

# CLEANING AND HANDLING GUIDELINES

## ARTGLASS GLAZING PRODUCTS

### HANDLING GUIDELINES

Working with glass requires extra caution and you must always ensure appropriate work conditions. Don't handle glass in crowded spaces or places where people walk. Only work with glass on clear worktables that are free of equipment and debris. Use gloves for safety purposes and so you don't leave fingerprints on the glass surface.

#### Personal Protective Equipment

- ! You should always wear gloves when working with glass products. The gloves must be clean, free of oils and non-slippery to ensure the best handling conditions.

The gloves should be certified according to **EN 420:2003+A1:2009** and **EN 388:2016+A1:2018**. The results for cut coupe test and TDM high cut test should correspond to the requirements outlined below:



#### EN 420:2003+A1:2009

General requirements for protective gloves



#### EN 388:2016+A1:2018

Protective gloves against mechanical risks



1 2 3 4 5

- 1 - Abrasion (0-4)
- 2 - Cut coupe (0-5), X = not tested
- 3 - Tear (0-4)
- 4 - Puncture (0-4)
- 5 - ISO13997 TDM HIGH CUT (A-F)

		RECOMMENDED				
EN 388:2016	A	B	C	D	E	F
LEVEL	LOW		MEDIUM		HIGH	
EN 388:2003	1	2	3	4	5	



**Protective glasses** should be worn for personal protection any time you work with any glass.



**Protective sleeves** ensure that glass shards don't reach parts of your hands that are not covered with gloves.



Closed-toe or **protective shoes** will prevent falling glass shards from injuring your feet.

### CUTTING ARTGLASS PRODUCTS

- ! Cutting large pieces of glass may require lifting the glass sheets into a vertical position or flipping them over. Always ask a coworker for assistance when manipulating large-size glass pieces.

## Cutting equipment

Artglass products can be cut just like regular glass. For best performance, we suggest using sharp cutting tools that are suited for the given glass thickness and substrate. We recommend using carbide blades instead of steel blades, as they stay sharper longer.

Artglass can be cut either by hand or by dedicated glass cutting equipment. Artglass products can be cut in any position that is convenient for the situation. Always make sure to have a sharp and suitable blade equipped in your glass cutter. We recommend using cutting wheels with at least a 135 degree angle.

## Use of cutting oils

Artglass anti-reflective glass can be cut either dry or evaporating cutting oil. We recommend that you use as little cutting oil as possible to avoid surface contamination. Don't use high lubrication cutting fluids to avoid leaving irremovable residue.

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## CUTTING ARTGLASS AR 70 AND ARTGLASS AR 92

Artglass AR 70 and Artglass AR 92 can be cut using the same tools used with regular glass. The products can be scored from either side. You can cut these anti-reflective products with your regular cutting methods.

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## CUTTING ARTGLASS AR 99 AND ARTGLASS UV 99

Artglass AR 99 has a special UV-protective coating that blocks 99% of the UV light. This coating is on only one side of the glass, and is indicated with a label close to the edge: *"This side faces artwork. Score opposite side"*. The label can be cleaned off using acetone or a little bit of nail polish remover on a cotton swab.

### Only cut Artglass AR 99 from the side

 that doesn't have the UV-coating.

The UV-coated glass side is indicated by a label close to the edge of the sheet. If the label has been cut or cleaned off, you can indicate the UV-coated side by performing the scratch test. Try scratching the glass surface with sharp pointy blade close to the edge so that the scratch will be covered with the frame's lip. The UV-coated side will scratch much easier than the other side. Always frame with the UV-coated side facing the artwork.

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## CUTTING ARTGLASS AR 99 WATER WHITE

Artglass AR 99 Water White has a special protective film applied on the UV-coated side to protect it from scratches. We recommend leaving the protective film on the glass surface for as long as possible. It can be easily removed right before finishing the frame. Leave the remaining off-cuts covered during storage and keep your UV-coated side identifiable at all times.

### To cut Artglass AR 99 Water White:

- Place the glass sheet in the glass cutter or on your worktable with the protective film facing upwards.
- Measure and cut through the protective film. We recommend using a multi-material carbide cutting tool or a blade suitable for cutting plastic.

- Carefully flip the glass to the other side.
- According to the same measurement, score the glass with your preferred cutting method and blade suitable for scoring glass. The scored line should match the cut line of the protective film on the other side.
- Snap the glass along the scored line. Remove the protective film in a smooth and even motion and install the glass in the frame with the UV-coated side facing the artwork.

### **Dissipating static**

The protective film is made from a plastic material, that can accumulate static charge. We recommend removing the static with an anti-static cloth, brush or an anti-static gun. This will remove any static charge and ensure that dust or other particles won't be attracted to the glass surface.

## **CUTTING ARTGLASS LIFETIME ACRYLIC**

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Artglass Lifetime Acrylic is covered with a protective film on both sides to protect the surfaces of the glazing. To assure easier handling, we recommend leaving the masking foil on the sheet for as long as possible.

Artglass Lifetime Acrylic can be cut from either side using multi-material cutters and power saw blades that are suitable for handling acrylic. The material is easy to work with and the protective film can be scored at the same time as the acrylic itself.

### **Manual cutting of Artglass Lifetime Acrylic:**

- Use a multi-material scoring knife and score several times to create a narrow, sharp gauge in the acrylic sheet.
- Place the sheet over the edge of the worktable with the gauge-side up and clamp the sheet if necessary.
- Bend the sheet downwards in a quick and even motion to achieve a smooth edge.
- Cut the protective film along the snapped line.

## **CUTTING ARTGLASS AR 99 PROTECT**

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Artglass AR 99 Protect is a laminated glass product, that comes in a range of sizes and thicknesses. This product consists of two glass sheets with lamination PVB film in the middle. Because of the laminated film, both sides of the glass need to be scored before the glass can be broken.

To score Artglass AR 99 Protect, measure and score one side of the glass. Carefully, flip the glass to the other side. Score the other side of the glass along the same measurement. If needed, clamp the glass to the table, and carefully break the glass at your scored line. After both glass sheets have been broken, carefully cut the lamination PVB foil with a sharp narrow blade.

## **CLEANING ARTGLASS ANTI-REFLECTIVE PRODUCTS**

Our products are cleaned before packaging and are ready to use. If cleaning is necessary, Artglass anti-reflective coatings can be cleaned with any ammonia-free glass cleaner and a soft microfiber cloth. Before cleaning, ensure that your cleaning cloth is free of dust and particles that could scratch the glass coating.

An ethanol / water mixture can also be used to clean Artglass products, it won't damage the anti-reflective coating. Optimal dilution is 50% mix of ethanol and water. We recommend that you use distilled or deionized water to avoid any sedimentation after drying.

 **Products**  
■ **NOT to use:**

- Strong alkalis, acids, detergents with fluoride, or solvents as they will destroy the coating.
- Detergents with particles that can scratch the glass surface (sand etc.)
- Scraping the surface with various blades can damage the surface and cause scratches.

**Cleaning instructions**

Spray a small amount of the glass cleaner directly onto the microfiber cloth and clean the glass in using a circular motion. Afterwards, polish the clean glass with a dry portion of the cloth. Avoid excessive rubbing of the glass surface, as unintentional hard particles in the cloth can damage the anti-reflective coating.

## GENERAL STORAGE GUIDELINES

Artglass glass products should be stored in a well-supported vertical position, away from places where people move frequently. If possible, keep the unused glass product in its original packaging to help identify the product. It is recommended to store Artglass products in a dry environment away from excessive dust and humidity. Avoid storing products in areas where there is a risk of condensation.

Artglass Lifetime Acrylic should be stored in a horizontal position, stacking the largest sheets at the bottom. If stored in a vertical position, the sheets should be stored at no more than a 10-degree angle to prevent potential bending or warping.

**For more information on Artglass products,  
visit [artglass.groglass.com](https://artglass.groglass.com)**