

# PROTECT-X

## Lead X-Ray Radiation Shielding Glass



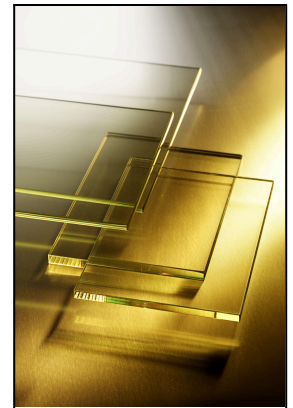
Glassopolis is a specialist in protective glass. We have been distributing and processing lead x-ray glass for over 40 years. You can trust Glassopolis for expert advice, timely and reliable quotations including freight to your doorstep and industry-leading turnaround. We maintain a significant inventory of the most common types of lead x-ray glass for immediate delivery. We will get you what you need and help you grow your business.

### PRODUCT DESCRIPTION

PROTECT-X is lead x-ray radiation shielding glass from Glassopolis. Part of the PROTECT series of products, PROTECT-X works to protect people by attenuating x-ray radiation particularly in hospital, medical and security applications.

For architectural applications it is generally specified by its 'lead equivalency', which is the degree to which it shields against radiation, as measured as the thickness of the equivalent protection from solid lead in inches or mm. The actual glass thickness can vary depending on the amount of x-ray protection needed and the lead density of any given batch.

PROTECT-X lead x-ray radiation shielding glass is typically ordered in cut-to-size pieces by glass contractors, radiation room contractors and OEM manufacturers.



### PRODUCT CHARACTERISTICS

PROTECT-X lead x-ray radiation shielding glass is available in various sizes and thicknesses. The most common applications are:

<u>Lead (Pb) Equivalency</u>	<u>Typical Glass Thickness inch (mm)</u>	<u>Typical Application</u>
> 1/16" (2.3 mm)	~ 3/8" (10mm)	Most X-Ray applications
> 1/8" (3.2 mm)	~ 5/8" (15 mm)	Where more protection is required

- High optical grade
- Lead equivalency measured at 150kV
- Over 55% lead content
- Light transmission >89%
- Weight: 10mm thickness = 9.2 lbs/ft<sup>2</sup>
- Weight: 15mm thickness = 13.8 lbs/ft<sup>2</sup>
- Thickness tolerance: +/- 2mm
- Sheet size up to 47" x 98"
- Available as a filmed or laminated glass for impact safety applications
- Available as an insulated glass unit for thermal applications

Call us with the requirements for your project and we will supply you with the exact product you need.

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## APPLICATIONS

Typical applications for Lead X-Ray Radiation Shielding includes medical facilities, laboratories, airports and security screening.

## STORAGE & HANDLING

Radiation shielding glass should not be exposed to humidity or temperature fluctuations or acidic gas. Keep dry.

Lead glass is denser than most glass. Lead glass can be cut by an experienced glazier, but special safety precautions are required. Generally Glassopolis sells lead x-ray glass already cut-to-size.

## INSTALLATION

Care must be taken without fail to ensure that the radiation protection on the wall side and the radiation shielding glass overlap to ensure total and complete protection against radiation. There should be no gaps without radiation protection, i.e. radiation shielding materials should not be butted up to each other "edge to edge". The radiation shielding materials must always overlap.

Glassopolis can supply radiation protection frames to match the Lead X-Ray glass. Call us for details and a quote.

Some Lead X-Ray glass is shipped with a tinted protective film. Remove the protective film only just before installing it. Do not use any sharp objects to remove. Some safety versions of the glass come with permanent clear safety film applied, do not remove and be careful not to scratch this film during installation and use.

When installing, care should be taken that the sealing agents do not contain any acid or alkaline substances (e.g. acetic acid, ammonia). Labels may cause staining on the glass surface by the reaction of the adhesive. When masking tape is used in caulking, remove it immediately after caulking and wipe off any traces with alcohol.

## MAINTENANCE & CARE

In view of the lead oxide content the surfaces of Lead X-Ray Radiation Shielding are susceptible to scratches and attack by acids and alkalis. Do not use harsh abrasive cleaning materials which can scratch the surface. Use only water, mild detergents, non-abrasive cleaning agents and soft cloth. Always dry completely. Do not allow water to dry on the surface of the glass. If the glass becomes dirty, polish the surface with a dry clean cloth with alcohol. Immediately remove all traces of alcohol with a new dry and clean cloth. Always refer to the manufacturer for detailed cleaning procedures.

Lead X-Ray glass can be disinfected by commercially available disinfectants approved by the manufacturer. A disinfection by UV exposure (solarization) is also possible. Immediately wipe off water in case the glass becomes wet.

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