



## *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

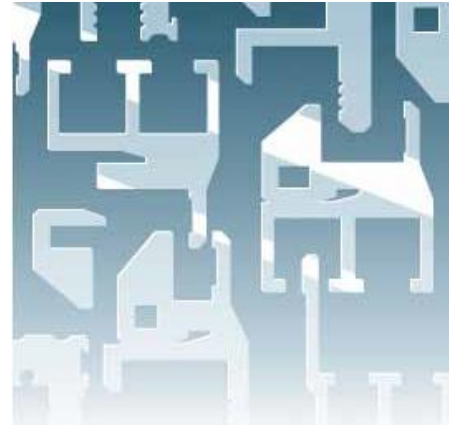
- ✓ 1. Complete delivery program;
- ✓ 2. Up-to-date and innovative;
- ✓ 3. Dutch quality product with own production facilities in Almere;
- ✓ 4. Consistency of style, color, finish and quality;
- ✓ 5. The unique Gebo hard soldering process guarantees a stronger waterproof installation.
- ✓ 6. The flexibility 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](http://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 Deckhatches with flange



## STANDAARD DESIGN

For a smoother profile, the frame on our standard hatches has been extended to fit flush against the base mounting. The base mounting screws are covered by the frame for a smoother appearance and extra safety.

Deep grooves in the lower frame provide a 100% water-tight assembly.



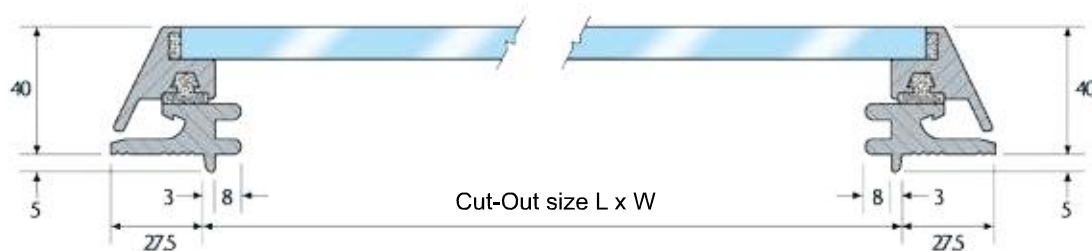
## STEPLESS OPENING, TO 180°, PLUS EASY HINGE ADJUSTMENT

Heavy duty friction hinges secure the hatch in any position from ventilation to full 180°. Hinges are also easily adjustable to suit the user.

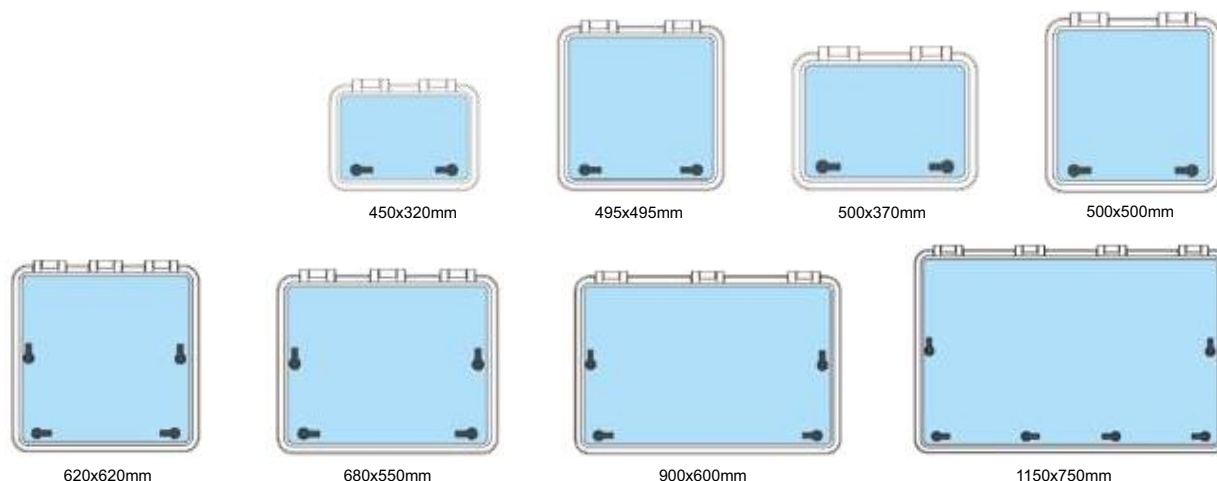
## UNIQUE DEEP-DECK WATER GROOVE

A deep groove in the lower frame keeps water from coming in when the hatch is open.

The Gebo's unique Airco-Lock theft-proof ventilation setting lets fresh air in while the crew rest or when the boat is unattended. The hatch is locked from the inside, either in the ventilation or the fully closed position.



Standard hatch with flange





Styling,  
Safety &  
Comfort

CE Class-A  
Ocean

MOSQUITO SCREEN



INNERRIM



FLY-BLIND



#### GEBO CUSTOM MADE

Gebo offers the possibility to manufacture custom made hatches.  
Please contact us for more information.

#### Standard Hatches with Flange

| Article no. | Cut-out size<br>L x W mm | Radius<br>mm | Overall size<br>LxW mm | Radius<br>mm | Acrylic<br>mm | Mosquito<br>screen | Mosquito<br>screen size | Innerrim<br>aluminium | Fly-blind   |
|-------------|--------------------------|--------------|------------------------|--------------|---------------|--------------------|-------------------------|-----------------------|-------------|
| 80.21.10.00 | 450 x 320                | 55           | 505 x 375              | 83           | 10            | 84.55.00.40        | 436,5 x 310             | 80.07.45.04           | 84.70.01.50 |
| 80.90.01.29 | 495 x 495                | 95           | 550 x 550              | 123          | 10            | 84.55.00.50        | 485 x 485               |                       |             |
| 80.21.20.00 | 500 x 370                | 55           | 555 x 425              | 83           | 10            | 84.55.00.41        | 486,5 x 360             | 80.07.45.00           | 84.70.01.51 |
| 80.21.30.00 | 500 x 500                | 55           | 555 x 555              | 83           | 10            | 84.55.00.42        | 490 x 490               | 80.07.51.00           | 84.70.01.52 |
| 80.21.40.00 | 620 x 620                | 55           | 675 x 675              | 83           | 15            | 84.55.00.43        | 610 x 610               | 80.07.39.00           | 84.70.01.53 |
| 80.21.45.00 | 680 x 550                | 55           | 735 x 615              | 83           | 15            | 84.55.00.45        | 666,5 x 540             | 80.07.68.05           |             |
| 80.30.10.00 | 900 x 600                | 55           | 955 x 655              | 83           | 15            |                    |                         |                       |             |
| 80.23.00.00 | 1150 x 750               | 55           | 1205 x 805             | 83           | 15            |                    |                         |                       |             |