

# Specification — 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.

## LX-57B Lead Glass

### GENERAL:

Glass is used to allow viewing the patient area while radiation is present. Glass will be installed in a lead lined frame.

### 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). It meets Federal Standard DD-G-451, Type 1 and is not tempered. Both 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. Manufactured by a continuous and automatic process, this glass is able to maintain a rigidly controlled level of physical properties.

### 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.

\*\* "Seeds" or minute air bubbles exist inside LX-57B because it is made of special glass materials. This does not affect its radiation shielding properties.

PROPERTIES	Lead Glass Type		
	8LG	11LG	14LG
Thickness (mm) (Approx.)	8mm	11mm	14mm
Thickness (in.) (Approx.)	5/16"	7/16"	9/16"
Max. Lead Equivalent (mm)	2.0	2.5	3.2
Max. Lead Equivalent (in.)	5/64"	3/32"	1/8"
Densities (gm/cm)	4.36	4.36	4.36
Weight (lbs/sq.ft)	7.14	9.82	12.5
X-Ray Peak Voltage (kv)	150	150	200
Refractive Index (Typ.)	1.71	1.71	1.71
Transmission (500 - 600nm)	87.8%	87.8%	87.8%

**SIZE AND TOLERANCE:**  
 Minimum size \_\_\_\_\_ any size on request  
 Maximum size \_\_\_\_\_ 96" x 48" (2438.4mm x 1219.2 mm)



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