Marine Doors, Windows & Hatches
Seaglaze specialises in the design and manufacture of all types of windows, doors and hatch sets to the boat building industry.

The company was founded in 1970 and we are proud of our ability to work with anyone ranging from a private customer needing a one-off window to a commercial boat manufacturer requiring a comprehensive window, door & hatch package.

Seaglaze has a 3000m² manufacturing facility, co-located with offices based in the east of England and is certified in accordance with ISO 9001:2008.

Seaglaze is also a long-standing member of the British Marine Federation.
Through-Fix Windows
(Series 1 to Series 5)

- A cost effective and well proven means of providing light and ventilation for a wide variety of boats
- Suited to various hull thicknesses; the superstructure or hull is drilled to allow fixing of a screw, bolt or rivet and will result in a very strong window.
- The head of the fastening will be visible or can be hidden behind a rubber/plastic strip.

Visible Fixing Frames

- Suitable for inland waterways etc
- Can be bent to a tight radius
- Will accept sliding units
- Will accept double glazing

Concealed Fixing Frames

- Suitable for inshore and coastal waters & offshore
- Suitable for half-drop and full drop units
- Sliding windows and double glazed windows available
Clamp-In Windows  
(Series 10 to Series 12)

• Fast and easy to fit because no drill holes in the hull superstructure are required (approx 50-60% time saving on fixed window fitting).

• Robust, durable and aesthetically pleasing.

• Various applications supporting light, medium and heavy weight sections.

Visible Fixing Frames

• Suitable for inland waterways etc

• Can be bent to a tight radius

• Will accept sliding units

• Will accept double glazing

Concealed Fixing Frames

• Suitable for inshore and coastal waters & offshore

• Suitable for half-drop and full drop units

• Sliding windows and double glazed windows available
Windows – Technical Details

<table>
<thead>
<tr>
<th></th>
<th>Glazing Thickness</th>
<th>Radii</th>
<th>Hull Thickness</th>
<th>Trim</th>
<th>Flange Widths</th>
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<tr>
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<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
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<td>Series 5</td>
<td>4</td>
<td>6</td>
<td>50</td>
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<td></td>
</tr>
</tbody>
</table>

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Glazing

**Glass Advantages.**
- Does not degrade – is resistant to surface abrasion - strong and generally cheap.

**Glass Disadvantages**
- Can be easy to fracture, is very difficult to bend and is heavy

**Plastics Advantages**
- Can withstand great pressures before breaking, easy to bend and weigh less than glass.

**Plastics Disadvantages**
- Degrade over time and prone to surface abrasion

Finish

To avoid corrosion, it is strongly recommended to anodise all aluminium parts.

In addition to the anodising process, Seaglaze normally finishes products with powder coating.

The combination of anodising and powder coating produces not only a pleasing finish, but protects against corrosion.

Fastenings

The options on window fastenings can be broken into 4 main groups:

- Screws
- Rivets
- Nuts and Bolts
- Machine Screws

To provide a neat interior finish, it is common to fit an internal trim ring. This will hide the aperture edges and any interior fabric linings used.

Additionally, an inner trim helps spread the fastenings load on the boat superstructure.
Lightweight Doors
(Internal)

The Series 29 door range is a versatile and lightweight ‘snap-in’ frame, offering simplicity yet with a broad style range.

Suitable or recommended for:

- **WCs**,  
- **Lockers**  
- **Shower rooms**

Can be supplied with a variety of frame widths and gaskets to suit bulkheads up to 40mm.

Lightweight
Stylish yet simple
Marine grade fittings

**Customised options:**

- **Shower door**: 8mm tinted acrylic
- **Inward opening option**
- **Toilet door**: Indicator bolt
Medium Weight Doors 
(External)

The medium weight, external doors range consists of the Series 21 and the Series 24 doors.

They are suitable for the following areas:

**Series 21**
- Galley
- Saloon
- Main Deck
- Storage

**Series 24**
- Above deck
- Below deck
- Access routes
- Engine Rooms

**Series 21**
- Bonded sandwich core
- Through fix or clamp in frame
- Options of a window / half glazed
- Powder coated or mill finish

**Series 24**
- Welded panel assembly
- Marine grade lock available
- Window or portlight (max 556mm x 456mm)
- Choice of door finishes and colours

Seaglaze has received accreditation from both RINA and DNV for a number of doors in the Series 24 (weathertight) range.
Heavyweight Doors (Watertight)

The Series 28 door is the most robust available and is suitable for all heavy duty applications.

The Series 28 door is suitable for:

- Engine Rooms
- Watertight Bulkheads
- Machinery Spaces

Details

- Solidly constructed from aluminium
- Welded panels
- Heavy duty cast handles and linked dogs
- Closes onto nylon wedges
- Can be fitted with a port light window
- Available in RAL colours

The Series 28 door can come with RINA Type Approval
Doors – Technical Details

<table>
<thead>
<tr>
<th>Class</th>
<th>Type</th>
<th>Uses</th>
<th>Type Approval</th>
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<td>External</td>
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<td>✔️</td>
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<tr>
<td>Series 25</td>
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</tr>
<tr>
<td>Series 29</td>
<td>Internal</td>
<td>✔️</td>
<td>❌</td>
</tr>
</tbody>
</table>

Windows

Windows can be as follows:

- Half glazed
- Portlights
- Shaped
- Double glazed
- Fixed or Half drop
- Tinted
- Frosted Glass

Finish

External doors will be both anodised and powder coated for a durable and attractive finish.

Internal doors however only require a powder coat finish.

Carbon Fibre doors can either be finished in powder coat or can be lacquered to allow the carbon fibre pattern to show through.

Carbon Fibre finish

Locks

Most doors can be fitted with locks. The type of locks can include:

- Shoot bolts
- Triovine
- Eurocyclinder
- Thumb turn
- Mortice & key

Watertight doors will not have locks fitted to ensure they remain fully watertight.
Hatches
Bespoke

Specifically designed for use on inland, coastal and offshore craft.

There are 3 standard sizes (below) but there are also bespoke options

<table>
<thead>
<tr>
<th>Part No</th>
<th>Aperture Size (mm)</th>
<th>Aperture Radius</th>
<th>Glazing</th>
<th>Stay</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR HTC 001</td>
<td>500 x 370</td>
<td>90mm</td>
<td>6mm clear</td>
<td>Peg</td>
<td>Powder Coat &amp;/or Anodised</td>
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<tr>
<td>PR HTC 002</td>
<td>500 x 500</td>
<td>90mm</td>
<td>6mm clear</td>
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<td>PR HTC 003</td>
<td>600 x 600</td>
<td>90mm</td>
<td>6mm clear</td>
<td>Peg</td>
<td>Powder Coat &amp;/or Anodised</td>
</tr>
</tbody>
</table>

Details

- Standard or custom sizes
- Additional bars available
- Adjustable stays can be added
- Choice of glazing and finish
- Marine grade fittings
- Silicon sealed, fish plated and screwed
- Lockable from inside
Hatches
Freeman Marine Hatches

Seaglaze is the appointed distributor for Freeman Hatches.

Used on a wide variety of commercial and leisure vessels.

- WATERTIGHT
- Can be Lloyds approved

Details:
- Fast-acting
- Easy to use
- Smooth, unencumbered locking mechanism
- Can generally be lifted out with one hand
- Can be hinged to open at 180 degrees
- Large range and bespoke available.

www.freemanmarine.com
Other Products
Non-marine projects

A Room With A View – London.
The brainchild of ‘Living Architecture’ where people can book a room for the night with a panoramic view over London.

Seaglaze manufactured a variety of bespoke windows and doors to help create this unique beached boat effect on the roof of the Queen Elizabeth Hall.

Why Use Seaglaze?

• Bespoke manufacturer
• Engineering expertise
• Quality product range
• Value for money

ROV Container
Seaglaze heavy duty hatches and doors have a multitude of non-marine uses.....
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