

# Specification — Laminated Lead Glass

Lead glass is available in a variety of radiation shielding levels and serves as a viewing medium where clear visibility of the treatment area is required.

## Laminated Lead Glass - safety glazing

### GENERAL:

Laminated lead glass is used to allow viewing the patient area while radiation is present and where a safety label is required by the application. The material is placed in a lead shielded frame to hold it in place in the wall.

### PRODUCT DETAILS:

Lead Glass is a lead barium glass with more than 60 percent heavy metal oxide including at least 55 percent lead oxide (PbO). This glass is laminated to a 3mm layer of float glass using a PVB interlayer. This allows the glass to be shatter resistant.

It meets Federal Standard DD-G-451, Type 1, ANSI Z97.1-1984 and 16CFR1201 Cat. II. All glass surfaces are mirror polished. This special quality glass is well-qualified to meet the high standards of stringent safety regulations established in the medical, scientific, as well as nuclear fields around the world.

This glass is permanently marked with the appropriate CPSC safety label.

### EXECUTION:

Lead glass, cushioned by resilient materials, must be free to "float in the opening" (i.e., it

should have adequate clearance around all edges and laterally) so it does not directly touch the framing system.

Obtain compatible glazing sealant or glazing tape, setting blocks and edge blocking material from a local source. If the frame is fire labeled, check with the manufacturer for special glazing requirements. Glass should be set on two identical neoprene, EPDM, silicone or other compatible elastomeric setting blocks. Use spacers inside and out where local practice and job requirements dictate.

Provide edge blocking where local practice requires. Use compatible sealant or glazing tape. Clean only with a soft, non-abrasive cloth.

**IMPORTANT** - Check glass for damage immediately upon arrival at site.

**NOTE:** For fire-labeled or safety-glazed openings, special considerations apply. Interpretation of building and fire codes varies depending on locale. Consult with local authorities on the proper fire-rated or safety glazing procedures. Labeled wire glass or ceramic glazing such as Firelite™ must be used in the view window in conjunction with lead glass for labeled openings. LX-57B lead glass is available in a laminated form for safety glazing applications.

PROPERTIES	Lead Glass Type	
		11LG
Thickness (mm) (Approx.)		11mm
Thickness (in.) (Approx.)		7/16"
Max. Lead Equivalent (mm)		1.59mm
Max. Lead Equivalent (in.)		1/16"
Densities (gm/cm)		4.36
Weight (lbs/sq.ft)		8
X-Ray Peak Voltage (kv)		150
Refractive Index (Typ.)		1.79
Transmission (500 - 600nm)		87.8%
<b>SIZE AND TOLERANCE:</b>		
Minimum size	_____	any size on request
Maximum size	_____	96" x 48" (2438.4mm x 1219.2 mm)



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