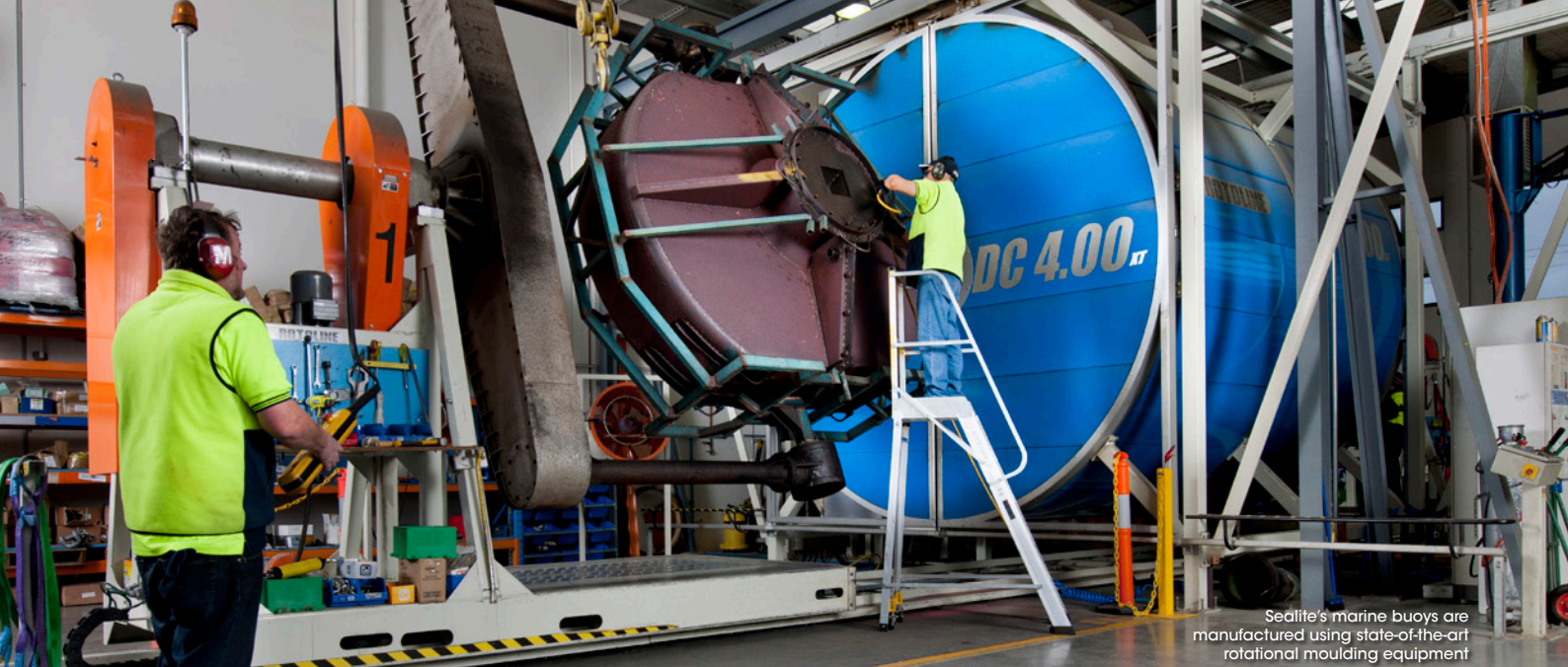
Technicians supervising Sealite's in-house surface mount assembly line



Sealite's SL-70 lantern undergoes comprehensive shock and vibration testing



Sealite solar chassis processed through CNC



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

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.



Extensive use of robotics throughout the manufacturing process

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.

Sealite also has key relations with Defence departments who have selected our systems as their expedient deployment standard. In emergency situations, options exist to draw on these resources for fast deployment around the country.



Sealite's injection moulding facility

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.



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

Quality Control

All Sealite's products are manufactured under a process that complies with ISO9001:2008 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.



Tooling design & production facility

All Sealite products are manufactured to exacting standards under strict quality control procedures.

Sealite's commitment to research and development, investing in modern equipment and advanced manufacturing procedures has made us an industry leader in solar marine lighting.

By choosing Sealite you can rest assured you have chosen the very best.



Sealite®
www.sealite.com



Sealite Pty Ltd

11 Industrial Drive,
Somerville Vic 3912
AUSTRALIA

t: +61(0)3 5977 6128

f: +61(0)3 5977 6124

Sealite USA, LLC

61 Business park Drive
Tilton New Hampshire 03276
USA

t: +1 (603) 737 1311

f: +1 (603) 737 1320

Sealite United Kingdom Ltd

15 Harvest Drive
South Lowestoft Industrial Estate
Lowestoft Suffolk NR33 7NJ
UNITED KINGDOM

t: +44 (0) 1502 588026

f: +44 (0) 1502 588047

w: www.sealite.com

e: info@sealite.com