

GLAZING—MAINTENANCE

CLEANING & MAINTENANCE: PPF, PYRO, KFRF, KFRL, KFRU, CT45, CT60, CT90, TEMP, WS, LAMI, INSU

Note: Some Air Louvers Products such as WireShield and KeraShield Have a Surface-Applied Film as Part of the Glass Construction. Do Not Remove the Film.

Always protect product from contaminating substances.

Do not allow foreign substances to remain on surface of glass.

In general, the glass surfaces should be cleaned on a regular basis. The level of pollution or contaminants in the surrounding area determines the frequency.

Glass should be cleaned using soft clean cloths, chamois leathers or sponges. Use clean warm water with a mild liquid detergent. Proprietary glass cleaners may also be used.

Do not use detergents that contain either alkaline, acids or fluoride. Abrasive cleaning methods i.e. scouring pads, steel wool, and razor blades should only be used for spot cleaning, as damage to the surface may result.

Note: Never use abrasives on the filmed side of WireShield, KeraShield or other glazing with an applied film.

It is not recommended to clean the whole surface of the glass with a blade or squeegee. These instructions apply to glass products supplied by Air Louvers, not polycarbonate products.



AIR LOUVERS

800-554-6077
sales@activarcpg.com
www.activarcpg.com

SEE PAGE 2 FOR BRG
SEE PAGE 3 FOR ARM
SEE PAGE 4 FOR X-RAY GLASS

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REV A – MAY 13, 2022

GLAZING—MAINTENANCE

CLEANING & MAINTENANCE: BRG POLYCARBONATE GLAZING

Cleaning Recommendations—BRG Laminate

Periodic cleaning of BRG glazing is recommended to prolong the service life of your material. To minimize the risk of damage, use only compatible household cleaners and correct cleaning procedures as outlined below.

BRG laminate sheets are hard coated, abrasion and mar resistant polycarbonate products that offer a high degree of surface hardness and abrasion resistance. These products provide superior protection against unintentional chemical attack. However, the use of abrasive, gritty cleaners or hard cleaning implements (e.g., hard brushes, scrapers, squeegees) should be avoided to eliminate the possibility of scratching the coating.

Compatible cleaners

The following cleaning agents are compatible with BRG polycarbonate sheet products when used according to the manufacturer's recommendations:

Top Job, Joy®, Palmolive Liquid®, Windex® Ammonia free

Top Job and Joy are registered trademarks of Proctor & Gamble, Palmolive is a registered trademark of Colgate Palmolive, Windex is a registered trademark of Drackett Products.

General cleaning instructions:

- » Thoroughly pre-rinse with warm water to loosen and wash away surface residue, grit and grime.
- » Using a soft microfiber cloth or moist non-abrasive sponge, gently wash with a mild diluted soap or detergent.
- » Rinse thoroughly with lukewarm, clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth.

Removing heavy oils and tars:

- » Thoroughly pre-rinse with warm water to loosen and wash away surface residue, grit and grime.
- » With a 50/50 isopropyl alcohol-water mixture, gently rub the area with a soft non-abrasive cloth.
- » Immediately rinse thoroughly with lukewarm clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth.

TECH TIP:

The edges of coated polycarbonate sheet are not protected with an abrasion and chemical resistant hard coating. Do not allow cleaning solutions and solvents to pool along the edges for any length of time. Always rinse edges thoroughly with generous amounts of lukewarm clean water.

Removing graffiti, paint, marker, inks and glazing compounds:

- » Thoroughly pre-rinse with warm water to loosen and wash away surface residue, grit and grime.
- » Using Naphtha VM&P grade, Isopropyl Alcohol or Butyl Cellosolve™, gently rub the area with a soft, non-abrasive cloth. Do not apply solvent cleaners under direct sunlight or during high temperatures.
- » Immediately rinse thoroughly with lukewarm clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth

Removing adhesive-backed labels:

- » Isopropyl Alcohol, Naphtha VM&P grade or Kerosene will help lift stickers and adhesives.
- » Immediately rinse thoroughly with lukewarm clean water. To prevent water spots, thoroughly dry the glazing with a dry soft cloth.

Important reminders

- » Do not clean BRG glazing with any cleaners other than those on the approved, compatible list included in this guide, or those tested and found compatible.
- » Do not use abrasive cleaners.
- » Do not use high alkaline cleaners (high pH or ammoniated).
- » Do not leave cleaners sitting on BRG glazing for periods of time; rinse off immediately.
- » Do not apply cleaners under direct sunlight or at elevated temperatures.
- » Do not use scrapers, squeegees, razors or other sharp instruments as they may permanently scratch.
- » Do not dry rub or dry clean BRG glazing, as sand and dust particles clinging to the exterior of the glazing may scratch its surface. An Anti-Static Canned-Air Ionizer can reduce electro static charge buildup on glazing, and aids in reducing dirt and dust buildup that can hinder cleaning.

Removing scratches

Deep scratches and gouges made by sharp objects such as keys, screwdrivers, and knives cannot be repaired. Fine scratches may be reduced in severity or cosmetically hidden by using a buffing compound such as NOVUS® 2 Plastic Fine Scratch Remover, followed by a cleaning and polishing agent like NOVUS® 1. However, for abrasion resistant coated products, buffing the surface is not recommended. Buffing these scratched sites worsen the condition and further damage the coating. Once the coating is removed, it cannot be repaired and buffing may optically distort the window.



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CLEANING & MAINTENANCE: ARMRSHIELD (MAKROLON) GLAZING

The Following techniques for cleaning Makrolon polycarbonate sheet are based on standard industry practice. To ensure acceptability of the results, always test a sample of the material with the cleaner and technique to be used.

Guidelines:

Do rinse the sheet with warm water prior to cleaning process.

Do follow the application with a lukewarm water rinse.

Don't use abrasives or high alkaline cleaners.

Don't leave cleaners on sheet for long periods, wash immediately.

Don't apply cleaners in direct sunlight or at elevated temperatures.

Don't use scrapers, squeegees or razors.

Don't clean with gasoline.

Compatible Cleaners and Detergents: Joy , Windex with Ammonia D , Palmolive , Naphtha VM&P Grade, Isopropyl Alcohol

To Minimize Fine or Hairline Scratches: Plastic Polishes applied and removed per manufacturer instructions.

Suggested Polishes: Mirror Glaze Clear Plastic Polish, Cleaner & Detailer (by Meguiars 800-347-5700 or Meguiars.com) Novus Plastics Polish #1, #2 (by Novus Inc. 800-NOVUS60 or noscratch.com) Plexus Plastic Cleaner and Polish (by BTI Chemical Co. PlexusPlasticCleaner.com)

To Remove Masking Adhesive and Glazing Compound: Apply Naphtha VM&P grade, Kerosene or Isopropyl Alcohol with clean soft cloth. Wash immediately with soap and lukewarm water and rinse with thoroughly with clean water.

To Remove Graffiti: Naphtha VM&P grade, Isopropyl Alcohol or Butyl Cellosolve removes paint, marker ink. (Do not use in direct sunlight). Isopropyl Alcohol, Naphtha VM&P grade or Kerosene will help lift stickers and other adhesive backed labels. Wash immediately with soap and lukewarm water and rinse with thoroughly with clean water.



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OPTIONAL TEXT

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CLEANING & MAINTENANCE: LGSHIELD LEAD-LINED GLASS

X-ray lead glass has a very soft surface due to the high lead content and will scratch or stain very easily. It is extremely important that the following precautions be followed to avoid costly damage.

- 1) always wear protective eye glasses and non-slip protective glass handling gloves when handling any glass products
- 2) Never use knives, razor blades or other sharp objects to scrape or clean the x-ray lead glass
- 3) Never use any abrasive cleaners or paper towels on the lead glass as this will scratch or “fog” the x-ray lead glass
- 4) Never use strong detergents, cleaners or solvents to clean lead glass. This will help reduce chance of staining or discoloration.
- 5) Never apply any tape (ie duct, masking, electrical, etc) to x-ray lead glass as adhesive backing may cause staining.
- 6) Wipe lead glass lightly with a clean, soft, dry microfiber or cotton cloth.
- 7) Smudges or dirt not removed by wiping with dry cloth can be cleaned with distilled water or Windex but must be immediately wiped dry with a separate clean, soft, dry microfiber or cotton cloth.
- 8) Never grind near x-ray lead glass

We strongly recommends that all lead glass is transported in a secure, upright position, preferably on a glass rack or other support system to reduce the chance of injury or damage. It should also be protected from rain or moisture, due to its fragility and porous characteristics.

Inspection of acceptable characteristics

Radiation protective x-ray lead glass is a high quality specialty glass with a soft surface and fragile “non-structural” characteristic and has a “slightly imperfect” surface by nature.

X-ray lead glass has a natural yellow hue color due to its heavy metal oxide content providing excellent gamma / photon radiation shielding resistance. (radiation shielding value is directly related to thickness and density of lead glass). See specification / technical data sheet for details. X-ray safety glass will have more imperfections and debris. X-ray safety glass is permanently labeled to meet safety requirements. See specification / technical data sheet for details.



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