



McGRORY GLASS

## Radiation Shielding

### Med-X Shielding Glass Cleaning and Handling Recommendations

#### Introduction:

The shielding characteristics of Med-X shielding glass are achieved by using a glass composition, which is high in lead and barium. This makes the glass, when compared with float glass, more sensitive to chemical reactions from acidic, alkaline substances or water vapor.

Med-X shielding glass plates are protected during shipping by use of acid-free tissues and brown paper wrapping which are well sealed in a wooden case.

#### Handling Instructions for Med-X Shielding Glass:

The surfaces of Med-X shielding glass are susceptible to attack by acids and alkalis and excess humidity. The glass should therefore not be exposed to acid gasses, humidity and high temperature fluctuations combined with humidity. Since the glass is very soft (i.e. can be easily scratched), when compared to float glass, care should be taken when handling the glass. When being assembled into a window frame, care should be taken to avoid any sealing agents that contain acid and alkali substances.

When handling Med-X shielding glass, it is advisable to wear cotton gloves to avoid leaving fingerprints on the glass surface, which will be much more visible due to its high refractive index. Do not leave fingerprints on the glass surface for any lengthy period of time, especially in a humid atmosphere, as permanent staining can occur.

Keep all tapes, labels and adhesives off of the surface of the glass. The alkalis from the adhesive may attack the surface of the glass and cause permanent staining.

#### Cleaning Instructions for Med-X Shielding Glass:

General cleaning advice:

1. Do not use harsh abrasive cleaning chemicals or cleaning materials. These could abrade the surface and leave scratch marks, which cannot be removed.
2. Never allow any liquid cleaning materials to dry on the glass surface. This will leave "water marks" on the glass surface, which will be very difficult to remove.
3. Use only mild detergents.

Dependent upon the type of cleaning to be made, the following recommendations are made:

1. General cleaning for the removal of dust, film, etc. – Use a soft cotton cloth with isopropyl alcohol and clean in a smooth circular motion.
2. Cleaning difficult stains: Use a mild detergent diluted with water to the manufacturer's recommendations and clean with a soft cotton cloth. Dry the surface immediately after cleaning with a soft cotton cloth, and using another cotton cloth, clean with isopropyl alcohol as in section 1.

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