



GEBO MARINE GLAZING

WINDOWS

WINDSCREENS

DOORS

PORTLIGHTS

(SLIDING) HATCHES



YACHTING

WORKBOATS

AUTOMOTIVE

QUALITY WITHOUT COMPROMISE

Gebo. The one name that can meet all your marine glazing needs. Exactly.

INNOVATIVE AND UP-TO-DATE

Today the Gebo vision perfectly matches the needs of modern-day boat designers, naval architects and yacht- and shipbuilders - through both modular 'standard range' products, and versatile, economical custom built solutions.



In fact, no other marine glazing manufacturer can work as closely or as flexibly with your team to preserve the original

design concept with the fewest compromises. Proof of this is the sheer number of top boat-builders around the world who have taken on board the design, cost and marketing benefits of the Gebo integrated approach to glazing, all designed and manufactured in our own plant in Almere.

With Gebo you can develop your own look. Only Gebo can offer you an integrated "total concept" of high quality products with excellent conditions.

GEBU: 10 UNIQUE BENEFITS

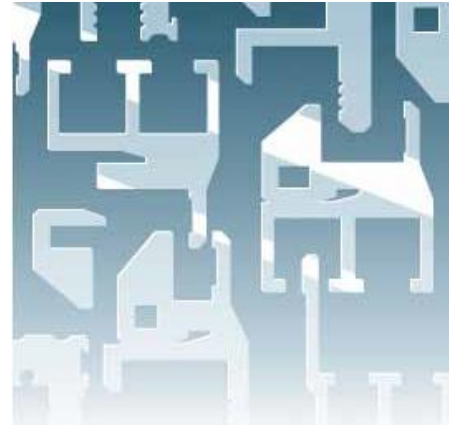
- ✓ 1. Complete delivery program;
- ✓ 2. Up-to-date and innovative;
- ✓ 3. Dutch quality product with own production facilities in Almere;
- ✓ 4. Consistency of style, color, finish and quality;
- ✓ 5. The unique Gebo hard soldering process guarantees a stronger waterproof installation.
- ✓ 6. The flexibility to use color, shape and finish
- ✓ 7. Short installation time;
- ✓ 8. Marketing benefits;
- ✓ 9. Long-term availability of spare parts;
- ✓ 10. The product quality and the pre- and aftersales technical support!



Why Aluminium?

More and more boat owners have to replace the glazing on their boats with aluminium windows. Aluminium has a number of advantages over more costly materials such as stainless steel or brass. Most importantly, it allows greater flexibility in design and requires less maintenance. For these reasons it is the most popular metal for manufacturing marine window frames.

Although bare untreated aluminium has a relatively good corrosion resistance, it is not recommended for a marine environment. To improve the corrosion resistance, aluminium windows are either anodised or powder-coated.



SURFACE TREATMENTS

A good aluminium ships' window should last as long as the craft in which it is installed. For protection and aesthetic finish of the aluminium the following surface treatments are applied.

ANODISING

Anodising is the most common way of improving the corrosion resistance of aluminium. During this process the natural layer of oxide is thickened and compressed to 15-20 micron by electrolytic action. This gives a very hard corrosion-resistant layer which is fully transparent and allows the natural aluminium color to show through.

COATING

For powder coating an electrostatic layer of 60-80 micron of polyurethane paint is applied to the aluminium. The necessity of cleaning is considerably less than for anodised aluminium. An extra advantage is that a repair to the powder coating can be carried out without removing the window.

Gebo ships' windows are anodised or powder-coated after all machining, thereby preventing corrosion to tapped holes or sawn surfaces.

The operational life of powder coated or anodised aluminium is increased by regular and correct cleaning.

RUBBERS

All Gebo Thermic Line, Light Line and Slim Line windows plus all deck hatches are provided with silicone rubbers.

MAINTENANCE OF ALUMINIUM

The durability of anodised or powder-coated aluminium has been proven over many years. Although aluminium is relatively maintenance free it is necessary to regularly clean the windows to preserve their good appearance. The cleaning frequency depends on the location of the ship. In much polluted areas (industrial estates, near airports, etc.) the necessity for cleaning can be as much as 12 times a year. In less polluted areas the normal cleaning frequency will be four times a year.

It is advisable to wash the glass and aluminium frame with lukewarm water. The addition of a little soap solution will assist the washing process. In the first stages of corrosion, aluminium looks dull and spotty, even after cleaning with water. A radical cleaning with special products can prevent further corrosion.

NEVER use:

- Alkaline products containing sodium solutions
- Acid products like muriatic or those containing phosphor
- Steel wool, abrasives or sandpaper
- Cleaning products for glass can also contain alkaline, which can corrode aluminium.

If in doubt, please contact us.



GEBO deckhatches are made from finest quality seawater resistant anodised aluminium and have a standard smoke grey acrylic panel of 10 or 15 mm thickness. All other parts, including hinges and handles, are also constructed from noncorrosive materials. The sealing is made of silicone rubber.

Powder-coating of the frame to any RAL color you specify is also available, as are clear, bronze and green acrylics.

GEBO DECKHATCHES

Gebo deckhatches are manufactured in our factory in Almere, the Netherlands, and are therefore a 100% Dutch product. The standard sizes that are listed in this brochure are in stock in our warehouse.

Before the deckhatches end up in the warehouse, they are carefully checked for quality and performance.

After checking, the hatches are packaged and sent directly to either the customer or the warehouse.



All Gebo products are CE certified. These certificates can be downloaded from the website www.gebo.com. All Gebo hatches are suitable for CE Class A Ocean.

SAFETY AND COMFORT

Gebo hatches do not have a single catch, lip or knob for lines or sails to get caught on. Smooth inside frame contours guarantee trouble free access for both crew members and sails.

Hatches should be fitted to a flat surface with a maximum tolerance of 1 mm.

Standard Portlights



The smooth angled outer frame prevents water from collecting on the frame and dripping into your cabin when the portlight is opened.



WATERTIGHT DESIGN

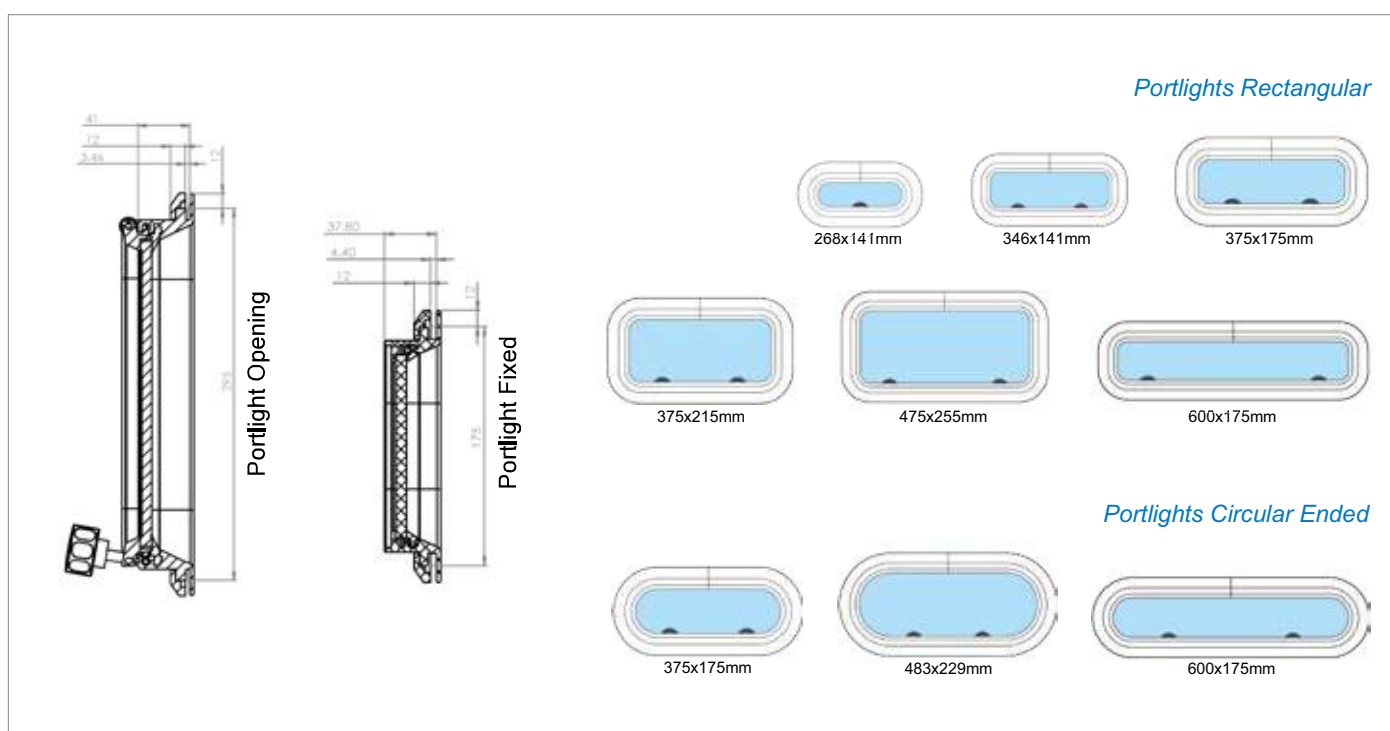
Unlike many designs, Gebo portlights are designed for watertight hull fitting, so there's no problem when a heeling yacht places the portlight against the pressure of fast-running water.

COLOR OF THE ACRYLIC

As standard the portlight is being manufactured with grey smoke acrylic. Clear, bronze and green acrylic is available to special order.



Gebo fixed and opening portlights are certified for watertight hull fitting



Simple
installation:
no hole
drilling

Portlights should be fitted to a flat surface with a maximum tolerance of 1 mm. On request the fixed type portlights can be bended.



Portlight rectangular with mosquito screen and rain shield

Portlights Rectangular Opening

Article no.	Cut-out size L x W mm	Radius mm	Overall size LxW mm	Radius mm	Acrylic mm	Mosquito screen	Rainshield
81.00.10.00	268x141	56	293x166	68	203x76	84.75.00.01	
81.00.55.00	346x141	56	371x166	68	281x76	84.75.00.02	
81.00.20.00	375x175	56	400x200	68	310x110	84.75.00.03	84.85.00.03
81.00.30.00	375x215	56	400x240	68	310x150	84.75.00.04	84.85.00.04
81.00.40.00	475x255	56	500x280	68	410x190	84.75.00.05	84.85.00.05
81.00.85.00	600x175	56	625x200	68	535x110	84.75.00.06	84.85.00.06

Portlights Rectangular Fixed

81.20.11.00	268x141	56	293x166	68	213x86		
81.20.21.00	375x175	56	400x200	68	320x120		
81.20.31.00	375x215	56	400x240	68	320x160		
81.20.41.00	475x255	56	500x280	68	420x200		
81.20.86.00	600x175	56	625x200	68	545x120		
81.20.55.00	346x141	56	371x166	68	291x86		

Portlights Circular Ended Opening

81.00.20.05	375x175	88	400x200	100	310x110	84.75.00.09	84.85.00.09
81.00.61.00	483x229	114	508x254	126	418x164	84.75.00.10	84.85.00.10
81.00.85.05	600x175	88	625x200	100	535x110	84.75.00.16	84.85.00.16

Portlights Circular Ended Fixed

81.20.21.05	375x175	88	400x200	100	320x120		
81.20.61.00	483x229	114	508x254	126	428x174		
81.20.85.05	600x175	88	625x200	100	545x120		